# Open Source Used In Appdynamics_Webserver_Agent 24.5.0-2237

**Cisco Systems, Inc.**
www.cisco.com

Cisco has more than 200 offices worldwide.
Addresses, phone numbers, and fax numbers
are listed on the Cisco website at
www.cisco.com/go/offices.

Text Part Number: 78EE117C99-2011486770

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

**In your requests please include the following reference number 78EE117C99-2011486770**

# Contents


**1.1 libjpeg 6b**
- 1.1.1 Notifications
- 1.1.2 Available under license

**1.2 javax-inject 1**
- 1.2.1 Available under license

**1.3 commons-math 2.1**
- 1.3.1 Available under license

**1.4 slf4j 1.6.6**
- 1.4.1 Available under license

**1.5 annotations 13.0**
- 1.5.1 Available under license

**1.6 listenablefuture 9999.0-empty-to-avoid-conflict-with-guava**

**1.7 failureaccess 1.0.1**

**1.8 giflib 5.2.1**
- 1.8.1 Available under license

**1.9 xerces-j 2.12.2**
- 1.9.1 Available under license

**1.10 commons-io 2.8.0**
- 1.10.1 Available under license

**1.11 httpcomponents-client 4.5.13**
- 1.11.1 Available under license

**1.12 boost 1.75.0**
- 1.12.1 Available under license

**1.13 httpcomponents-core 4.4.13**
- 1.13.1 Available under license

**1.14 httpcore-nio 4.4.13**

1.14.1 Available under license
**1.15 httpclient-cache 4.5.13**
1.15.1 Available under license
**1.16 commons-logging 1.2**
1.16.1 Available under license
**1.17 commons-codec 1.14**
1.17.1 Available under license
**1.18 httpcomponents-mime 4.5.12**
1.18.1 Available under license
**1.19 commons-codec 1.15**
1.19.1 Available under license
**1.20 asm 9.0**
1.20.1 Available under license
**1.21 lcms 2.12**
1.21.1 Available under license
**1.22 zeromq 4.3.4**
1.22.1 Available under license
**1.23 namespace 1.4.01**
1.23.1 Available under license
**1.24 log4j-api 2.17.1**
1.24.1 Available under license
**1.25 apache-log4j 2.17.1**
1.25.1 Available under license
**1.26 log4j-jcl 2.17.1**
1.26.1 Available under license
**1.27 dom 1.0**
1.27.1 Available under license
**1.28 dagger 2.4**
1.28.1 Available under license
**1.29 protobuf-java-format 1.2**
1.29.1 Available under license
**1.30 annotations 4.1.1.4**
1.30.1 Available under license
**1.31 error_prone_annotations 2.3.3**
1.31.1 Available under license
**1.32 free-type 2.12.1**
1.32.1 Available under license
**1.33 protobuf-java 3.19.6**
1.33.1 Available under license

**1.34 jctools-core 4.0.1**
1.34.1 Available under license
**1.35 gson 2.10.1**
1.35.1 Available under license
**1.36 commons-fileupload 1.5**
1.36.1 Available under license
**1.37 kotlin 1.6.0**
1.37.1 Available under license
**1.38 apr 1.7.2**
1.38.1 Available under license
**1.39 error_prone_annotations 2.18.0**
1.39.1 Available under license
**1.40 opentelemetry-proto 0.11.0**
1.40.1 Available under license
**1.41 xml-apis 1.4.01**
1.41.1 Available under license
**1.42 okhttp 4.11.0**
1.42.1 Available under license
**1.43 protobuf 22.2**
1.43.1 Available under license
**1.44 animal-sniffer-annotation 1.23**
1.44.1 Available under license
**1.45 j2objc-annotations 2.8**
1.45.1 Available under license
**1.46 guava 32.0.1-jre**
1.46.1 Available under license
**1.47 log4cxx 1.1.0**
1.47.1 Available under license
**1.48 opentelemetry-sdk-extension-autoconfigure-spi 1.29.0**
1.48.1 Available under license
**1.49 guava 32.0.1-android**
1.49.1 Available under license
**1.50 opentelemetry-semconv 1.29.0-alpha**
1.50.1 Available under license
**1.51 libpng 1.6.39**
1.51.1 Available under license
**1.52 okio 3.6.0**
1.52.1 Available under license
**1.53 openjdk-jre 11.0.21u9**

1.53.1 Available under license
**1.54 openjdk 11.0.21**
1.54.1 Available under license
**1.55 jline 3.20.0**
1.55.1 Available under license
**1.56 zt 1.16**
1.56.1 Available under license
**1.57 jre 11.0.21u9**
1.57.1 Available under license
**1.58 jackson-annotations 2.15.4**
1.58.1 Available under license
**1.59 jackson 2.15.4**
1.59.1 Available under license
**1.60 jackson-databind 2.15.4**
1.60.1 Available under license
**1.61 jackson-dataformat-yaml 2.15.4**
1.61.1 Available under license
**1.62 expat 2.6.2**
1.62.1 Available under license
**1.63 servlet-api 3.0.1**
1.63.1 Available under license
**1.64 disruptor 2.11.2.3**
1.64.1 Available under license
**1.65 perfmark-api 0.17.0**
1.65.1 Available under license
**1.66 jsr305 3.0.2**
1.66.1 Available under license
**1.67 kotlin 9.0**
1.67.1 Available under license
**1.68 disruptor 2.11.2.3**
1.68.1 Available under license

# 1.1 libjpeg 6b

## 1.1.1 Notifications :

This software is based in part on the work of the Independent JPEG Group.

## 1.1.2 Available under license :

The Independent JPEG Group's JPEG software

==========

README for release 6b of 27-Mar-1998
==========

This distribution contains the sixth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION
ROADMAP
==========

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.
Programmer and internal documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.

filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images.
JPEG is intended for compressing
"real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the
hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG

processes, and "rdjpgcom" and "wrjpgcom", two simple applications for
inserting and extracting textual comments
 in JFIF files.

The emphasis in designing this software has been on achieving portability and
flexibility, while also making it fast enough to be useful.  In particular,
the software is not intended to be read as a tutorial on JPEG.  (See the
REFERENCES section for introductory material.)  Rather, it is intended to
be reliable, portable, industrial-strength code.  We do not claim to have
achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products.
No royalty is required, but we do ask for an acknowledgement in product
documentation, as described under LEGAL ISSUES.

LEGAL ISSUES
============

In plain English:

1. We don't promise that this software works.  (But if you find any bugs,
  please let us know!)
2. You can use this software for whatever you want.  You don't have to pay us.
3. You may not pretend that you wrote this software.  If you use it in a
  program, you
 must acknowledge somewhere in your documentation that
  you've used the IJG code.

In legalese:

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

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

Permission is hereby granted to use, copy, modify, and distribute this
software (or portions thereof) for any purpose, without fee, subject to these
conditions:
(1) If any part of the source code for this software is distributed, then this
README file must be included, with this copyright and no-warranty notice
unaltered; and any additions, deletions, or changes to the original files
must be clearly indicated in accompanying documentation.
(2) If only executable code is distributed,

then the accompanying
documentation must state that "this software is based in part on the work of
the Independent JPEG Group".
(3) Permission for use of this software is granted only if the user accepts
full responsibility for any undesirable consequences; the authors accept
NO LIABILITY for damages of any kind.

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

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

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

ansi2knr.c is included in this distribution by permission of
L. Peter Deutsch,
sole proprietor of its copyright holder, Aladdin Enterprises of Menlo Park, CA.
ansi2knr.c is NOT covered by the above copyright and conditions, but instead
by the usual distribution terms of the Free Software Foundation; principally,
that you must include source code if you redistribute it. (See the file
ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part
of any program generated from the IJG code, this does not limit you more than
the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf.
It is copyright by the Free Software Foundation but is freely distributable.
The same holds for its supporting scripts (config.guess, config.sub,
ltconfig, ltmain.sh). Another support script, install-sh, is copyright
by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by
patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic
coding cannot
legally be used without obtaining one or more licenses. For this reason,
support for arithmetic coding has been removed from the free JPEG software.
(Since arithmetic coding provides only a marginal gain over the unpatented
Huffman mode, it is unlikely that very many implementations will support it.)
So far as we are aware, there are no patent restrictions on the remaining
code.

The IJG distribution formerly included code to read and write GIF files.

To avoid entanglement with the Unisys LZW patent, GIF reading support has
been removed altogether, and the GIF writer has been simplified to produce
"uncompressed GIFs".  This technique does not use the LZW algorithm; the
resulting GIF files are larger than usual, but are readable by all standard
GIF decoders.

We are required to state that
  "The Graphics Interchange Format(c) is the Copyright property of
  CompuServe Incorporated.  GIF(sm) is a Service Mark property of
  CompuServe Incorporated."

REFERENCES
==========

We
 highly recommend reading one or more of these references before trying to
understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is
 Wallace, Gregory K.  "The JPEG Still Picture Compression Standard",
 Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44.
(Adjacent articles in that issue discuss MPEG motion picture compression,
applications of JPEG, and related topics.)  If you don't have the CACM issue
handy, a PostScript file containing a revised version of Wallace's article is
available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz.  The file (actually
a preprint for an article that appeared in IEEE Trans. Consumer Electronics)
omits the sample images that appeared in CACM, but it includes corrections
and some added material.  Note: the Wallace article is copyright ACM and IEEE,
and it may not be used for commercial purposes.

A somewhat less technical, more
 leisurely introduction to JPEG can be found in
"The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by
M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1.  This book provides
good explanations and example C code for a multitude of compression methods
including JPEG.  It is an excellent source if you are comfortable reading C
code but don't know much about data compression in general.  The book's JPEG
sample code is far from industrial-strength, but when you are ready to look
at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data
Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published
by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1.  Price US$59.95, 638 pp.
The book includes the complete text of the ISO JPEG standards (DIS 10918-1
and draft DIS 10918-2).  This is by far the most complete exposition of JPEG
in existence, and we highly recommend it.

The
JPEG standard itself is not available electronically; you must order a
paper copy through ISO or ITU. (Unless you feel a need to own a certified
official copy, we recommend buying the Pennebaker and Mitchell book instead;
it's much cheaper and includes a great deal of useful explanatory material.)
In the USA, copies of the standard may be ordered from ANSI Sales at (212)
642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI
doesn't take credit card orders, but Global does.) It's not cheap: as of
1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7%
shipping/handling. The standard is divided into two parts, Part 1 being the
actual specification, while Part 2 covers compliance testing methods. Part 1
is titled "Digital Compression and Coding of Continuous-tone Still Images,
Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS
10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of
Continuous-tone Still
Images, Part 2: Compliance testing" and has document
numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3,
a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG
currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file
format. For the omitted details we follow the "JFIF" conventions, revision
1.02. A copy of the JFIF spec is available from:
Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314
A PostScript version of this document is available by FTP at
ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text
version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing
the figures.

The TIFF 6.0 file format specification can be obtained by FTP from
ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation
scheme
found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems.
IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6).
Instead, we recommend the JPEG design proposed by TIFF Technical Note #2
(Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or
from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision
of the TIFF spec will replace the 6.0 JPEG design with the Note's design.
Although IJG's own code does not support TIFF/JPEG, the free libtiff library
uses our library to implement TIFF/JPEG per the Note. libtiff is available
from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS
==========

The "official" archive site for this software is ftp.uu.net (Internet
address 192.48.96.9). The most recent released version can always be found
there in directory graphics/jpeg. This particular version will be archived
as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't
have
direct Internet access, UUNET's archives are also available via UUCP; contact
help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only
ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from
the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or
on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12
"JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net
release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of
general information about JPEG. It is updated constantly and therefore is
not included in this distribution. The FAQ is posted every two weeks to
Usenet newsgroups comp.graphics.misc, news.answers, and other groups.
It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/
and other news.answers
archive sites, including the official news.answers
archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.
If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu
with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE
==========

Numerous viewing and image manipulation programs now support JPEG. (Quite a
few of them use this library to do so.) The JPEG FAQ described above lists
some of the more popular free and shareware viewers, and tells where to
obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free
PBMPLUS software, which provides many useful operations on PPM-format image
files. In particular, it can convert PPM images to and from a wide range of
other formats, thus making cjpeg/djpeg considerably more useful. The latest
version is distributed by the NetPBM group, and is available from numerous

sites,
notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.
Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is;
you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford,
is available from ftp://havefun.stanford.edu/pub/jpeg/. This program
is designed for research and experimentation rather than production use;
it is slower, harder to use, and less portable than the IJG code, but it
is easier to read and modify. Also, the PVRG code supports lossless JPEG,
which we do not. (On the other hand, it doesn't do progressive JPEG.)

## FILE FORMAT WARS

Some JPEG programs produce files that are not compatible with our library.
The root of the problem is that the ISO JPEG committee failed to specify a
concrete file format. Some vendors "filled in the blanks" on their own,
creating proprietary formats that no one else could read.
(For example, none
of the early commercial JPEG implementations for the Macintosh were able to
exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format
has been agreed to by a number of major commercial JPEG vendors, and it has
become the de facto standard. JFIF is a minimal or "low end" representation.
We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF
Technical Note #2) for "high end" applications that need to record a lot of
additional data about an image. TIFF/JPEG is fairly new and not yet widely
supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF.
SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should
be able to read the most common variant of SPIFF. SPIFF has some technical
advantages over JFIF, but its major claim to fame is simply that it is an
official standard rather than an informal one. At this point it is unclear
whether
SPIFF will supersede JFIF or whether JFIF will remain the de-facto
standard. IJG intends to support SPIFF once the standard is frozen, but we
have not decided whether it should become our default output format or not.
(In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist.
We have little or no sympathy for the existence of these formats. Indeed,
one of the original reasons for developing this free software was to help
force convergence on common, open format standards for JPEG files. Don't
use a proprietary file format!

TO DO
=====

The major thrust for v7 will probably be improvement of visual quality.
The current method for scaling the quantization tables is known not to be
very good at low Q values.  We also intend to investigate block boundary
smoothing, "poor man's variable quantization", and other means of improving
quality-vs-file-size performance without
 sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG
Part 3 extensions --- principally, variable quantization and the SPIFF file
format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

# 1.2 javax-inject 1

## 1.2.1 Available under license :

Apache License

Version 2.0, January 2004

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

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

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

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

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

"You"

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

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

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

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

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

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

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

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable

copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

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

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

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or,

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

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

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

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

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

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental,

or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

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

END OF TERMS AND CONDITIONS

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

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

Copyright [yyyy] [name of copyright owner]

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

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

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
/*
* Copyright (C) 2009 The JSR-330 Expert Group
*

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

# 1.3 commons-math 2.1

## 1.3.1 Available under license :

Apache Commons Math
Copyright 2001-2010 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).

==========

The LinearConstraint, LinearObjectiveFunction, LinearOptimizer,
RelationShip, SimplexSolver and SimplexTableau classes in package
org.apache.commons.math.optimization.linear include software developed by
Benjamin McCann (http://www.benmccann.com) and distributed with
the following copyright: Copyright 2009 Google Inc.

==========

This product includes software developed by the
University of Chicago, as Operator of Argonne National
Laboratory.
The LevenbergMarquardtOptimizer class in package
org.apache.commons.math.optimization.general includes software
translated from the lmder, lmpar and qrsolv Fortran routines
from the Minpack package
Minpack Copyright
 Notice (1999) University of Chicago.  All rights reserved

==========

The GraggBulirschStoerIntegrator class in package
org.apache.commons.math.ode.nonstiff includes software translated
from the odex Fortran routine developed by E. Hairer and G. Wanner.
Original source copyright:
Copyright (c) 2004, Ernst Hairer

==========

The EigenDecompositionImpl class in package
org.apache.commons.math.linear includes software translated
from some LAPACK Fortran routines. Original source copyright:
Copyright (c) 1992-2008 The University of Tennessee. All rights reserved.
==========

The MersenneTwister class in package org.apache.commons.math.random
includes software translated from the 2002-01-26 version of
the Mersenne-Twister generator written in C by Makoto Matsumoto
and Takuji
Nishimura. Original source copyright:
Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura,
All rights reserved
==========

The complete text of licenses and disclaimers associated with the the original
sources enumerated above at the time of code translation are in the LICENSE.txt
file.

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

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

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

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

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

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

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

source, and configuration files.

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

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

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

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

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

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

3. Grant

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

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

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must

include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside

or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

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

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

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

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

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

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

END OF TERMS AND CONDITIONS

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

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

Copyright [yyyy] [name of copyright owner]

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

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

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

APACHE COMMONS MATH DERIVATIVE WORKS:

The Apache commons-math library includes a number of subcomponents
whose implementation is derived from original sources written
in C or Fortran. License terms of the original sources
are reproduced below.

==========

For the lmder, lmpar and qrsolv Fortran routine from minpack and translated in
the LevenbergMarquardtOptimizer
class in package
org.apache.commons.math.optimization.general
Original source copyright and license statement:

Minpack Copyright Notice (1999) University of Chicago. All rights reserved

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

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

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

3. The end-user documentation included with the
redistribution, if any, must include the following
acknowledgment:

"This product includes software developed by the
University of Chicago, as Operator of Argonne National
Laboratory.

Alternately, this acknowledgment may appear in the
software
itself, if and wherever such third-party acknowledgments
normally appear.

4. WARRANTY DISCLAIMER. THE SOFTWARE IS SUPPLIED "AS IS"
WITHOUT WARRANTY OF ANY KIND. THE COPYRIGHT HOLDER, THE
UNITED STATES, THE UNITED STATES DEPARTMENT OF ENERGY, AND
THEIR EMPLOYEES: (1) DISCLAIM ANY WARRANTIES, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE
OR NON-INFRINGEMENT, (2) DO NOT ASSUME ANY LEGAL LIABILITY
OR RESPONSIBILITY FOR THE ACCURACY, COMPLETENESS, OR
USEFULNESS OF THE SOFTWARE, (3) DO NOT REPRESENT THAT USE OF
THE SOFTWARE WOULD NOT INFRINGE PRIVATELY OWNED RIGHTS, (4)
DO NOT WARRANT THAT THE SOFTWARE WILL FUNCTION
UNINTERRUPTED, THAT IT IS ERROR-FREE OR THAT ANY ERRORS WILL

BE CORRECTED.

5. LIMITATION OF LIABILITY. IN NO EVENT WILL THE COPYRIGHT
HOLDER, THE UNITED STATES, THE UNITED STATES DEPARTMENT OF
ENERGY, OR THEIR EMPLOYEES: BE LIABLE FOR ANY INDIRECT,
INCIDENTAL, CONSEQUENTIAL,
SPECIAL OR PUNITIVE DAMAGES OF
ANY KIND OR NATURE, INCLUDING BUT NOT LIMITED TO LOSS OF
PROFITS OR LOSS OF DATA, FOR ANY REASON WHATSOEVER, WHETHER
SUCH LIABILITY IS ASSERTED ON THE BASIS OF CONTRACT, TORT
(INCLUDING NEGLIGENCE OR STRICT LIABILITY), OR OTHERWISE,
EVEN IF ANY OF SAID PARTIES HAS BEEN WARNED OF THE
POSSIBILITY OF SUCH LOSS OR DAMAGES.
==========

Copyright and license statement for the odex Fortran routine developed by
E. Hairer and G. Wanner and translated in GraggBulirschStoerIntegrator class
in package org.apache.commons.math.ode.nonstiff:

Copyright (c) 2004, Ernst Hairer

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

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

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

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

Copyright

and license statement for the original lapack fortran routines
translated in EigenDecompositionImpl class in package
org.apache.commons.math.linear:

Copyright (c) 1992-2008 The University of Tennessee.  All rights reserved.

$COPYRIGHT$

Additional copyrights may follow

$HEADER$

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

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

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

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

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

Copyright and license statement for the original Mersenne twister C
routines
translated in MersenneTwister class in package
org.apache.commons.math.random:

Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura,

All rights reserved.

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

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

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

3. The names of its contributors may not be used to endorse or promote products derived from this software without specific prior written permission.

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

# 1.4 slf4j 1.6.6

## 1.4.1 Available under license :

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

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

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

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

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are

under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

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

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

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

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

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

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

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

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

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

incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

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

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You
must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices
within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.
You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.
5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding
such Contributions.

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

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

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence),

contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

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

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

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

Copyright [yyyy] [name of copyright owner]

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

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

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

```
/*
* Copyright 2001-2004 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
```

*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
Copyright (c) 2004-2011 QOS.ch
All rights reserved.

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

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

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

# 1.5 annotations 13.0

## 1.5.1 Available under license :

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

/*
* Copyright 2006 Sascha Weinreuter
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*     http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/intellij/lang/annotations/Identifier.java
* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/intellij/lang/annotations/Pattern.java
* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/intellij/lang/annotations/Language.java
*
 /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/intellij/lang/annotations/PrintFormat.java
* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/intellij/lang/annotations/RegExp.java
* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/intellij/lang/annotations/Subst.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2000-2013 JetBrains s.r.o.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/jetbrains/annotations/Contract.java
* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/intellij/lang/annotations/Flow.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2000-2009 JetBrains s.r.o.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/jetbrains/annotations/Nls.java
* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/jetbrains/annotations/Nullable.java
* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/jetbrains/annotations/NonNls.java
*
/opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/jetbrains/annotations/PropertyKey.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2000-2012 JetBrains s.r.o.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/jetbrains/annotations/TestOnly.java
* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/intellij/lang/annotations/JdkConstants.java
* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/jetbrains/annotations/NotNull.java
*

/opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/intellij/lang/annotations/MagicConstant.java

# 1.6 listenablefuture 9999.0-empty-to-avoid-conflict-with-guava

# 1.7 failureaccess 1.0.1

# 1.8 giflib 5.2.1

## 1.8.1 Available under license :

The GIFLIB distribution is Copyright (c) 1997  Eric S. Raymond

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

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

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

# 1.9 xerces-j 2.12.2

## 1.9.1 Available under license :

Apache XML Commons Resolver
Copyright 2006 The Apache Software Foundation.

This product includes software developed at

The Apache Software Foundation http://www.apache.org/

Portions of this code are derived from classes placed in the
public domain by Arbortext on 10 Apr 2000. See:
http://www.arbortext.com/customer_support/updates_and_technical_notes/catalogs/docs/README.htm

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

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

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

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

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

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

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

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

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

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from)

the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

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

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

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

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

as
of the date such litigation is filed.

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

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must

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

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

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work

by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

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

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

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

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

END OF TERMS AND CONDITIONS

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

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

Copyright [yyyy] [name of copyright owner]

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

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

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

```
=========================================================================
==  NOTICE file corresponding to section 4(d) of the Apache License,   ==
==  Version 2.0, in this case for the Apache Xerces Java distribution. ==
=========================================================================
```

Apache Xerces Java
Copyright 1999-2022 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Portions of this software were originally based on the following:
- software copyright (c) 1999, IBM Corporation., http://www.ibm.com.
- software copyright (c) 1999, Sun Microsystems., http://www.sun.com.
- voluntary contributions made by Paul Eng on behalf of the
  Apache Software Foundation that were originally developed at iClick, Inc.,
  software copyright (c) 1999.

```
=========================================================================
==  NOTICE file corresponding to section 4(d) of the Apache License,   ==
==  Version 2.0, in this case for the Apache Xalan Java distribution.  ==
=========================================================================
```

Apache Xalan (Xalan serializer)
Copyright 1999-2012 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Portions of this software was originally based on the following:
- software copyright (c) 1999-2002, Lotus Development Corporation.,
  http://www.lotus.com.
- software copyright (c) 2001-2002, Sun Microsystems.,
  http://www.sun.com.
- software copyright (c) 2003, IBM Corporation.,
  http://www.ibm.com.

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

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

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

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

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

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

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

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

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

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

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

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

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

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their

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

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

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must

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

You may add Your own
copyright statement to Your modifications and
may provide additional or different license terms and conditions

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

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

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

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

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

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole

responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

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

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

Copyright [yyyy] [name of copyright owner]

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

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

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

# 1.10 commons-io 2.8.0

## 1.10.1 Available under license :

Apache Commons IO
Copyright 2002-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

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

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

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

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

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

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

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

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

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

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

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally

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

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

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

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

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

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

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

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

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

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

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

content of the NOTICE file.

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

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

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

END OF TERMS AND CONDITIONS

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

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

Copyright [yyyy] [name of copyright owner]

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

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

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

# 1.11 httpcomponents-client 4.5.13

## 1.11.1 Available under license :

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

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

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

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

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

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

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

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

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

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

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

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

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

3. Grant of Patent License. Subject to the terms and conditions of this License,

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

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

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

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

that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

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

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

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

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

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

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

END OF TERMS AND CONDITIONS

==========

This project includes Public Suffix List copied from
<https://publicsuffix.org/list/effective_tld_names.dat>
licensed under the terms of the Mozilla Public License, v. 2.0

Full license text: <http://mozilla.org/MPL/2.0/>

Mozilla Public License Version 2.0
==========

1. Definitions
---

1.1. "Contributor"
means each individual or legal entity that creates, contributes to
the creation of, or owns Covered Software.

1.2. "Contributor Version"
means the combination of the Contributions of others (if any) used
by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
means Covered Software of a particular Contributor.

1.4. "Covered Software"
means Source Code
Form to which the initial Contributor has attached
the notice in Exhibit A, the Executable Form of such Source Code
Form, and Modifications of such Source Code Form, in each case
including portions thereof.

1.5. "Incompatible With Secondary Licenses"
means

(a) that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

(b) that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. "Executable Form"
means any form of the work other than Source Code Form.

1.7. "Larger Work"
means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. "License"
means this document.

1.9. "Licensable"
means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. "Modifications"
means any of the following:

(a) any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

(b) any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor
means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"
means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"
means the form of the work preferred for making modifications.

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

2. License Grants and Conditions
---

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark)
Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its
Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

(a) for any code that a Contributor has removed from Covered Software; or

(b) for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

(c) under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities
---

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this

License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any

such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation
---

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination
---

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all

end user license agreements (excluding distributors and resellers) which
have been validly granted by You or Your distributors under this License
prior to termination shall survive termination.

```
************************************************************************
*                                                                      *
*  6. Disclaimer of Warranty                                           *
*  -------------------------                                           *
*                                                                      *
*  Covered Software is provided under this License on an "as is"       *
*  basis, without warranty of any kind, either expressed, implied, or  *
*  statutory, including, without limitation, warranties that the       *
*  Covered Software is
 free of defects, merchantable, fit for a        *
*  particular purpose or non-infringing. The entire risk as to the     *
*  quality and performance of the Covered Software is with You.        *
*  Should any Covered Software prove defective in any respect, You     *
*  (not any Contributor) assume the cost of any necessary servicing,   *
*  repair, or correction. This disclaimer of warranty constitutes an   *
*  essential part of this License. No use of any Covered Software is   *
*  authorized under this License except under this disclaimer.         *
*                                                                      *
************************************************************************

************************************************************************
*                                                                      *
*  7. Limitation of Liability                                          *
*  --------------------------                                          *
*
                                                                       *
*  Under no circumstances and under no legal theory, whether tort      *
*  (including negligence), contract, or otherwise, shall any           *
*  Contributor, or anyone who distributes Covered Software as          *
*  permitted above, be liable to You for any direct, indirect,         *
*  special, incidental, or consequential damages of any character      *
*  including, without limitation, damages for lost profits, loss of    *
*  goodwill, work stoppage, computer failure or malfunction, or any    *
*  and all other commercial damages or losses, even if such party      *
*  shall have been informed of the possibility of such damages. This   *
*  limitation of liability shall not apply to liability for death or   *
*  personal injury resulting from such party's negligence to the       *
*  extent applicable law prohibits such limitation. Some               *
*  jurisdictions do not allow the exclusion or limitation
 of          *
*  incidental or consequential damages, so this exclusion and          *
*  limitation may not apply to You.                                    *
*                                                                      *
************************************************************************
```

8. Litigation
-------------

Any litigation relating to this License may be brought only in the
courts of a jurisdiction where the defendant maintains its principal
place of business and such litigation shall be governed by laws of that
jurisdiction, without reference to its conflict-of-law provisions.
Nothing in this Section shall prevent a party's ability to bring
cross-claims or counter-claims.

9. Miscellaneous
----------------

This License represents the complete agreement concerning the subject
matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the extent
necessary to make it enforceable. Any law or regulation
 which provides
that the language of a contract shall be construed against the drafter
shall not be used to construe this License against a Contributor.

10. Versions of the License
---------------------------

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
10.3, no one other than the license steward has the right to modify or
publish new versions of this License. Each version will be given a
distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version
of the License under which You originally received the Covered Software,
or under the terms of any subsequent version published by the license
steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to
create a new license for such software, you may create and use a
modified version of this License if you rename the license and remove
any references to the name of the license
 steward (except to note that
such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses

If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
---

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice
---

This Source Code Form is "Incompatible With Secondary Licenses", as defined by the Mozilla Public License, v. 2.0.
Apache HttpComponents Client
Copyright 1999-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

# 1.12 boost 1.75.0

## 1.12.1 Available under license :

////
Copyright 2018, 2019 Peter Dimov

Distributed under the Boost Software License, Version 1.0.

See accompanying file LICENSE_1_0.txt or copy at
http://www.boost.org/LICENSE_1_0.txt
////

[#copyright]
# Copyright and License

:idprefix:

This documentation is copyright 2018, 2019 Peter Dimov and is distributed under
the http://www.boost.org/LICENSE_1_0.txt[Boost Software License, Version 1.0].
////
Copyright 2018 Peter Dimov

Distributed under the Boost Software License, Version 1.0.

See accompanying file LICENSE_1_0.txt or copy at
http://www.boost.org/LICENSE_1_0.txt
////

[#copyright]
# Copyright and License
:idprefix:

This documentation is

* Copyright 2003-2017 Beman Dawes
* Copyright 2018 Peter Dimov

and is distributed under the http://www.boost.org/LICENSE_1_0.txt[Boost Software License, Version 1.0].
The MIT License (MIT)

Copyright (c) 2014 fqiang

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

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

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

---

This program, "bzip2", the associated library "libbzip2", and all
documentation, are copyright (C) 1996-2019 Julian R Seward.  All
rights reserved.

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

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

2. The origin of this software must not be misrepresented; you must
  not claim that you wrote the original software.  If you use this
  software in a product, an acknowledgment in the product
  documentation would be appreciated but is not required.

3. Altered source versions must be plainly marked as such, and must
  not be misrepresented as being the original software.

4. The name of the author may not be used to endorse or promote
  products derived from this software without specific
 prior written
  permission.

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

Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

---

The following people hereby grant permission to replace all existing
licenses on their contributions to Boost with the Boost Software
License, Version 1.0. (boostinspect:nolicense boostinspect:nocopyright)

Aleksey Gurtovoy (agurtovoy@meta-comm.com)
Andrei Alexandrescu (andrewalex - at - hotmail.com) (See Boost list message of August 12, 2004 11:06:58 AM EST)
Andrew Lumsdaine ()

Anthony Williams (anthony -at- justsoftwaresolutions.co.uk)
Beman Dawes (bdawes@acm.org)
Brad King (brad.king -at- kitware.com) (See Boost list message of Wed, 21 Jul 2004 11:15:46 -0400)
Brian Osman (osman -at- vvisions.com) (See CVS log)
Bruce Barr (schmoost -at- yahoo.com) (See Boost list of Mon, 16 Aug 2004 15:06:43 -0500)
Bruno da Silva de Oliveira (bruno - at - esss.com.br)
Christain Engstrom (christian.engstrom -at- glindra.org) (See Boost list message of Mon, 30 Aug 2004 14:31:49 +0200)
Cromwell D Enage (sponage -at- yahoo.com) (See Boost list message of August 12, 2004 11:49:13 AM EST)
Dan Gohman (djg
-at- cray.com) (See Boost list messsage of Sat, 21 Aug 2004 10:54:59 +0100)
Dan Nuffer (dan -at- nuffer.name)
Daniel Frey (d.frey -at- gmx.de, daniel.frey -at- aixigo.de)
Daniel Nuffer (dan -at- nuffer.name)
Darin Adler (darin -at- bentspoon.com) (Email to Andreas Huber, see change log)
Daryle Walker (darylew - at - hotmail.com)
Dave Abrahams (dave@boost-consulting.com)
Dave Moore (dmoore -at- viefinancial.com) (See Boost list message of 18 Dec 2003 15:35:50 -0500)
David Abrahams (dave@boost-consulting.com)
Dietmar Kuehl (dietmar_kuehl -at- yahoo.com) (Email to Andreas Huber, see change log)
Douglas Gregor (gregod -at- cs.rpi.edu, dgregor -at- cs.indiana.edu, doug.gregor -at- gmail.com)
Dr John Maddock (john - at - johnmaddock.co.uk)
Edward D. Brey (brey -at- ductape.net) (Email to Andreas Huber, see change log)
Eric Ford (un5o6n902 -at- sneakemail.com) (See Boost list message of Sun, 15 Aug 2004 10:29:13 +0100)
Eric Friedman (ebf@users.sourceforge.net)
Eric Niebler (eric@boost-consulting.com)
Fernando
Cacciola (fernando_cacciola@ciudad.com.ar)
Fernando Luis Cacciola Carballal (fernando_cacciola@ciudad.com.ar)
Francois Faure (Francois.Faure -at- imag.fr) (See CVS log)
Gary Powell (powellg - at - amazon.com) (See Boost list message of 10 Feb 2004 14:22:46 -0800)
Gennadiy Rozental (rogeeff -at- mail.com) (Email to Andreas Huber, see change log)
Gottfried Ganssauge (Gottfried.Ganssauge -at- HAUFE.DE) (See Boost List message of Mon, 16 Aug 2004 10:09:19 +0200)
Gottfried Ganauge (Gottfried.Ganssauge -at- HAUFE.DE) (Alternative spelling of Gottfried Ganssauge)
Greg Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gregory Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gunter Winkler (gunter.winkler -at- unibw-muenchen.de) (See Boost List message of Mon, 16 Aug 2004 10:24:17 +0200)
Hartmut Kaiser (hartmut.kaiser -at- gmail.com)
Herve Bronnimann (hbr -at- poly.edu)
Herv
Brnnimann (hbr -at- poly.edu)
Housemarque Oy (Ilari Kuittinen ilari.kuittinen -at- housemarque.fi)
Howard Hinnant (hinnant -at- twcny.rr.com) (See Boost list message of July 25, 2004 3:44:49 PM EST)
Hubert Holin (hubert_holin -at- users.sourceforge.net)
Indiana University ()
Itay Maman (imaman -at- users.sourceforge.net)

Jaakko Jrvi (jajarvi -at- osl.iu.edu)
Jaap Suter (j.suter -at- student.utwente.nl) (See Boost list message of Thu, 16 Sep 2004 09:32:43 -0700)
Jeff Garland (jeff - at - crystalclearsoftware.com) (see Boost list post of July 25, 2004 19:31:09 -0700)
Jens Maurer (Jens.Maurer@gmx.net)
Jeremy G Siek (jsiek@osl.iu.edu)
Jeremy Siek (jsiek@osl.iu.edu)
Joel de Guzman (joel -at- boost-consulting.com) (See Boost list message of July 25, 2004 8:32:00 PM EST)
John Bandela (jbandela-at-ufl.edu)
John Maddock (john - at - johnmaddock.co.uk)
John R Bandela (jbandela-at-ufl.edu)
Jonathan Turkanis (turkanis -at- coderage dot com)
Juergen Hunold (hunold -at- ive.uni-hannover.de) (See Boost
List Message of Fri, 13 Aug 2004 19:39:55 +0200)
Kevlin Henney (kevlin -at- curbralan.com) (See Boost list message of Wed, 15 Sep 2004 18:15:17 +0200)
Kresimir Fresl (fresl -at- master.grad.hr) (See Boost List message of August 16, 2004 8:23:35 AM EST)
Lars Gullik Bjnnes (larsbj -at- lyx.org) (See Boost list message of Tue, 17 Aug 2004 15:49:02 +0100)
Lie-Quan Lee (liequan - at - slac.stanford.edu, llee - at - cs.indiana.edu)
Maarten Keijzer (mkeijzer -at- cs.vu.nl) (See Boost list message of Wed, 18 Aug 2004 21:43:18 +0100)
Mac Murrett (mmurrett -at- mac.com)
Marc Wintermantel (wintermantel -at- imes.mavt.ethz.ch, wintermantel -at- even-ag.ch) (See CVS log)
Michael Glassford (glassfordm - at - hotmail.com)
Michael Stevens (Michael.Stevens - at - epost.de)
Multi Media Ltd. (pdimov@mmltd.net)
Nicolai M Josuttis (solutions -at- josuttis.com) (See Boost list message of Mon, 30 Aug 2004 10:52:00 +0100)
Nikolay Mladenov (nickm -at- sitius.com) (See Boost list message of Tue, 17 Aug 2004
15:45:33 +0100)
Paul Mensonides (pmenso57 -at- comcast.net) (See Boost list message of July 21, 2004 1:12:21 AM EST)
Pavol Droba (droba -at- topmail.sk)
Peter Dimov (pdimov@mmltd.net)
R W Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)
Ralf W. Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)
Rational Discovery LLC (Greg Landrum Landrum -at- RationalDiscovery.com) (See Boost list post of Tue, 17 Aug 2004 10:35:36 +0100)
Rene Rivera (grafik/redshift-software.com, rrivera/acm.org)
Robert Ramey (ramey@www.rrsd.com)
Roland Richter (roland -at- flll.jku.at) (See Boost list post of Mon, 16 Aug 2004 22:16:55 +0200)
Roland Schwarz (roland.schwarz -at- chello.at)
Ronald Garcia (garcia -at- cs.indiana.edu) (Email to Andreas Huber, see change log)
Samuel Krempp (krempp -at- crans.ens-cachan.fr) (See Boost list message of Mon, 27 Sep 2004 13:18:36 +0200)
Stefan Seefeld (seefeld -at- sympatico.ca)
Stephen Cleary (scleary -at- jerviswebb.com) (See Boost list message of Tue, 28 Sep 2004 13:11:46 +0100)
Steve
Cleary (Variant of Stephen Cleary)
Sylvain Pion (Sylvain.Pion - at - sophia.inria.fr)
The Trustees of Indiana University ()
Thomas Witt (witt - at - ive.uni-hannover.de, witt - at - acm.org, witt - at - styleadvisor.com)
Thorsten Jrgen Ottosen (nesotto - at - cs.auc.dk)
Thorsten Ottosen (nesotto - at - cs.auc.dk)

Toon Knapen (toon dot knapen - at - fft.be)
Trustees of Indiana University ()
University of Notre Dame ()
Vladimir Prus (ghost@cs.msu.su)
William E. Kempf () (email to Beman Dawes, 9/14/2006 4:18 PM)
Joerg Walter (jhr.walter - at - t-online.de : email to ublas mailing list Mon, 17 Sep 2007 10:17:08 +0200)
Mathias Koch (mkoch - at - idesis.de 7 : email to boost-owner@lists.boost.org Sep 2007 13:20:09 +0200)

--- end ---
Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS
FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT
SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
<!-- Copyright 2018 Paul Fultz II
Distributed under the Boost Software License, Version 1.0.
(http://www.boost.org/LICENSE_1_0.txt)
-->

License
=======

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to

do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source
 language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
////
Copyright 2017 Peter Dimov

Distributed under the Boost Software License, Version 1.0.

See accompanying file LICENSE_1_0.txt or copy at
http://www.boost.org/LICENSE_1_0.txt
////

[#mpl]
# MPL Support, <boost/mp11/mpl.hpp>
:toc:
:toc-title:
:idprefix:

The header `<boost/mp11/mpl.hpp>`, when included, defines the
necessary support infrastructure for `mp_list` and `std::tuple`
to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

It's also possible to only enable support for `mp_list` by
including `<boost/mp11/mpl_list.hpp>`, and for `std::tuple`
by including `<boost/mp11/mpl_tuple.hpp>`. This may be required
because some libraries, such as Boost.Fusion, contain their own MPL
support for `std::tuple`, which conflicts with Mp11's one.
<!DOCTYPE html>
<html>
 <head></head>
 <body>
  <h3>
   Copyright Test

```
  </h3>
  <p class="copyright">
    1963, 1964, 1965 Jane Doe
  </p>
  <p class="copyright">
    2018 Joe Blow, John Coe
  </p>
  <p class="copyright">
    1977, 1985 Someone else
  </p>
 </body>
</html>
```

Use of this software is granted under one of the following two licenses,
to be chosen freely by the user.

1. Boost Software License - Version 1.0 - August 17th, 2003
==========

Copyright (c) 2006, 2007 Marcin Kalicinski

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are
 solely in the form of machine-executable object code generated by
a source language processor.

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

2. The MIT License
==========

Copyright (c) 2006, 2007 Marcin Kalicinski

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

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

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN"
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
 <title>Copyright Test</title>
 <articleinfo>
  <copyright>
   <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
  </copyright>
  <copyright>
   <year>2018</year> <holder>Joe Blow, John Coe</holder>
  </copyright>
  <copyright>
   <year>1977</year> <year>1985</year> <holder>Someone else</holder>
  </copyright>
 </articleinfo>
</article>
==============================================================================
Copyright (c) 2007-2011 Barend Gehrels, Amsterdam, the Netherlands.
Copyright (c) 2008-2011 Bruno Lalande, Paris, France.
Copyright (c) 2009-2011 Mateusz Loskot, London, UK.

Use, modification and distribution is subject to the Boost Software License,
Version 1.0. (See accompanying file LICENSE_1_0.txt or copy at
http://www.boost.org/LICENSE_1_0.txt)
==============================================================================

The default copyright note for C++ source files reads:

// Boost.Geometry (aka GGL, Generic Geometry Library)

// Copyright (c) 2007-2011 Barend Gehrels, Amsterdam, the Netherlands.
// Copyright (c) 2008-2011 Bruno Lalande, Paris, France.
// Copyright (c) 2009-2011 Mateusz Loskot, London, UK.

// Parts of Boost.Geometry are redesigned from Geodan's Geographic Library
// (geolib/GGL), copyright (c) 1995-2010 Geodan, Amsterdam, the Netherlands.

// Use, modification and distribution is
subject to the Boost Software License,
// Version 1.0. (See accompanying file LICENSE_1_0.txt or copy at
// http://www.boost.org/LICENSE_1_0.txt)

Exceptions:
1) Major work of any author -> might change order, change date
2) Exclusive work of one author including design -> might take sole copyright
Examples:
- adapted geometry types e.g. array, Boost.Polygon
- implemented file-format e.g. WKB
- implemented specific strategy or algorithm e.g. intersections
3) Examples -> might take sole copyright
4) Tests -> might take sole copyright
5) Docs -> might take sole copyright
6) Utilities e.g. converters -> might take sole copyright

The copyright note for other (source) files as .py, Jamfiles, etc is similar
and comments are changed accordingly.
Copyright Paul Fultz II 2016-2018

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT
LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright Louis Dionne 2013-2017

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by

a source language processor.

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

Parts of the navigation implementation were borrowed from the docdock theme,
and thus they are copyright as follows:

The MIT License (MIT)

Copyright (c) 2014 Grav
Copyright (c) 2016 MATHIEU CORNIC
Copyright (c) 2017 Valere JEANTET

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

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

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Software License, Version 1.0

Copyright 2002-2003, Trustees of Indiana University.
Copyright 2000-2001, University of Notre Dame.
All rights reserved.

Indiana University has the exclusive rights to license this product under the
following license.

Redistribution and use in source and binary forms, with or without

modification, are permitted provided that the following conditions are met:

* All redistributions of source code must retain the above copyright notice,
  the list of authors in the original source code, this list of conditions
  and the disclaimer listed in this license;

* All redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the disclaimer listed in this license
  in the documentation and/or other materials provided with the distribution;

* Any documentation included with all redistributions must include the
  following acknowledgement:

    "This product includes software developed at the University
of Notre Dame
    and the Pervasive Technology Labs at Indiana University. For technical
    information contact Andrew Lumsdaine at the Pervasive Technology Labs at
    Indiana University.  For administrative and license questions contact the
    Advanced Research and Technology Institute at 351 West 10th Street.
    Indianapolis, Indiana 46202, phone 317-278-4100, fax 317-274-5902."

  Alternatively, this acknowledgement may appear in the software itself, and
  wherever such third-party acknowledgments normally appear.

* The name Indiana University, the University of Notre Dame or "Caramel"
  shall not be used to endorse or promote products derived from this software
  without prior written permission from Indiana University.  For written
  permission, please contact Indiana University Advanced Research &
  Technology Institute.

* Products derived from this software may not be called "Caramel", nor may
  Indiana University, the University of Notre Dame
or "Caramel" appear in
  their name, without prior written permission of Indiana University Advanced
  Research & Technology Institute.

Indiana University provides no reassurances that the source code provided does
not infringe the patent or any other intellectual property rights of any other
entity.  Indiana University disclaims any liability to any recipient for claims
brought by any other entity based on infringement of intellectual property
rights or otherwise.

LICENSEE UNDERSTANDS THAT SOFTWARE IS PROVIDED "AS IS" FOR WHICH NO WARRANTIES
AS TO CAPABILITIES OR ACCURACY ARE MADE. INDIANA UNIVERSITY GIVES NO WARRANTIES
AND MAKES NO REPRESENTATION THAT SOFTWARE IS FREE OF INFRINGEMENT OF THIRD
PARTY PATENT, COPYRIGHT, OR OTHER PROPRIETARY RIGHTS. INDIANA UNIVERSITY MAKES
NO WARRANTIES THAT SOFTWARE IS FREE FROM "BUGS", "VIRUSES", "TROJAN HORSES",
"TRAP DOORS", "WORMS", OR OTHER HARMFUL CODE.  LICENSEE ASSUMES THE ENTIRE RISK

AS TO THE PERFORMANCE OF SOFTWARE AND/OR ASSOCIATED
MATERIALS, AND TO THE
PERFORMANCE AND VALIDITY OF INFORMATION GENERATED USING SOFTWARE.
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on
Wed, 17 July 2002, 19:27:00 +0400.

Copyright:

```
/+\
+\ Copyright 1993-2002 Christopher Seiwald and Perforce Software, Inc.
\+/

This is Release 2.4 of Jam/MR, a make-like program.

License is hereby granted to use this software and distribute it
freely, as long as this copyright notice is retained and modifications
are clearly marked.

ALL WARRANTIES ARE HEREBY DISCLAIMED.
```

Some portions are also:

```
Copyright 2001-2006 David Abrahams.
Copyright 2002-2006 Rene Rivera.
Copyright 2003-2006 Vladimir Prus.

Distributed under the Boost Software License, Version 1.0.
(See accompanying file LICENSE_1_0.txt or http://www.boost.org/LICENSE_1_0.txt)
```

http_parser.c is based on src/http/ngx_http_parse.c from NGINX copyright
Igor Sysoev.

Additional changes are licensed under the same terms as NGINX and
copyright Joyent, Inc. and other Node contributors. All rights reserved.

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

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

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT

SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright 2015-2016 Barrett Adair

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT
LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.

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

IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.13 httpcomponents-core 4.4.13

## 1.13.1 Available under license :

Apache HttpCore
Copyright 2005-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

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

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

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

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

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

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

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

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

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

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

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

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

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

3. Grant of Patent License. Subject to the terms and conditions of this

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

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

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

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

that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

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

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

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

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

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

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

END OF TERMS AND CONDITIONS

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

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

Copyright [yyyy] [name of copyright owner]

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

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

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

# 1.14 httpcore-nio 4.4.13

## 1.14.1 Available under license :

Apache HttpCore NIO
Copyright 2005-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

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

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

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

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

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

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

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

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

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

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

the Work and Derivative Works thereof.

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

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

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

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

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

meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

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

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

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

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

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

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

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

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

END OF TERMS AND CONDITIONS

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

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate

comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

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

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

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

# 1.15 httpclient-cache 4.5.13

## 1.15.1 Available under license :

Apache HttpClient Cache
Copyright 2010-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

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

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

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

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

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the

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

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

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

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

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

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

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

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

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

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

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

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding

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

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

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

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

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

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

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,

unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

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

END OF TERMS AND CONDITIONS

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

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

Copyright [yyyy] [name of copyright owner]

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

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

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

# 1.16 commons-logging 1.2

## 1.16.1 Available under license :

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

/*
* Copyright 2001-2006 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/LogFactory.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2001-2004,2006 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/AvalonLogger.java

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

/*
* Copyright 2004 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/WeakHashtable.java
No license file was found, but licenses were detected in source scan.

2004 The Apache Software Foundation.

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

    http://www.apache.org/licenses/LICENSE
2.0

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

Found in path(s):
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/package.html
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/package.html
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2001-2004 The Apache Software Foundation.
*

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

Found in path(s):
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/LogConfigurationException.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Log4JLogger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/LogFactoryImpl.java
*
 /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk13LumberjackLogger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/SimpleLog.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk14Logger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/LogSource.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/NoOpLog.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/LogKitLogger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/Log.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2005 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/ServletContextCleaner.java

# 1.17 commons-codec 1.14

## 1.17.1 Available under license :

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

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must

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

You may add Your own

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

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

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

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

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

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this

License. However, in accepting such obligations, You may act only
on Your own behalf and on Your
sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

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

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

Copyright [yyyy] [name of copyright owner]

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

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

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
Apache Commons Codec
Copyright 2002-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
contains test data from http://aspell.net/test/orig/batch0.tab.
Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)

==========

The content of package org.apache.commons.codec.language.bm has been translated

from the original php source code available at http://stevemorse.org/phoneticinfo.htm
with permission from the original authors.
Original source copyright:
Copyright (c) 2008 Alexander Beider & Stephen P. Morse.

# 1.18 httpcomponents-mime 4.5.12

## 1.18.1 Available under license :

Apache HttpClient Mime
Copyright 1999-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

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

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

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

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

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

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

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

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but

not limited to compiled object code, generated documentation,
and conversions to other media types.

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

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

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

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

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

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

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

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

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

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

You may add Your own copyright statement to Your modifications and

may provide additional or different license terms and conditions

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

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

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

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

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

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this

License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

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

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

Copyright [yyyy] [name of copyright owner]

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

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

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

# 1.19 commons-codec 1.15

## 1.19.1 Available under license :

Apache Commons Codec
Copyright 2002-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
contains test data from http://aspell.net/test/orig/batch0.tab.
Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)

==========

The content of package org.apache.commons.codec.language.bm has been translated
from the original php source code available at http://stevemorse.org/phoneticinfo.htm
with permission from the original authors.
Original source copyright:
Copyright (c) 2008 Alexander Beider & Stephen P. Morse.

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

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

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

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

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

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

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

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

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

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

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

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

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

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

granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

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

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

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

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

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

5. Submission of Contributions. Unless You explicitly state otherwise,

any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

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

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

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

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

END OF TERMS AND CONDITIONS

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

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

Copyright [yyyy] [name of copyright owner]

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

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

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

# 1.20 asm 9.0

## 1.20.1 Available under license :

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

2011 INRIA, France Telecom
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 3. Neither the name of the copyright holders nor the names of its
* contributors may be used to endorse or promote products derived from
* this software without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"

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

Found in path(s):
* /opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/signature/package.html
* /opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/package.html
No license file was found, but licenses were detected in source scan.

// All rights reserved.
// Redistribution and use in source and binary forms, with or without
// modification, are permitted provided that the following conditions
// are met:
// 1. Redistributions of source code must retain the above copyright
//    notice, this list of conditions and the following disclaimer.
// 2. Redistributions in binary form must reproduce the above copyright
//    notice, this list of conditions and the following disclaimer in the
//    documentation and/or other materials provided with the distribution.
// 3. Neither the name of the copyright holders nor the names of its
//    this software without specific prior written permission.

Found in path(s):
* /opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/ModuleVisitor.java
* /opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/Opcodes.java
* /opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/RecordComponentWriter.java
*
 /opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/Handler.java
* /opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/signature/SignatureReader.java
* /opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/SymbolTable.java
* /opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/signature/SignatureWriter.java
* /opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/MethodWriter.java
* /opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/Type.java
* /opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/Attribute.java
* /opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/FieldVisitor.java
* /opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/AnnotationWriter.java
*

/opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/FieldWriter.java
* /opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/ClassVisitor.java
* /opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/ClassReader.java
* /opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/TypeReference.java
* /opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/MethodTooLargeException.java
* /opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/ModuleWriter.java
* /opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/signature/SignatureVisitor.java
* /opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/Frame.java
* /opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/Edge.java
* /opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/ByteVector.java
*
/opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/TypePath.java
* /opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/ConstantDynamic.java
* /opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/Context.java
* /opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/Constants.java
* /opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/AnnotationVisitor.java
* /opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/Symbol.java
* /opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/ClassWriter.java
* /opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/RecordComponentVisitor.java
* /opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/Handle.java
*
/opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/MethodVisitor.java
* /opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/ClassTooLargeException.java
* /opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/CurrentFrame.java
* /opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/Label.java

# 1.21 lcms 2.12

## 1.21.1 Available under license :

Little CMS
Copyright (c) 1998-2011 Marti Maria Saguer

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

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

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

PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

THIS LICENSE APPLIES ONLY TO iccjpeg.c file

---

In plain English:

1. We don't promise that this software works. (But if you find any bugs, please let us know!)
2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

In legalese:

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

This software is copyright (C) 1991-2013, Thomas G. Lane, Guido Vollbeding. All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute this software (or portions thereof) for any purpose, without fee, subject to these conditions:
(1) If any part of the source code for this software is distributed, then this README file must be included, with this copyright and no-warranty notice unaltered; and any additions, deletions, or changes to the original files must be clearly indicated in accompanying documentation.
(2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".
(3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

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

Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products

derived from
it.  This software may be referred to only as "the Independent JPEG Group's
software".

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

The Unix configuration script "configure" was produced with GNU Autoconf.
It is copyright by the Free Software Foundation but is freely distributable.
The same holds for its supporting scripts (config.guess, config.sub,
ltmain.sh).  Another support script, install-sh, is copyright by X Consortium
but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support has
been removed altogether, and the GIF writer has been simplified to produce
"uncompressed GIFs".  This technique does not use the LZW algorithm; the
resulting GIF files are larger than usual, but are readable by
 all standard
GIF decoders.

We are required to state that
   "The Graphics Interchange Format(c) is the Copyright property of
   CompuServe Incorporated.  GIF(sm) is a Service Mark property of
   CompuServe Incorporated."

# 1.22 zeromq 4.3.4

## 1.22.1 Available under license :

# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Michael Fox
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "gitfoxi", with
commit author "gitfoxi", are copyright of Michael Fox.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Michael Fox
2017/03/20

# Permission to Relicense under MPLv2

This is a statement by Google, Inc.
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "tkoeppe", with
commit author "Thomas Kppe", are copyright of Google, Inc.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Thomas Kppe
2017/09/13
# Permission to Relicense under MPLv2

This is a statement by Victor Luchits
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "viciious", with
commit author "Victor Luchits", are copyright of Victor Luchits.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Victor Luchits
2019/11/12
# Permission to Relicense under MPLv2

This is a statement by Nikita Kozlov
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "KLNikita", with
commit author "nikita kozlov <nikita@elyzion.net>", are copyright of Nikita Kozlov .
This document hereby grants the libzmq project team to relicense
libzmq,
including all past, present and future contributions of the author
listed above.

Nikita Kozlov
6 February 2020
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by {{ name of company / name of individual }}
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "{{github username}}", with
commit author "{{github commit author}}", are copyright of {{ name }} .
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

{{ Full Name }}
{{ creation date of document (format: yyyy/mm/dd) }}
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by "chugga_fan"
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "chuggafan", with
commit author "chugga_fan chuggafans@gmail.com", are copyright of "chugga_fan" .
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

"chugga_fan"
2017/03/19
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Roy Lenferink
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "rlenferink", with
commit author "Roy Lenferink <lenferinkroy@gmail.com>" or "Roy Lenferink <rlenferink@apache.org>", are
copyright of Roy Lenferink.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Roy Lenferink
2017/03/17
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Jakub Kaczmarzyk
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "kaczmarj", with

commit author "Jakub Kaczmarzyk jakub.kaczmarzyk@gmail.com", are copyright of Jakub Kaczmarzyk.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Jakub Kaczmarzyk
2020/07/29
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Serghei Novac
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "carbofos", with
commit author "Serghei Novac <serghei.novac@epydoc.com>", are copyright of Serghei Novac.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Serghei Novac
2019/03/05
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Anton Dimitrov that grants permission to
relicense its copyrights in the libzmq C++ library (ZeroMQ) under the
Mozilla Public License v2 (MPLv2) or any other Open Source Initiative
approved license chosen by the current ZeroMQ BDFL (Benevolent
Dictator for Life).

A portion of the commits made by the Github handle "antonrd", with
commit author "Anton Dimitrov <dimitrov.anton@gmail.com>", are
copyright of Anton Dimitrov.  This document hereby grants the libzmq
project team to relicense libzmq, including all past, present and
future contributions of the author listed above.

Anton Dimitrov

2018/10/01
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Henri Gourvest that grants permission to
relicense its copyrights in the libzmq C++ library (ZeroMQ) under the
Mozilla Public License v2 (MPLv2) or any other Open Source Initiative
approved license chosen by the current ZeroMQ BDFL (Benevolent
Dictator for Life).

A portion of the commits made by the Github handle "hgourvest", with
commit author "Henri Gourvest <hgourvest@progdigy.com>", are

copyright of Henri Gourvest.  This document hereby grants the libzmq
project team to relicense libzmq, including all past, present and
future contributions of the author listed above.

Henri Gourvest
2018/12/8
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Christophe Juniet
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "cjuniet", with
commit author "Christophe Juniet <c.juniet@gmail.com>", are copyright of Christophe Juniet.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Christophe Juniet
2017/03/20
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Matthew Connolly
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "mattconnolly", with
commit author "Matt Connolly <matt.connolly@me.com>", are copyright of Matthew Connolly.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Matthew Connolly
2017/06/28
# Permission to Relicense under MPLv2 or any other share-alike OSI approved license chosen by the current
ZeroMQ BDFL

This is a statement by xqcool
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
share-alike Open Source Initiative approved license chosen by the current
ZeroMQ BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "xqcool", with
commit author "xqcool <xuquan316@live.com>", are copyright of xqcool .
This document hereby grants the libzmq project team to relicense libzmq,

including all past, present and future contributions of the author listed above.

xqcool
2020/01/01
# Permission to Relicense under MPLv2

This is a statement by Manuel Segura
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "mesegura", with
commit author "Manuel Segura", are copyright of Manuel Segura .
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Manuel Eduardo Segura
2019/08/10
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Alex Grnholm
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "agronholm", with
commit author "Alex Grnholm <alex.gronholm+git@nextday.fi>", are copyright of Alex Grnholm.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Alex Grnholm
2017/03/19
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Aaron Linville
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "linville", with
commit author "Aaron Linville <aaron@linville.org>", are copyright of Aaron Linville.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Aaron Linville
2017/03/27

# Permission to Relicense under MPLv2

This is a statement by Dylan Cali
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "calid", with
commit author "Dylan Cali <calid1984@gmail.com>", are copyright of Dylan Cali.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Dylan Cali

2019/02/17
Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Attila Mark Sz that grants permission to relicense its copyrights in the libzmq C++ library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other Open Source Initiative approved license chosen by the current ZeroMQ BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "ambitslix", with commit author "gougolith@gmail.com", are copyright of Attila Mark. This document hereby grants the libzmq project team to relicense libzmq, including all past, present and future contributions of the author listed above.

Attila Mark Sz 2020/11/10
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Mark Jan van Kampen that grants permission to
relicense its copyrights in the libzmq C++ library (ZeroMQ) under the
Mozilla Public License v2 (MPLv2) or any other Open Source Initiative
approved license chosen by the current ZeroMQ BDFL (Benevolent
Dictator for Life).

A portion of the commits made by the Github handle "mjvk", with
commit author "Mark Jan van Kampen <markjanvankampen@gmail.com>", are
copyright of Mark Jan van Kampen.  This document hereby grants the libzmq
project team to relicense libzmq, including all past, present and
future contributions of the author listed above.

Mark Jan van Kampen
2020/02/24
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Ivan Pechorin that grants permission to
relicense its copyrights in the libzmq C++ library (ZeroMQ) under the
Mozilla Public License v2 (MPLv2) or any other Open Source Initiative
approved license chosen by the current ZeroMQ BDFL (Benevolent
Dictator for Life).

A portion of the commits made by the Github handle "ipechorin", with
commit author "Ivan Pechorin <ivan.pechorin@gmail.com>", are
copyright of Ivan Pechorin.  This document hereby grants the libzmq
project team to relicense libzmq, including all past, present and
future contributions of the author listed above.

Ivan Pechorin
2019/09/25
# Permission to Relicense under MPLv2

This is a statement by Sven Liedtke
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "liedtkeInTUM", with
commit author "Sven Liedtke", are copyright of Sven Liedtke.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Sven Liedtke
2019/11/27
# Permission to Relicense under MPLv2

This is a statement by Ericsson
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "hugne", with
commit author "Erik Hugne erik.hugne@ericsson.com", are copyright of Ericsson.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Jon Maloy <jon.maloy@ericsson.com>
2019/03/27
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Isaac Poulton
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "Omegastick", with
commit author "Omegastick", are copyright of Isaac Poulton.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Isaac Poulton
2019/04/14
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by JaeSang Yoo
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "JSYoo5B", with
commit author "JaeSang Yoo <jsyoo5b@gmail.com>", are copyright of JaeSang Yoo.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

JaeSang Yoo
2020.02.29
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Volodymyr Korniichuk
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "ezhikus", with
commit author "VolodymyrKorn@gmail.com", are copyright of Volodymyr Korniichuk.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Volodymyr Korniichuk
2017/03/21
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Davit Kalantaryan
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made with commit author
"Davit Kalantaryan <davit.kalantaryan@desy.de>", are copyright of Davit Kalantaryan.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Davit Kalantaryan
2020/08/06

# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Elliot Saba
that grants permission to relicense his copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "staticfloat", with
commit author "Elliot Saba <staticfloat@gmail.com>", are copyright of Elliot Saba.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Elliot Saba
2017/03/19
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Brian Silverman
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "brian-peloton", with
commit author "brian@peloton-tech.com", are copyright of Brian Silverman .
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Brian Silverman
2019/08/14
# Permission to Relicense under MPLv2

This is a statement by KIU Shueng Chuan
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "pijyoi", with
commit author "KIU Shueng Chuan <nixchuan@gmail.com>", are copyright of KIU Shueng Chuan.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

KIU Shueng Chuan
2017/03/23
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Jim Hague that grants permission to relicense
its copyrights in the libzmq C++ library (ZeroMQ) under the Mozilla
Public License v2 (MPLv2) or any other Open Source Initiative approved

license chosen by the current ZeroMQ BDFL (Benevolent Dictator for
Life).

A portion of the commits made by the Github handle "banburybill", with
commit author "Jim Hague <jim.hague@acm.org>", are copyright of Jim
Hague.  This document hereby grants the libzmq project team to
relicense libzmq, including all past, present and future contributions
of the author listed above.

Jim Hague
2017/03/20
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Eelis van der Weegen that grants permission to
relicense its copyrights in the libzmq C++ library (ZeroMQ) under the
Mozilla Public License v2 (MPLv2) or any other Open Source Initiative
approved license chosen by the current ZeroMQ BDFL (Benevolent
Dictator for Life).

A portion of the commits made by the Github handle "Eelis", with
commit author "Eelis van der Weegen <eelis@eelis.net>", are
copyright of Eelis van der Weegen.  This document hereby grants the libzmq
project team to relicense libzmq, including all past, present and
future contributions of the author listed above.

Eelis van der Weegen
2019/02/22
# Permission to Relicense under MPLv2

This is a statement by Chris Staite that grants permission to relicense its
copyrights in the libzmq C++ library (ZeroMQ) under the Mozilla Public License
v2 (MPLv2).

A portion of the commits made by the Github handle "chrisstaite", with commit
author "Chris <chris@yourdreamnet.co.uk>", are copyright of Chris Staite.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed
above.

Chris Staite
2017/03/28
# Permission to Relicense under MPLv2

This is a statement by Goswin von Brederlow
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "mrvn", with

commit author "Goswin von Brederlow <goswin-v-b@web.de>" or "Goswin von Brederlow <brederlo@q-leap.de>", are copyright of Goswin von Brederlow.
This document hereby grants the libzmq project team to relicense
libzmq,
including all past, present and future contributions of the author
listed above.

Goswin von Brederlow
2020/12/20
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by William P Strang
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "willstrang", with
commit author "Will Strang <william.p.strang@gmail.com", are copyright of William P Strang.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

William P Strang
2017/03/23
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Brian Buchanan
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "bwbuchanan", with
commit author "Brian Buchanan <bwb@holo.org>" or "Brian Buchanan <brian@tiogalake.com>", are copyright of Brian Buchanan.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Brian Buchanan
2017/03/23
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Rik van der Heijden
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "rikvdh", with
commit author "Rik van der Heijden <mail@rikvanderheijden.com>" and "Rik van der Heijden
<rik.vanderheijden@dualinventive.com>", are copyright of Rik van der Heijden.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Rik van der Heijden
2017/04/23
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Axel Nennker that grants permission to
relicense its copyrights in the libzmq C++ library (ZeroMQ) under the
Mozilla Public License v2 (MPLv2) or any other Open Source Initiative
approved license chosen by the current ZeroMQ BDFL (Benevolent
Dictator for Life).

A portion of the commits made by the Github handle "AxelNennker", with
commit author "Axel Nennker <axel@nennker.de>", are
copyright of Axel Nennker.  This document hereby grants the libzmq
project team to relicense libzmq, including all past, present and
future contributions of the author listed above.

Axel Nennker
2019/08/11
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

I happily grant permission to
relicense its copyrights in the libzmq C++ library (ZeroMQ) under the
Mozilla Public License v2 (MPLv2) or any other Open Source Initiative
approved license chosen by the current ZeroMQ BDFL (Benevolent
Dictator for Life).

The portion of the commits made by the Github handle "chymanfx", are
not copyrighted in any way.
Chyman
2019/08/12
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Robert Beaty
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "drbobbeaty", with
commit author "Bob Beaty <drbob@themanfromspud.com>", are copyright of Robert Beaty .
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Robert Beaty
2019/08/10
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Matthias Kluwe
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "mkluwe", with
commit author "Matthias Kluwe <mkluwe@gmail.com>", are copyright of Matthias Kluwe.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Matthias Kluwe
2017/03/24
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Lionel Orry
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "chickenkiller", with
commit author "Lionel Orry <lionel.orry@gmail.com>", are copyright of Lionel Orry.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Lionel Orry
2017/03/23
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Andreas Hasenack that grants permission to
relicense its copyrights in the libzmq C++ library (ZeroMQ) under the
Mozilla Public License v2 (MPLv2) or any other Open Source Initiative
approved license chosen by the current ZeroMQ BDFL (Benevolent
Dictator for Life).

A portion of the commits made by the Github handle "panlinux", with
commit author "Andreas Hasenack <andreas@canonical.com>", are
copyright of Andreas Hasenack.  This document hereby grants the libzmq
project team to relicense libzmq, including all past, present and
future contributions of the author listed above.

Andreas Hasenack

2019/03/18
wepoll - epoll for Windows
https://github.com/piscisaureus/wepoll

Copyright 2012-2018, Bert Belder <bertbelder@gmail.com>
All rights reserved.

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

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

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

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY,
 OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
# Permission to Relicense under MPLv2

This is a statement by Hewlett Packard Enterprise
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "brc859844", with
commit author "Brett Cameron <Brett.Cameron@hp.com>", are copyright of Hewlett Packard Enterprise.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Hewlett Packard Enterprise
2019/03/12
Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Denis Collette that grants permission to relicense its copyrights in the libzmq C++ library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other Open Source Initiative approved license chosen by the current ZeroMQ BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "colletted", with commit author "Denis Collette denisncollette@gmail.com", are copyright of Denis Collette. This document hereby grants the libzmq project team to relicense libzmq, including all past, present and future contributions of the author listed above.

Denis Collette 2020/01/22
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Erik Hugne
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "Hugne", with
commit author "erik.hugne@gmail.com", are copyright of Erik Hugne.
Commits made by author "erik.hugne@ericsson.com" are NOT covered by this
statement.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Erik Hugne
2017/03/22
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Fabrice Fontaine
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "ffontaine", with
commit author "Fabrice Fontaine <fontaine.fabrice@gmail.com>", are copyright of Fabrice Fontaine.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Fabrice Fontaine
2018-09-13
Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL
This is a statement by Rickard Hallerbck that grants permission to relicense its copyrights in the libzmq C++ library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other Open Source Initiative approved license chosen by the current ZeroMQ BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "Ricardicus", with commit author "Rickard Hallerbck", are copyright of Rickard Hallerbck. This document hereby grants the libzmq project team to relicense libzmq, including all past, present and future contributions of the author listed above.

Rickard Hallerbck 2020/02/28

# Permission to Relicense under MPLV2

This directory collects grants from individuals and firms that hold
copyrights in ZeroMQ to permit licensing the ZeroMQ code under
the [Mozilla Public License, version
2](https://www.mozilla.org/en-US/MPL/2.0/). See [GitHub Pull
Request #1917](https://github.com/zeromq/libzmq/pull/1917),
the [0MQ Licensing Page](http://zeromq.org/area:licensing) and
[original iMatix zeromq-dev license
grant](http://lists.zeromq.org/pipermail/zeromq-dev/2016-April/030288.html)
for some background information.

Please create a separate file in this directory for each individual
or firm holding copyright in ZeroMQ, named after the individual or
firm holding the copyright.

Each patch must be made with a GitHub handle that is clearly
associated with the copyright owner, to guarantee the identity of
the signatory. Please avoid changing the files created by other
individuals or firms granting a copyright license over their
copyrights (if rewording is required contact them
and ask them to
submit an updated version). This makes it easier to verify that
the license grant was made by an authorized GitHub account.
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Leonardo J. Consoni
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "AnCaPepe", with
commit author "Leonardo Jos Consoni <consoni_2519@hotmail.com>", are copyright of Leonardo J. Consoni.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Leonardo Jos Consoni
2017/03/19
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Caleb Epstein
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "Bklyn", with

commit author "Caleb Epstein <cae@bklyn.org>", are copyright of Caleb Epstein.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Caleb Epstein
2017/03/21
# Permission to Relicense under MPLv2

This is a statement by Steven McCoy
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "steve-o", with
commit author "Steven McCoy <steven.mccoy@miru.hk>" and "Steve-o
<fnjordy@gmail.com>", are copyright of Steven McCoy.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Steven McCoy
2019/02/24
# Permission to Relicense under MPLv2

This is a statement by Maurizio Melato
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "mauri-melato", with
commit author "Maurizio Melato", are copyright of Maurizio Melato.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Maurizio Melato
2017-04-04
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by G. Evan Burkitt
that grants permission to relicense his copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "eburkitt", with
commit author "Evan Burkitt <evanb@edulinksys.com>", are copyright of G. Evan Burkitt.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

G. Evan Burkitt
2017/04/06

# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Gavin McNiff
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "gavinmcniff", with
commit author "Gavin McNiff <gavin@mcniff.ie>", are copyright of Gavin McNiff .
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Gavin McNiff
2017/03/20
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Michael Ford that grants permission to
relicense its copyrights in the libzmq C++ library (ZeroMQ) under the
Mozilla Public License v2 (MPLv2) or any other Open Source Initiative
approved license chosen by the current ZeroMQ BDFL (Benevolent
Dictator for Life).

A portion of the commits made by the Github handle "fanquake", with
commit author "Michael Ford <fanquake@gmail.com>", are
copyright of Michael Ford.  This document hereby grants the libzmq
project team to relicense libzmq, including all past, present and
future contributions of the author listed above.

Michael Ford
2019/08/10
Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: ZeroMQ
Source: http://zeromq.org

Files: *
Copyright: 2009-2011, 250bpm s.r.o
2007-2013, iMatix Corporation
2007-2011, Other contributors as noted in the AUTHORS file
License: LGPL-3.0+

Files: src/xreq.cpp
src/xpub.cpp
src/xsub.cpp
tests/test_reqrep_device.cpp
tests/test_invalid_rep.cpp
Copyright: 2010-2011, 250bpm s.r.o
2011, VMware, Inc

2010-2011, Other contributors as noted in the AUTHORS file
License: LGPL-3.0+

Files: src/msg.hpp
src/xrep.*
src/options.*
src/req.*
src/socket_base.*
src/pipe.*
src/encoder.cpp
src/lb.cpp
src/session_base.*
src/fq.cpp
include/zmq.h
Copyright: 2009-2011, 250bpm s.r.o
2007-2013, iMatix Corporation
2011, VMware, Inc
2007-2011, Other contributors as noted in the AUTHORS file
License: LGPL-3.0+

Files: src/pgm_receiver.*
src/pgm_sender.*
src/pgm_socket.*
Copyright: 2009-2011, 250bpm s.r.o
2007-2013, iMatix Corporation
2010-2011, Miru Limited
2007-2011, Other contributors as noted in the AUTHORS file
License: LGPL-3.0+

Files: external/unity/*
Copyright: 2007-2014 Mike Karlesky
2007-2014 Mark VanderVoord
2007-2014 Greg Williams
License: MIT
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
.
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.

IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Files: debian/*
Copyright: 2014- , Laszlo Boszormenyi (GCS) <gcs@debian.org>
2012-2014, Alessandro Ghedini <ghedo@debian.org>
2010-2012, Martin Lucina <martin@lucina.net>
2009-2010, Adrian von Bidder <cmot@debian.org>
2009-2010, Peter Busser <peter@mirabilix.nl>
2012, Alessandro Ghedini <ghedo@debian.org>
License: LGPL-2.0+

License: LGPL-2.0+
This package is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2 of the License, or (at your option) any later version.
.
This package is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty
of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.
.
You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.
.
On Debian systems, the complete text of the GNU Lesser General
Public License can be found in "/usr/share/common-licenses/LGPL-2".

License: LGPL-3.0+
This package is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 3 of the License, or (at your option) any later version.
.
This package is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.
.
You should have received a copy of the GNU General Public License
along with this
program. If not, see <http://www.gnu.org/licenses/>.
.

On Debian systems, the complete text of the GNU Lesser General
Public License can be found in "/usr/share/common-licenses/LGPL-3".BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

GNU LESSER GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode
of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the

Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying
Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters,
data structure
layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the Library side by side in a single library together with other library

facilities that are not Applications and are not covered by this
License, and convey such a combined library
under terms of your
choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based
on the Library, uncombined with any other library facilities,
conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it
is a work based on the Library, and explaining where to find the
accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

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

Each version is given a distinguishing version number. If the
Library as you received it specifies that a certain numbered version
of the GNU Lesser General Public License "or any later version"
applies to it, you have the option of
following the terms and
conditions either of that published version or of any later version
published by the Free Software Foundation. If the Library as you
received it does not specify a version number of the GNU Lesser
General Public License, you may choose any version of the GNU Lesser
General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide
whether future versions of the GNU Lesser General Public License shall
apply, that proxy's public statement of acceptance of any version is
permanent authorization for you to choose that version for the
Library.

---

SPECIAL EXCEPTION GRANTED BY COPYRIGHT HOLDERS

As a special exception, copyright holders give you permission to link this
library with independent modules to produce an executable, regardless of
the license terms of these independent modules, and to copy and distribute
the
resulting executable under terms of your choice, provided that you also
meet, for each linked independent module, the terms and conditions of
the license of that module. An independent module is a module which is not

derived from or based on this library. If you modify this library, you must
extend this exception to your version of the library.

Note: this exception relieves you of any obligations under sections 4 and 5
of this license, and section 6 of the GNU General Public License.
# Permission to Relicense under MPLv2

This is a statement by Cameron Smith
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "cwsmith", with
commit author "Cameron Smith <smithc11@rpi.edu>", are copyright of Cameron Smith.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Cameron Smith
2020/02/05
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Claudio Biagi that grants permission to relicense
its copyrights in the libzmq C++ library (ZeroMQ) under the Mozilla Public
License v2 (MPLv2) or any other Open Source Initiative approved license
chosen by the current ZeroMQ BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "emtr", with
commit author "Claudio Biagi <retmt@gmx.com>", are copyright
of Claudio Biagi.  This document hereby grants the libzmq project
team to relicense libzmq, including all past, present and future
contributions of the author listed above.

Claudio Biagi
2019/03/07
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Michael Lutz
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "michicc", with
commit author "Michael Lutz <michi@icosahedron.de>", are copyright of Michael Lutz.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Michael Lutz
2017/05/01

# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Juha Reunanen, Tomaattinen Ltd, and Outotec (Finland) Oy
that grants permission to relicense their copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the GitHub handle "reunanen", with
commit author "Juha Reunanen <juha.reunanen@tomaattinen.com>", are copyright of Juha Reunanen.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Juha Reunanen
2017/04/01
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Bjrn Tpel that grants permission to relicense
its copyrights in the libzmq C++ library (ZeroMQ) under the Mozilla
Public License v2 (MPLv2) or any other Open Source Initiative approved
license chosen by the current ZeroMQ BDFL (Benevolent Dictator for
Life).

A portion of the commits made by the Github handle "bjoto", with
commit author "Bjorn Topel <bjorn.topel@gmail.com>", are copyright of
Bjrn Tpel.  This document hereby grants the libzmq project team to
relicense libzmq, including all past, present and future contributions
of the author listed above.

Bjrn Tpel
2017/03/26
# Permission to Relicense under MPLv2

This is a statement by Dave Meehan
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "dmeehan1968", with
commit author "Dave Meehan dave_meehan@replicated.co.uk", are copyright of Dave Meehan.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Dave Meehan
2019/08/31
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Paul Colomiets
that grants permission to relicense its copyrights in the libzmq C++

library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "tailhook", with
commit author "Paul Colomiets <paul@colomiets.name>" or "Paul Colomiets
<pc@gafol.net>", are copyright of Paul Colomiets.  This document hereby grants
the libzmq project team to relicense libzmq, including all past, present and
future contributions of the author listed above.

Paul Colomiets
2017/03/19
# Permission to Relicense under MPLv2

This is a statement by Brett Cameron
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "brc859844", with
commit author "Brett Cameron <brett.r.cameron@gmail.com>" or
"Brett Cameron <brett.cameron@vmssoftware.com>", are copyright of Brett Cameron.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Brett Russell Cameron
2019/02/25
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Egomotion Limited
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "robertcastle", with
commit author "Robert Castle <robert@egomotion.co.uk>", are copyright of Egomotion Limited.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Robert Castle,
Director, Egomotion Limited
2017/03/21
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Franco Fichtner that grants permission to relicense
its copyrights in the libzmq C++ library (ZeroMQ) under the Mozilla Public
License v2 (MPLv2) or any other Open Source Initiative approved license
chosen by the current ZeroMQ BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "fichtner", with
commit author "Franco Fichtner <franco@lastsummer.de>", are copyright
of Franco Fichtner. This document hereby grants the libzmq project
team to relicense libzmq, including all past, present and future
contributions of the author listed above.

Franco Fichtner
2017/03/21
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Pawel Kurdybacha
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "kurdybacha", with
commit author "Pawel Kurdybacha pawel.kurdybacha@gmail.com", are copyright of Pawel Kurdybacha .
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Pawel Kurdybacha
2017/04/13
# Permission to Relicense under MPLv2

This is a statement by Brian Knox
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "taotetek", with
commit author "Brian Knox", are copyright of Brian Knox.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Brian Knox
2017/03/19
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Michael Lloyd
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "CommanderBubble", with
commit author "Michael Lloyd <commander.bubble@gmail.com>", are copyright of Michael Lloyd.
This document hereby grants the libzmq project team to relicense libzmq,

including all past, present and future contributions of the author listed above.

Michael Lloyd
2019/02/23
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Bill Torpey that grants permission to
relicense its copyrights in the libzmq C++ library (ZeroMQ) under the
Mozilla Public License v2 (MPLv2) or any other Open Source Initiative
approved license chosen by the current ZeroMQ BDFL (Benevolent
Dictator for Life).

A portion of the commits made by the Github handle "wallstprog", with
commit author "Bill Torpey <wallstprog@gmail.com>", are
copyright of Bill Torpey.  This document hereby grants the libzmq
project team to relicense libzmq, including all past, present and
future contributions of the author listed above.

Bill Torpey
2018/11/02
# Permission to Relicense under MPLv2

This is a statement by Brian Adamson that grants permission to relicense its
copyrights in the libzmq C++ library (ZeroMQ) under the Mozilla Public License v2
(MPLv2).

A portion of the commits made by the Github handle "bebopagogo", with commit
author "bebopagogo <bebopagogo@users.noreply.github.com>" and "Brian Adamson
<badamson@gmail.com>", are copyright of Brian Adamson. This document hereby grants
the libzmq project team to relicense libzmq, including all past, present and
future contributions of the author listed above.

Brian Adamson 2019/08/11 s
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Yuval Langer
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "yuvallanger", with
commit author "Yuval Langer <yuval.langer@gmail.com>", are copyright of Yuval Langer.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Yuval Langer
2017-03-19

# Permission to Relicense under MPLv2

This is a statement by Laurent Stacul
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "stac47", with
commit author "Laurent Stacul <laurent.stacul@gmail.com>", are copyright of
Laurent Stacul .
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Laurent Stacul
2020/02/21
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Min Ragan-Kelley
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the GitHub handle "minrk", with
commit author "Min RK benjaminrk@gmail.com", are copyright of Min Ragan-Kelley.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Min Ragan-Kelley
2017/07/17
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Phillip Mienk
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "pmienk", with
commit author "Phillip Mienk <mienkphi@gmail.com>", are copyright of Phillip Mienk.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Phillip Mienk
2019/02/18
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Ian Barber
that grants permission to relicense its copyrights in the libzmq C++

library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commit made by the Github handle "ianbarber", with
commit author "Ian Barber <ianbarber@gmail.com>", are copyright of Ian Barber.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Ian Barber
2017/03/27
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Pacific Northwest National Laboratory (Battelle Memorial Institute, Pacific Northwest Division)
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license (at least as permissive as the MPLv2) chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "hashstat", with
commit author "Brandon Carpenter <brandon.carpenter@pnnl.gov>", are copyright of Pacific Northwest National Laboratory (Battelle Memorial Institute, Pacific Northwest Division).
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Jereme Haack on behalf of Brandon Carpenter
2019/02/18
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Benjamin HENRION
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "zoobab", with
commit author "Benjamin HENRION", are copyright of Benjamin HENRION .
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Benjamin HENRION (zoobab)
Done in Brussels on the 2020/02/03
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Arthur O'Dwyer
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other

Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "Quuxplusone", with
commit author "Arthur O'Dwyer <arthur@push.am>", are copyright of Arthur O'Dwyer.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Arthur O'Dwyer
2019/02/17
# Permission to Relicense under MPLv2

This is a statement by Bernd Prager
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "bprager", with
commit author "Bernd Prager <bernd@prager.ws>", are copyright of Bernd Prager.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Bernd Prager
2017/03/22
# Permission to Relicense under MPLv2

This is a statement by Asaf Kahlon
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "asafkahlon", with
commit author "Asaf Kahlon asafka7@gmail.com", are copyright of Asaf Kahlon.
This document hereby grants the libzmq project team to relicense
libzmq,
including all past, present and future contributions of the author
listed above.

Asaf Kahlon
2020/02/05
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Christophe Guillon
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "guillon", with
commit author "Christophe Guillon <christophe.guillon.perso@gmail.com>", are copyright of Christophe Guillon .

This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Christophe Guillon
2019/06/10
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Reza Ebrahimi
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "reza-ebrahimi", with
commit author "Reza Ebrahimi <reza.ebrahimi.dev@gmail.com>", are copyright of Reza Ebrahimi.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Reza Ebrahimi
2017/03/22
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Matthew Arsenault
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "arsenm", with
commit author "Matt Arsenault <arsenm2@gmail.com>", are copyright of Matthew Arsenault.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Matthew Arsenault
2017/10/12
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Jon Dyte
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "JonDyte", with
commit author "Jon Dyte <jon@totient.co.uk>", are copyright of Jon Dyte.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Jon Dyte
2019/10/03
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Jan Kryl
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "jkryl", with
commit author "Jan Kryl jan.kryl@nexenta.com", are copyright of Jan Kryl.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Jan Kryl
2017/03/19
# Permission to Relicense under MPLv2

This is a statement by Dr. Stefan Kaes that grants permission to relicense its
copyrights in the libzmq C++ library (ZeroMQ) under the Mozilla Public License
v2 (MPLv2).

A portion of the commits made by the Github handle "skaes", with commit author
"Stefan Kaes <stefan.kaes@xing.com>", are copyright of New Work SE.  This
document hereby grants the libzmq project team to relicense libzmq, including
all past, present and future contributions of the author listed above.

Dr. Stefan Kaes
2021/01/04
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Tom Whittock
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "twhittock", with
commit author "Tom Whittock", are copyright of Tom Whittock.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Tom Whittock
2017/04/10
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Luca Boccassi (bluca)

that grants permission to relicense his copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "bluca", with
commit author "Luca Boccassi <luca.boccassi@gmail.com>" or
"Luca Boccassi <bluca@debian.org>", are copyright of Luca Boccassi.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed
above.

Luca Boccassi
2019/02/16
# Permission to Relicense under MPLv2

This is a statement by Dhammika Pathirana
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "dhammika", with
commit author "Dhammika Pathirana <dhammika@gmail.com>", are copyright of Dhammika Pathirana .
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Dhammika Pathirana
2019/08/12
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Jonathan Reams (of MongoDB, Inc.)
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "jbreams", with
commit author "Jonathan Reams jbreams@mongodb.com" (specifically the commits merged in pull requests #1451, #1449, #1448, and #1174), are copyright of
MongoDB, Inc.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed
above.

Jonathan Reams
2019/10/1
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Norman Ovenseri

that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "normano", with
commit author "normano", are copyright of Norman Ovenseri.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

This is a statement by Norman Ovenseri
2019/05/01
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Martin Natano
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "natano", with
commit author "Martin Natano", are copyright of Martin Natano.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Martin Natano
2017/03/21
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by John Murphy
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "murphybytes", with
commit author "John Murphy <murphybytes@gmail.com>", are copyright of John Murphy .
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

John Murphy
2019/08/12
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by skicc
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ

BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "skicc", with
commit author "skicc <skicc@fastmail.com>", are copyright of skicc.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

skicc
2019/06/15
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Wang Yunlai
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "hnwyllmm", with
commit author "hnwyllmm hnwyllmm@126.com", are copyright of Wang Yunlai .
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Wang Yunlai
2019/08/13
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Zoe Faltib
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "zoedberg", with
commit author "Zoe Faltib zoefaltiba@gmail.com", are copyright of Zoe Faltib.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Zoe Faltib
2020/11/10
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Andrij Abyzov
that grants permission to relicense his copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "drolevar", with

commit author "Andrij Abyzov <drolevar@gmail.com>", are copyright of Andrij Abyzov.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed
above.

Andrij Abyzov
2019/11/19
# Permission to Relicense under MPLv2

This is a statement by Laszlo Boszormenyi (GCS) that grants permission to
relicense its copyrights in the libzmq C++ library (ZeroMQ) under the
Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "gcsideal", with
commit author "Laszlo Boszormenyi (GCS) <gcs@debian.org>", are copyright of
Laszlo Boszormenyi (GCS) .
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author
listed above.

Laszlo Boszormenyi (GCS)
2020/02/13
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Alain Kalker
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "ackalker", with
commit author "Alain Kalker <a.c.kalker@gmail.com>", are copyright of Alain Kalker.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Alain Kalker
2019/05/23
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Piotr Trojanek that grants permission to relicense its
copyrights in the libzmq C++ library (ZeroMQ) under the Mozilla Public License
v2 (MPLv2) or any other Open Source Initiative approved license chosen by the
current ZeroMQ BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "ptroja", with
commit author "Piotr Trojanek <piotr.trojanek@gmail.com>", are copyright of Piotr Trojanek.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Piotr Trojanek
2017/03/19
Copyright (C) 1995, 1996, 1997, and 1998 WIDE Project.
All rights reserved.

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

THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.
   IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Christopher Dolan
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "cdolan", with
commit author "Christopher Dolan <chris@codingstream.org>", are copyright of Christopher Dolan.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Christopher Dolan
2017/03/19
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Jack Pimbert that grants permission to

relicense its copyrights in the libzmq C++ library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other Open Source Initiative approved license chosen by the current ZeroMQ BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "jackpimbert", with commit author "jackpimbert <jack.pimbert@gmail.com>", are copyright of Jack Pimbert. This document hereby grants the libzmq project team to relicense libzmq, including all past, present and future contributions of the author listed above.

Jack Pimbert
2019/05/24

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to
freedom, not
price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether

gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this

License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major

Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction

and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is

released under this License and any conditions added under section
7. This requirement modifies the requirement in section
4 to
"keep intact all notices".

c) You must license the entire work, as a whole, under this
License to anyone who comes into possession of a copy. This
License will therefore apply, along with any applicable section 7
additional terms, to the whole of the work, and all its parts,
regardless of how they are packaged. This License gives no
permission to license the work in any other way, but it does not
invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display
Appropriate Legal Notices; however, if the Program has interactive
interfaces that do not display Appropriate Legal Notices, your
work need not make them do so.

A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

a) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by the
Corresponding Source fixed on a durable physical medium
customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years
and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the

product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source
in the same way through the same place at no
further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source
as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty
or limiting liability differently from the
terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on

those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the

additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights
granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For
purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting

any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public
License.

Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

14. Revised Versions of this License.

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

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

If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

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

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

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

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

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

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

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

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

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

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

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

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to
do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by John T. Conklin
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "johntconklin", with
commit author "J.T. Conklin <jtc@acorntoolworks.com>", are copyright of John T. Conklin.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

John T. Conklin
2017-03-19
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Tobias Schlter
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "TobiSchluter", with
commit author "TobiSchluter", are copyright of Tobias Schlter .
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Tobias Schlter
2019/09/13
# Permission to Relicense under MPLv2

This is a statement by Ricardo Catalinas Jimenez
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "jimenezrick", with
commit author "Ricardo Catalinas Jimenez", are copyright of Ricardo
Catalinas Jimenez.
This document hereby grants the libzmq project team to relicense
libzmq,
including all past, present and future contributions of the author
listed above.

Ricardo Catalinas Jimenez
2020/02/03
# Permission to Relicense under MPLv2

This is a statement by Connamara Systems llc
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "cbusbey", with
commit author "chris busbey", are copyright of Connamara Systems, llc.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Chris Busbey
2019/09/03
# Permission to Relicense under MPLv2

This is a statement by Fredrick Paul Eisele
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle phreed, with
commit author "Fred Eisele", are copyright of Fred Eisele .
This document hereby grants the libzmq project team to relicense
libzmq,
including all past, present and future contributions of the author
listed above.

Fredrick Paul Eisele
2020/01/03
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Jonathan Reams
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "jbreams", with
commit author "Jonathan Reams <jbreams@gmail.com>", are copyright of
Jonathan Reams.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed
above.

Jonathan Reams
2019/08/31
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Sergey KHripchenko
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other

Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "shripchenko", with
commit author "Sergey KHripchenko <shripchenko@intermedia.net>", are copyright of Sergey KHripchenko.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Sergey KHripchenko
2017/03/20
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Joe Eli McIlvain
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "jemc", with
commit author "Joe Eli McIlvain", are copyright of Joe Eli McIlvain.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Joe Eli McIlvain
2017/03/28
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Thomas Braun
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "t-b", with
commit author "thomas.braun@virtuell-zuhause.de" and "thomas.braun@byte-physics.de", are copyright of Thomas Braun.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Thomas Braun
2017/03/27
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Chuck Remes
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "chuckremes", with
commit author "Chuck Remes", are copyright of Chuck Remes.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Chuck Remes
2017/03/21
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Jovan Bunjevacki that grants permission to
relicense its copyrights in the libzmq C++ library (ZeroMQ) under the
Mozilla Public License v2 (MPLv2) or any other Open Source Initiative
approved license chosen by the current ZeroMQ BDFL (Benevolent
Dictator for Life).

A portion of the commits made by the Github handle "bjovke", with
commit author "Jovan Bunjevacki <bjovan@gmail.com>", are
copyright of Jovan Bunjevacki.  This document hereby grants the libzmq
project team to relicense libzmq, including all past, present and
future contributions of the author listed above.

Jovan Bunjevacki
2017/04/04
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Michael Vilim that grants permission to
relicense its copyrights in the libzmq C++ library (ZeroMQ) under the
Mozilla Public License v2 (MPLv2) or any other Open Source Initiative
approved license chosen by the current ZeroMQ BDFL (Benevolent
Dictator for Life).

A portion of the commits made by the Github handle "mvilim", with
commit author "Michael Vilim
<697a9b924bfa6f06a81e82975ddca4785b90a7b40d91044ce76f68d3bd65a9b8@697a9b924bfa6f06a81e82975ddca4
785b90a7b40d91044ce76f68d3bd65a9b8.com>", are
copyright of Michael Vilim.  This document hereby grants the libzmq
project team to relicense libzmq, including all past, present and
future contributions of the author listed above.

Michael Vilim
2019/08/31
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Andre Caron
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ

BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "AndreLouisCaron", with
commit author "Andre Caron <andre.l.caron@gmail.com>", are copyright of Andre Caron.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Andre Caron
2017/03/19
# Permission to Relicense under MPLv2

This is a statement by Matthias Loy
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "mloy", with
commit author "Matthias Loy", are copyright of Matthias Loy.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Matthias Loy
2020/01/18
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Christoph Schulz
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "schulzch", with
commit author "Christoph Schulz <schulzcbs@gmail.com>", are copyright of Christoph Schulz.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Christoph Schulz
2018/09/10
# Permission to Relicense under MPLv2 or any other share-alike OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Andreas Rottmann that grants permission to
relicense its copyrights in the libzmq C++ library (ZeroMQ) under the
Mozilla Public License v2 (MPLv2) or any other share-alike Open Source
Initiative approved license chosen by the current ZeroMQ BDFL
(Benevolent Dictator for Life).

A portion of the commits made by the Github handle "rotty", with
commit author "Andreas Rottmann <a.rottmann@gmx.at>", are copyright of

Andreas Rottmann.  This document hereby grants the libzmq project team
to relicense libzmq, including all past, present and future
contributions of the author listed above.

Andreas Rottmann
2017/05/07
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Timothy Mossbarger
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "Prarrot", with
commit author "Prarrot", are copyright of Timothy Mossbarger .
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Timothy Mossbarger
18 Feb 2019
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Simon Giesecke that grants permission to
relicense its copyrights in the libzmq C++ library (ZeroMQ) under the
Mozilla Public License v2 (MPLv2) or any other Open Source Initiative
approved license chosen by the current ZeroMQ BDFL (Benevolent
Dictator for Life).

A portion of the commits made by the Github handle "sigiesec", with
commit author "Simon Giesecke <simon.giesecke@btc-ag.com>", are
copyright of Simon Giesecke.  This document hereby grants the libzmq
project team to relicense libzmq, including all past, present and
future contributions of the author listed above.

Simon Giesecke
2017/08/17
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Martin Labsch on behalf of KST innovations GmbH that grants permission to
relicense its copyrights in the libzmq C++ library (ZeroMQ) under the
Mozilla Public License v2 (MPLv2) or any other Open Source Initiative
approved license chosen by the current ZeroMQ BDFL (Benevolent
Dictator for Life).

A portion of the commits made by the Github handle "martin-ksti", with
commit author "Martin Labsch <martin.labsch@ksti.de>", are
copyright of Martin Labsch on behalf of KST innovations GmbH. This document hereby grants the libzmq

project team to relicense libzmq, including all past, present and
future contributions of the author listed above.

Martin Labsch
2020/10/09
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Anthony Scemama
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "scemama", with
commit author "Anthony Scemama <scemama@irsamc.ups-tlse.fr>", are copyright of Anthony Scemama.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Anthony Scemama
2017/03/21
# Permission to Relicense under MPLv2

This is a statement by Joerg Kreuzberger
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "kreuzberger", with
commit author "Joerg Kreuzberger", are copyright of Joerg Kreuzberger .
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Joerg Kreuzberger
2019/09/02
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Diego Fons
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "dfons", with
commit author "Diego Fons <diego.fons@gmail.com>" or "Diego Fons <diego.fons@intraway.com>", are
copyright of Diego Fons.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Diego Fons

2017/03/20
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Guido Vranken that grants permission to
relicense its copyrights in the libzmq C++ library (ZeroMQ) under the
Mozilla Public License v2 (MPLv2) or any other Open Source Initiative
approved license chosen by the current ZeroMQ BDFL (Benevolent
Dictator for Life).

A portion of the commits made by the Github handle "guidovranken", with
commit author "Guido Vranken <guidovranken@gmail.com>", are
copyright of Guido Vranken.  This document hereby grants the libzmq
project team to relicense libzmq, including all past, present and
future contributions of the author listed above.

Guido Vranken
2019/01/08
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Byron Mallett
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "mystfit", with
commit author "Byron Mallett <byronated@gmail.com>", are copyright of Byron Mallett .
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Byron Mallett
2018/9/1
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Gudmundur Adalsteinsson that grants permission to
relicense its copyrights in the libzmq C++ library (ZeroMQ) under the
Mozilla Public License v2 (MPLv2) or any other Open Source Initiative
approved license chosen by the current ZeroMQ BDFL (Benevolent
Dictator for Life).

A portion of the commits made by the Github handle "gummif", with
commit author "Gudmundur Adalsteinsson <ofpgummi@yahoo.com>", are
copyright of Gudmundur Adalsteinsson.  This document hereby grants the libzmq
project team to relicense libzmq, including all past, present and
future contributions of the author listed above.

Gudmundur Adalsteinsson

2020/02/04
# Permission to Relicense under MPLv2 or any other share-alike OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by {{ name of company / name of individual }}
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
share-alike Open Source Initiative approved license chosen by the current
ZeroMQ BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "{{github username}}", with
commit author "{{github commit author}}", are copyright of {{ name }} .
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

{{ Full Name }}
{{ creation date of document (format: yyyy/mm/dd) }}
# Permission to Relicense under MPLv2

This is a statement by Rosen Penev
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "flub", with
commit author "Rosen Penev <rosenp@gmail.com>", are copyright of
Rosen Penev .
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Rosen Penev
2019/04/19
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by niXman (github.nixman@pm.me)
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "niXman", with
commit author "niXman", are copyright of nixMan .
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

niXman (github.nixman@pm.me)
2019/10/03
# Permission to Relicense under MPLv2

This is a statement by Pavel Pimenov
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle pavel-pimenov, with
commit author Pavel Pimenov pavel.pimenov@gmail.com, are copyright of Pavel Pimenov .
This document hereby grants the libzmq project team to relicense
libzmq,
including all past, present and future contributions of the author
listed above.

Pavel Pimenov
2020/02/04
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Vincent Tellier
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "vtellier", with
commit author "Vincent Tellier", are copyright of Vincent Tellier .
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Vincent Louis Thophile Tellier
2017/03/20
# Permission to Relicense under MPLv2

This is a statement by Spotify AB that grants permission to relicense its
copyrights in the libzmq C++ library (ZeroMQ) under the Mozilla Public License
v2 (MPLv2).

A portion of the commits made by the Github handle "gimaker", with commit author
"Staffan Gimker", the commits made by the Github handle "danielnorberg", with
commit author "Daniel Norberg", and the commits made by the Github handle
"caipre", with commit author "Nick Platt", are copyright of Spotify AB. This
document hereby grants the libzmq project team to relicense libzmq, including
all past, present and future contributions of the authors listed above.

Nick Platt <nickplatt@spotify.com>
2019/08/21
# Permission to Relicense under MPLv2

This is a statement by Thomas M. DuBuisson
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "tommd", with
commit author "Thomas M. DuBuisson", are copyright of Thomas M. DuBuisson.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Thomas M. DuBuisson
2019/04/11
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Dmitrii (Dima) Pasechnik
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "dimpase", with
commit author "Dima Pasechnik dimpase@gmail.com", are copyright of Dmitrii Pasechnik.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Dmitrii Pasechnik  2019/09/18
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Stefan Radomski
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "sradomski", with
commit author "Stefan Radomski <radomski@tk.informatik.tu-darmstadt.de>", are copyright of Stefan Radomski .
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Stefan Radomski
2020/12/20
Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Jean Airoldie that grants permission to relicense its copyrights in the libzmq C++ library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other Open Source Initiative approved license chosen by the current ZeroMQ BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "jean-airoldie", with commit author "jean-airoldie <25088801+jean-airoldie@users.noreply.github.com>", are copyright of Jean Airoldie. This document hereby grants the libzmq project team to relicense libzmq, including all past, present and future contributions of the author listed above.

Jean Airoldie 2019/04/27
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Stephane Vales
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "StephaneVales", with
commit author "Stephane Vales <7755128+stvales@users.noreply.github.com>", are copyright of Stephane Vales.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Stephane Vales
2020/08/06
# Permission to Relicense under MPLv2

This is a statement by Nokia
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "aheroff1", with
commit author "Andy Heroff", are copyright of Nokia.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Andy Heroff
2021/01/05
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Johan Mabille
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "JohanMabille", with
commit author "Johan Mabille johan.mabille@gmail.com", are copyright of Johan Mabille.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Johan Mabille
2017/03/20
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Maarten Ditzel
that grants permission to relicense its copyrights in the libzmq C++

library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "mditzel", with
commit author "Maarten Ditzel <maarten.ditzel@gmail.com>", are copyright of Maarten Ditzel.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Maarten Ditzel
2017/03/24
## Brocade Communications Systems Inc.

This is a statement by Brocade Communications Systems Inc. (Brocade)
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "bluca", with
commit author "Luca Boccassi <luca.boccassi@gmail.com>" or
"Luca Boccassi <lboccass@brocade.com>", are copyright of Brocade.
This permission to relicense includes all past, present and future
contributions of Brocade employees.

Luca Boccassi
Software Engineer, Brocade Communications Systems Inc.
2016-05-16
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Ming Ji
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "answeroo", with
commit author "answeroo <jiming@yafco.com>", are copyright of Ming Ji.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Ming Ji
2018/08/20
# Permission to Relicense under MPLv2

This is a statement by Liquid Instruments
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "acsearle", with

commit author "Antony Searle", are copyright of Liquid Instruments .
This document hereby grants the libzmq project team to relicense
libzmq, including all past, present and future contributions of the author
listed above.

Antony Searle
2020/02/03
# Permission to Relicense under MPLv2

This is a statement by Olaf Mandel
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "olafmandel", with
commit author "Olaf Mandel <o.mandel@menlosystems.com>", are copyright of Olaf Mandel.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Olaf Mandel
2017/03/21
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by "Michal Vyskocil" that grants permission to relicense its copyrights in the libzmq C++ library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other Open Source Initiative approved license chosen by the current ZeroMQ BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "vyskocilm", with commit author "Michal Vyskocil michal.vyskocil@gmail.com", are copyright of "Michal Vyskocil". This document hereby grants the libzmq project team to relicense libzmq, including all past, present and future contributions of the author listed above.

Michal Vyskocil 2017/03/24
# Permission to Relicense under MPLv2

This is a statement by Jrmie Courrges-Anglas
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "jcourreges", with
commit author "Jrmie Courrges-Anglas", are copyright of Jrmie Courrges-Anglas.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Jrmie Courrges-Anglas
2018/12/07
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Jens Auer
that grants permission to relicense its copyrights in the libzmq C++

library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "jens.auer", with
commit author "Jens Auer", are copyright of Jens Auer.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Jens Auer
2019/11/08
# Permission to Relicense under MPLv2

This is a statement by Benjamin Deroche
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "benjdero", with
commit author "Benjamin Deroche", are copyright of Benjamin Deroche.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Benjamin Deroche
2019/10/26
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Diorcet Yann
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "diorcety", with
commit author "yann.diorcet@xenocs.com", are copyright of Diorcet Yann.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Diorcet Yann
2019/09/04
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Justin.Hung
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "loachfish", with

commit author "Justin.Hung fronront@qq.com", are copyright of Justin.Hung .
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Justin.Hung
2017/03/20
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Andrew Thompson
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "thompsa", with
commit author "Andew Thompson <andy@fud.org.nz>", are copyright of Andrew Thompson.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Andrew Thompson
2017/03/20
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Mikko Koppanen that grants permission to relicense his
copyrights in the libzmq C++ library (ZeroMQ) under the Mozilla Public License
v2 (MPLv2) or any other Open Source Initiative approved license chosen by the
current ZeroMQ BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "mkoppanen", with commit
author "Mikko Koppanen <mikko@kuut.io>", are copyright of Mikko Koppanen.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed
above.

Mikko Koppanen
2018/02/17
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Martin Grigorov
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "martin-g", with
commit author "Martin Grigorov", are copyright of Martin Grigorov.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Martin Grigorov
2021/01/11
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by "Osiris Pedroso"
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "opedroso", with
commit author "Osiris Pedroso <opedroso@gmail.com>", are copyright of "Osiris Pedroso".
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Osiris Pedroso
2017/03/21
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Christoph Kahl that grants permission to relicense its copyrights in the libzmq C++ library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other Open Source Initiative approved license chosen by the current ZeroMQ BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "kanonet", with commit author "Christoph Kahl", are copyright of Christoph Kahl. This document hereby grants the libzmq project team to relicense libzmq, including all past, present and future contributions of the author listed above.

Christoph Kahl
2020/01/09
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Philippe Leite that grants permission to
relicense its copyrights in the libzmq C++ library (ZeroMQ) under the
Mozilla Public License v2 (MPLv2) or any other Open Source Initiative
approved license chosen by the current ZeroMQ BDFL (Benevolent
Dictator for Life).

A portion of the commits made by the Github handle "philippeleite", with
commit author "Philippe Leite <philippe.leite@gmail.com>", are
copyright of Philippe Leite.  This document hereby grants the libzmq
project team to relicense libzmq, including all past, present and
future contributions of the author listed above.

Philippe Leite
2019/06/10
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Wenbin Hou
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "WenbinHou", with
commit author "Wenbin Hou <houwenbin@pku.edu.cn>", are copyright of Wenbin Hou.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Wenbin Hou
2018/05/16
# Permission to Relicense under MPLV2

This document collects grants from firms that hold copyrights in ZeroMQ. Please add new firms at the start. Each patch must be made with a GitHub handle that guarantees identity of the signatory.

## iMatix Corporation

This is a statement by iMatix Corporation sprl (iMatix) that grants permission to relicense its copyrights in the libzmq C++ library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

1. The original ZeroMQ codebase was developed from 2007-2009 by FastMQ Inc. (FastMQ) in Slovakia, which held all copyrights in code written by its staff.

2. On 2009-11-01, iMatix exercised an option to acquire FastMQ and its assets,
including ZeroMQ. On or before 2010-01-05 the FastMQ copyrights in ZeroMQ were
transferred to iMatix
([commit](https://github.com/zeromq/libzmq/commit/4f6baf4dde627656b63cc4e2acdb78a8577ba640)). The FastMQ legal entity was subsequently liquidated.

3. Between 2009 and 2016, iMatix has continued to add contributions to
ZeroMQ under the GitHub handle 'hintjens'.

4. This grant therefore covers what remains of the original FastMQ codebase plus all later contributions.

5. iMatix hereby grants an irrevocable, global, and fully paid-up license on all its copyrights that exist in ZeroMQ, under the MPLv2.

-Pieter Hintjens
CEO, iMatix Corporation sprl
23 April 2016
# Permission to Relicense under MPLv2

This is a statement by Floris Bruynooghe
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "flub", with
commit author "Floris Bruynooghe <flub@devork.be>", are copyright of
Floris Bruynooghe .
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Floris Bruynooghe
2017/05/03
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Conrad Parker that grants permission to
relicense its copyrights in the libzmq C++ library (ZeroMQ) under the
Mozilla Public License v2 (MPLv2) or any other Open Source Initiative
approved license chosen by the current ZeroMQ BDFL (Benevolent
Dictator for Life).

A portion of the commits made by the Github handle "kfish", with
commit author "Conrad Parker <conrad@metadecks.org>", are
copyright of Conrad Parker.  This document hereby grants the libzmq
project team to relicense libzmq, including all past, present and
future contributions of the author listed above.

Conrad Parker
2018/10/30
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Jeff Brubaker that grants permission to
relicense its copyrights in the libzmq C++ library (ZeroMQ) under the
Mozilla Public License v2 (MPLv2) or any other Open Source Initiative
approved license chosen by the current ZeroMQ BDFL (Benevolent
Dictator for Life).

A portion of the commits made by the Github handle "brubakerjeff", with
commit author "Jeff Brubaker <brubaker.jeff@gmail.com>", are
copyright of Jeff Brubaker.  This document hereby grants the libzmq
project team to relicense libzmq, including all past, present and
future contributions of the author listed above.

Jeff Brubaker
2018/11/18
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Daniel Shih
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "danielhtshih", with
commit author "Daniel Shih <hotingwow@gmail.com>", are copyright of Daniel Shih.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Daniel Shih
2017/03/20
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Bastian Lher that grants permission to
relicense its copyrights in the libzmq C++ library (ZeroMQ) under the
Mozilla Public License v2 (MPLv2) or any other Open Source Initiative
approved license chosen by the current ZeroMQ BDFL (Benevolent
Dictator for Life).

A portion of the commits made by the Github handle "bl0x", with
commit author "Bastian Lher <me@l-dot.de>", are
copyright of Bastian Lher.  This document hereby grants the libzmq
project team to relicense libzmq, including all past, present and
future contributions of the author listed above.

Bastian Lher
2019/08/01
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Diego R.Losada
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "drodri", with
commit author "drodri <diego.rlosada@gmail.com>", are copyright of Diego Rodriguez-Losada.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Diego Rodriguez-Losada
2017/03/20
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Gian Lorenzo Meocci
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "meox", with

commit author "Gian Lorenzo Meocci <glmeocci@gmail.com>", are copyright of Gian Lorenzo Meocci.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Gian Lorenzo Meocci
2017/04/09
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Giuseppe Corbelli
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "cowo78" with
commit author "Giuseppe Corbelli <cowo78@gmail.com>", are copyright of Giuseppe Corbelli.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Giuseppe Corbelli
2017/03/21
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Wouter Overmeire that grants permission to relicense its
copyrights in the libzmq C++ library (ZeroMQ) under the Mozilla Public License
v2 (MPLv2) or any other Open Source Initiative approved license chosen by the
current ZeroMQ BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "lodagro", with commit
author "lodagro <lodagro@gmail.com>", are copyright of Wouter Overmeire.  This
document hereby grants the libzmq project team to relicense libzmq, including
all past, present and future contributions of the author listed above.

Wouter Overmeire
2017/04/01
Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL
This is a statement by Roberto Santacroce Martins that grants permission to relicense its copyrights in the libzmq C++ library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other Open Source Initiative approved license chosen by the current ZeroMQ BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "mileschet", with commit author "Roberto Santacroce Martins miles.chet@gmail.com", are copyright of Roberto Santacroce Martins. This document hereby grants the libzmq project team to relicense libzmq, including all past, present and future contributions of the author listed above.

Roberto Santacroce Martins 2020/07/06
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Ilya Kulakov

that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "kentzo", with
commit author "Ilya Kulakov <kulakov.ilya@gmail.com>", are copyright of Ilya Kulakov.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Ilya Kulakov
2017/05/23
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Florian Ebeling that grants permission to
relicense its copyrights in the libzmq C++ library (ZeroMQ) under the
Mozilla Public License v2 (MPLv2) or any other Open Source Initiative
approved license chosen by the current ZeroMQ BDFL (Benevolent
Dictator for Life).

A portion of the commits made by the Github handle "febeling", with
commit author "Florian Ebeling <florian.ebeling@gmail.com>", are
copyright of Florian Ebeling.  This document hereby grants the libzmq
project team to relicense libzmq, including all past, present and
future contributions of the author listed above.

Florian Ebeling
2017/03/20
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Robert Gagnon that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other Open Source Initiative approved
license chosen by the current ZeroMQ BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "rgagnon24", with commit author
"Robert Gagnon rgagnon24+zmq@gmail.com", are copyright of Robert Gagnon.  This document hereby grants the
libzmq project team to relicense libzmq, including all past, present and future contributions of the
author listed above.

Robert Gagnon
2017/03/19
# Permission to Relicense under MPLv2

This is a statement by Kapp Arnaud
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "xaqq", with

commit author "Kapp Arnaud", are copyright of Kapp Arnaud.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Kapp Arnaud
2017/03/30
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Weidmueller Interface GmbH & Co KG
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "herbrechtsmeier", with
commit author "Stefan Herbrechtsmeier", are copyright of Weidmueller Interface GmbH & Co KG.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Stefan Herbrechtsmeier
2019/09/09
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Mike Gatny (mgatny) that grants permission to relicense
his copyrights in the libzmq C++ library (ZeroMQ) under the Mozilla Public
License v2 (MPLv2) or any other Open Source Initiative approved license chosen
by the current ZeroMQ BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "mgatny", with commit author
"Mike Gatny <mgatny@gmail.com>" or "Mike Gatny <mgatny@connamara.com>", are
copyright of Mike Gatny.  This document hereby grants the libzmq project team
to relicense libzmq, including all past, present and future contributions of
the author listed above.

Mike Gatny
2019/02/19
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement byEvgeny (Jim) Klimov
that grants permission to relicense his copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "jimklimov",
with commit author "Jim Klimov <jim@jimklimov.com>" or
"Jim Klimov <jimklimov@gmail.com>", are copyright of Evgeny (Jim) Klimov.
This document hereby grants the libzmq project team to relicense libzmq,

including all past, present and future contributions of the author listed
above.

Evgeny (Jim) Klimov
2017/03/21
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by C-Sir
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "C-Sir", with
commit author "C-Sir <942510829@qq.com>", are copyright of C-Sir.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

C-Sir
2020/09/28
# Permission to Relicense under MPLv2

This is a statement by Antonio Vanegas that grants permission to relicense its copyrights in the libzmq C++ library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "hpsaturn", with commit author "Antonio Vanegas", are copyright of Antonio Vanegas.
This document hereby grants the libzmq project team to relicense libzmq, including all past, present and future contributions of the author listed above.

Antonio Vanegas
2018/10/27
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Latchmoor Services, LLC
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "drbitboy", with
commit author "Brian Carcich <drbitboy@gmail.com>", are copyright of Latchmoor
Services, LLC.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Latchmoor Services, LLC
2019/07/26

# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Dongmin Yu
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "miniway", with
commit author "Dongmin Yu <miniway@gmail.com>", are copyright of Dongmin Yu.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Dongmin Yu
2019/08/12
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Kymeta Corporation
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "opensource-kymetacorp", with
commit author "opensource-kymetacorp", are copyright of Kymeta Corporation.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Kymeta Corporation
2018/11/21
# Permission to Relicense under MPLv2

This is a statement by Hendrik Beskow
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "Asmod4n", with
commit author "Asmod4n Asmod4n@users.noreply.github.com", are copyright of Hendrik Beskow.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Hendrik Beskow
2017/04/21
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Stoian Ivanov that grants permission to relicense
its copyrights in the libzmq C++ library (ZeroMQ) under the Mozilla Public
License v2 (MPLv2) or any other Open Source Initiative approved license

chosen by the current ZeroMQ BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "sdrsdr", with commit
author "Stoian Ivanov sdr@mail.bg", are copyright of Stoian Ivanov. This
document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Stoian Ivanov
2017-03-23
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Dan Riegsecker
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "danriegsecker", with
commit author "Dan Riegsecker 1baldgeek@gmail.com", are copyright of
Dan Riegsecker. This document hereby grants the libzmq project team to
relicense libzmq, including all past, present and future contributions of
the author listed above.

Dan Riegsecker
2017/03/20
# Permission to Relicense under MPLv2

This is a statement by Juraj Oruli that grants permission to relicense its copyrights in the libzmq C++ library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "ojura", with commit author "Juraj Oruli", are copyright of Juraj Oruli.
This document hereby grants the libzmq project team to relicense libzmq, including all past, present and future contributions of the author listed above.

Juraj Oruli
2018/10/26
# Permission to Relicense under MPLv2

This is a statement by Telford Berkey
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "tberkey", with
commit author "Telford Berkey <tberkey@gmail.com>", are copyright of Telford Berkey.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Telford Berkey

03 Feb 2020
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Gennady Makovetski
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "gena-moscow", with
commit author "Gennady Makovetski <makovetski@gmail.com>", are copyright of Gennady Makovetski.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Gennady Makovetski
2017/03/21
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Samuel Martin
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "tSed", with
commit author "Samuel Martin <s.martin49@gmail.com>", are copyright of Samuel Martin.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Samuel Martin
2017/03/25
# Permission to Relicense under MPLv2

This is a statement by Daniel Krikun
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "dkrikun", with
commit author "Daniel Krikun", are copyright of Daniel Krikun .
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Daniel Krikun
2019/08/17
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Andrei Tomashpolskiy
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "atomashpolskiy", with
commit author "Andrei Tomashpolskiy <nordmann89@gmail.com>", are copyright of Andrei Tomashpolskiy .
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Andrei Tomashpolskiy
2019/08/22
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Tarmo Tnav that grants permission to
relicense its copyrights in the libzmq C++ library (ZeroMQ) under the
Mozilla Public License v2 (MPLv2) or any other Open Source Initiative
approved license chosen by the current ZeroMQ BDFL (Benevolent
Dictator for Life).

A portion of the commits made by the Github handle "tarmo", with
commit author "Tarmo Tnav <tarmo@itech.ee>", are copyright of Tarmo Tnav.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Tarmo Tnav
2020/08/29
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Dries Harnie
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "Botje", with
commit author "Dries Harnie <dries@harnie.be>", are copyright of Dries Harnie.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Dries Harnie
2019/10/31
# Permission to Relicense under MPLv2

This is a statement by Quantum Corporation
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "vortechs2000", with
commit author "AJ Lewis aj.lewis@quantum.com", are copyright of Quantum Corporation.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

AJ Lewis
2019/02/21
# Permission to Relicense under MPLv2

This is a statement by Frdric Trgon
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "FredTreg", with
commit author "Frederic Tregon <frederic.tregon@gmail.com>", are copyright of Frdric Trgon.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Frdric Trgon
2020/02/03
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Mrio Kauba
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "soulik", with
commit author "Mrio Kauba mario.kasuba@it-academy.sk", are copyright of Mrio Kauba.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Mrio Kauba
2017/03/20
# Permission to Relicense under MPLv2

This is a statement by IVU Traffic Technologies AG
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "jruffin", with
commit author "Julien Ruffin <jur@ivu.de>", are copyright of IVU Traffic Technologies AG.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Henrik Benner

Head of Department Ticketing Development, IVU Traffic Technologies AG
2017/05/10
# Permission to Relicense under MPLv2

This is a statement by Roal Zanazzi that grants permission to relicense its
copyrights in the libzmq C++ library (ZeroMQ) under the Mozilla Public License
v2 (MPLv2).

A portion of the commits made by the Github handle "roalz", with commit author
"roalz <roal.zanazzi@gmail.com>", are copyright of Roal Zanazzi.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Roal Zanazzi
2017/03/21
# Permission to Relicense under MPLv2

This is a statement by Chih-Hsuan Yen
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "yan12125", with
commit author "Chih-Hsuan Yen <yan12125@gmail.com>", are copyright of Chih-Hsuan Yen.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Chih-Hsuan Yen
2019/10/12
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Adam Seering
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commit made by the Github handle "aseering", with
commit author "Adam Seering <aseering@gmail.com>", are copyright of Adam Seering.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Adam Seering
2017/03/20
# Permission to Relicense under MPLv2

This is a statement by Aleksander Melnikov
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "malexzx", with
commit author "Aleksander Melnikov", are copyright of Aleksander Melnikov.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Aleksander Melnikov
2019/08/11
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by H. Eduardo Montoya Snchez
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "montoyaedu", with
commit author "Montoya Edu <montoya.edu@gmail.com>", are copyright of H. Eduardo Montoya Snchez.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

H. Eduardo Montoya Snchez
2017/03/20
# Permission to Relicense under MPLv2

This is a statement by trya.
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "trya", with
commit author "trya", are copyright of trya.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

trya
2019/09/23
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Arkadiusz Drabczyk (ardrabczyk) that grants
permission to relicense his copyrights in the libzmq C++ library
(ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other Open
Source Initiative approved license chosen by the current ZeroMQ BDFL
(Benevolent Dictator for Life).

A portion of the commits made by the Github handle "ardrabczyk", with
commit author "Arkadiusz Drabczyk <arkadiusz@drabczyk.org>", are
copyright of Arkadiusz Drabczyk. This document hereby grants the
libzmq project team to relicense libzmq, including all past, present

and future contributions of the author listed above.

Arkadiusz Drabczyk
2020/11/10
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Jacques Germishuys that grants permission to
relicense its copyrights in the libzmq C++ library (ZeroMQ) under the
Mozilla Public License v2 (MPLv2) or any other Open Source Initiative
approved license chosen by the current ZeroMQ BDFL (Benevolent
Dictator for Life).

A portion of the commits made by the Github handle "jacquesg", with
commit author "Jacques Germishuys <jacquesg@striata.com>", are
copyright of Jacques Germishuys.  This document hereby grants the libzmq
project team to relicense libzmq, including all past, present and
future contributions of the author listed above.

Jacques Germishuys
2018/12/14
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Manca George
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "mancasg", with
commit author "Manca George <mancas.f.george@gmail.com>", are copyright of Manca George .
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Manca George
2019/07/24
# Permission to Relicense under MPLV2 or any Open Source Initiative (OSI) approved license chosen by the
current ZeroMQ BDFL

This is a statement by Nick Guiffrida that grants permission to
relicense its copyrights in the libzmq C++ library (ZeroMQ) under the
Mozilla Public License v2 (MPLv2) or any other Open Source Initiative
approved license chosen by the current ZeroMQ BDFL (Benevolent
Dictator for Life).

The commits made by the Github handle "goodfella", with commit author
"Nick Guiffrida goodfella005@gmail.com" are copyright of Nick
Guiffrida. This document hereby grants the libzmq project team to
relicense libzmq, including all past, present and future contributions

of the author listed above.
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by aixxe (aixxe)
that grants permission to relicense his copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "aixxe", with commit author
"aixxe <me@aixxe.net>" are copyright of aixxe.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

aixxe
2019/07/25
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Lonard Michelet
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current
ZeroMQ BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "leonarf", with
commit author "Lonard Michelet <leonard.michelet@openwide.fr>", are copyright of Lonard Michelet.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Michelet Lonard 2017/03/29
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by crocket
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "crocket", with
commit author "crocket <748856+crocket@users.noreply.github.com>", are copyright of crocket.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

crocket
2018/11/10
# Permission to Relicense under MPLv2

This is a statement by Ricardo Catalinas Jimenez

that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "xantares", with
commit author "Michel Zou <xantares09@hotmail.com>", are copyright of Michel Zou.
This document hereby grants the libzmq project team to relicense
libzmq,
including all past, present and future contributions of the author
listed above.

Michel Zou
2020/02/03
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Eric Voskuil
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "evoskuil", with
commit author "Eric Voskuil <eric@voskuil.org>", are copyright of Eric Voskuil.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Eric Voskuil
2017/03/19
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Trevor Bernard (trevorbernard) that grants
permission to relicense his copyrights in the libzmq C++ library
(ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other Open
Source Initiative approved license chosen by the current ZeroMQ BDFL
(Benevolent Dictator for Life).

A portion of the commits made by the Github handle "trevorbernard",
with commit author "Trevor Bernard <trevor.bernard@gmail.com>", are
copyright of Trevor Bernard. This document hereby grants the libzmq
project team to relicense libzmq, including all past, present and
future contributions of the author listed above.

Trevor Bernard
2019/02/25
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Dennis Klein
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other

Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "dennisklein", with
commit author "Dennis Klein <d.klein@gsi.de>", are copyright of Dennis Klein.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Dennis Klein
2019/08/11
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Constantin Rack
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "c-rack", with
commit author "Constantin Rack <constantin.rack@gmail.com>", are copyright of Constantin Rack.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Constantin Rack
2017/03/20
# Permission to Relicense under MPLv2

This is a statement by {{ name of company / name of individual }}
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "{{github username}}", with
commit author "{{github commit author}}", are copyright of {{ name }} .
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

{{ Full Name }}
{{ creation date of document (format: yyyy/mm/dd) }}
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by serg06 (serg06)
that grants permission to relicense his copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "serg06", with commit author
"serg06 <serkhas@hotmail.com>" are copyright of serg06.

This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

serg06
2020/05/25
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Marc Su Clos (msune)
that grants permission to relicense his copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "msune", with
commit author "Marc Sune <marcdevel@gmail.com>" or
"Marc Sune <marc@voltanet.io>", are copyright of Marc Su.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed
above.

Marc Su Clos
2019/08/31
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Thomas Rodgers
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "rodgert", with
commit author "Thomas Rodgers <rodgert@twrodgers.com>", are copyright
of Thomas Rodgers.

This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Thomas W Rodgers
2017/04/08
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Uli Khler.
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

All commits made by the Github handle "ulikoehler", with

commit author "Uli Khler", are copyright of Uli Khler.

This document hereby grants the libzmq project team to relicense libzmq and / or CZMQ,
including all past, present and future contributions of the author listed above.

Uli Khler
2017/03/25
# Permission to Relicense under MPLv2

This is a statement by Mark Barbisan
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "mbarbisan", with
commit author "Mark Barbisan <mark@barbisan.ca>", are copyright of Mark Barbisan.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Mark Barbisan
2019/08/31
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Anonymous Maarten
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "madebr", with
commit author "Anonymous Maarten <anonymous.maarten@gmail.com>", are copyright of Anonymous Maarten.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Anonymous Maarten
2017/03/27
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Doron Somech (somdoron)
that grants permission to relicense his copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "somdoron", with
commit author "Doron Somech <somdoron@gmail.com>", are copyright of Doron Somech.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed
above.

Doron Somech
2019/02/18
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Felipe Goron Farinon (psl-felipefarinon)
that grants permission to relicense his copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "psl-felipefarinon", with
commit author "Felipe Goron Farinon", are copyright of Felipe Goron Farinon.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed
above.

Felipe Goron Farinon
2019/09/02
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Rishi Theivendan (inuik)
that grants permission to relicense his copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "inuik", with
commit author "Rishi Theivendran <29522253+inuik@users.noreply.github.com>" or
"Rishi Theivendran <rishi.theivendran@rohde-schwarz.com>", are copyright of Rishi Theivendran.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed
above.

Rishi Theivendran
2019/07/18
The MIT License (MIT)

Copyright (c) <year> 2007-14 Mike Karlesky, Mark VanderVoord, Greg Williams

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

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

all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
# Permission to Relicense under MPLv2

This is a statement by Matthias Gabriel
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "gabm", with
commit author "Matthias Gabriel <matthias.gabriel@etit.tu-chemnitz.de>", are copyright of Matthias Gabriel.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Matthias Gabriel
2018/10/8
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Alexander Straub
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "straubar", with
commit author "Alexander Straub <alexander.straub@visus.uni-stuttgart.de>", are copyright of Alexander Straub.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Alexander Straub
2019/09/04
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Christian Kamm
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "ckamm", with
commit author "Christian Kamm kamm@incasoftware.de", are copyright of Christian Kamm.

This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Christian Kamm
2017/03/20
# Permission to Relicense under MPLv2

This is a statement by grmt.
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "grmt", with
commit author "grmt", are copyright of grmt.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

grmt (garmt.noname@gmail.com)
2020/05/04
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by David Jelenc
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "djelenc", with
commit author "David Jelenc <david.jelenc@fri.uni-lj.si>", are copyright of David Jelenc.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

David Jelenc
2017/03/20
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Sbastien Rombauts
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "SRombauts", with
commit author "Sbastien Rombauts", are copyright of Sbastien Rombauts.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Sbastien Rombauts
2017/03/21

# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Nikolay Amiantov that grants permission to relicense his
copyrights in the libzmq C++ library (ZeroMQ) under the Mozilla Public License
v2 (MPLv2) or any other Open Source Initiative approved license chosen by the
current ZeroMQ BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "abbradar", with commit
author "Nikolay Amiantov <ab@fmap.me>", are copyright of Nikolay Amiantov.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed
above.

Nikolay Amiantov
2017/03/24
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Jim Garlick (garlick)
that grants permission to relicense his copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "garlick", with
commit author "Jim Garlick <garlick.jim@gmail.com>", are copyright of
Jim Garlick.  This document hereby grants the libzmq project team to
relicense libzmq, including all past, present and future contributions
of the author listed above.

Jim Garlick
2019/08/10
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Ivo Danihelka
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "fidlej", with
commit author "Ivo Danihelka <ivo@danihelka.net>", are copyright of Ivo Danihelka.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Ivo Danihelka
2017/03/21
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Gonzalo Diethelm
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "gonzus", with
commit author "Gonzalo Diethelm <gonzalo.diethelm@diethelm.org>" or "Gonzalo Diethelm
<gdiethelm@dcv.cl>", are copyright of Gonzalo Diethelm .
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Gonzalo Diethelm
2017/03/20
# Permission to Relicense under MPLv2

This is a statement by Robert G. Jakabosky
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "Neopallium", with
commit author "Robert G. Jakabosky <bobby@sharedrealm.com>", are copyright of Robert G. Jakabosky.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Robert Gabriel Jakabosky
2019/08/17
# Permission to Relicense under MPLv2

This is a statement by Thomas Chiantia
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "tomzbench", with
commit author "Thomas<Thomas@Altronix.com>", are copyright of
Thomas Chiantia.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Thomas Chiantia
2019/08/10
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by William Swanson
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "swansontec", with
commit author " William Swanson <swansontec@gmail.com>", are copyright of William Swanson.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

William Swanson
2017/04/10
# Permission to Relicense under MPLv2

This is a statement by Kevin Sapper that grants permission to relicense its
copyrights in the libzmq C++ library (ZeroMQ) under the Mozilla Public License
v2 (MPLv2).

A portion of the commits made by the Github handle "sappo", with commit author
"Kevin Sapper <mail@kevinsapper.de>", are copyright of Kevin Sapper. This document hereby grants the
libzmq project team to relicense libzmq, including all past, present and future
contributions of the author listed above.

Kevin Sapper
2017/03/20
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Takeshi Abe
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "tabe", with
commit author "Takeshi Abe <tabe@fixedpoint.jp>", are copyright of Takeshi Abe.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Takeshi Abe
2017/03/22
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Romain Moret that grants permission to
relicense its copyrights in the libzmq C++ library (ZeroMQ) under the
Mozilla Public License v2 (MPLv2) or any other Open Source Initiative
approved license chosen by the current ZeroMQ BDFL (Benevolent
Dictator for Life).

A portion of the commits made by the Github handle "moretromain", with
commit author "Romain Moret <moretromain@gmail.com>", are
copyright of Romain Moret.  This document hereby grants the libzmq
project team to relicense libzmq, including all past, present and

future contributions of the author listed above.

Romain Moret
2019/05/06
# Permission to Relicense under MPLv2

This is a statement by Pierre Yager
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "zedalaye", with
commit author "Pierre Yager <pierre.y@gmail.com>" or
"Pierre Yager <pierre.yager@crisalid.com", are copyright of Pierre Yager.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Pierre Yager
2021/01/04
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Diego Barrios Romero
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "eldruin", with
commit author "Diego Barrios Romero <eldruin@gmail.com>", are copyright of Diego Barrios Romero.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Diego Barrios Romero
2019/11/13
# Permission to Relicense under MPLv2 or any other share-alike OSI approved license chosen by the current
ZeroMQ BDFL

This is a statement by Joel Lauener
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
share-alike Open Source Initiative approved license chosen by the current
ZeroMQ BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "jlauenercern", with
commit author "Joel Lauener <Joel.Lauener@cern.ch>", are copyright of Joel Lauener .
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Joel Lauener

2019/08/12
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Micromass UK Limited
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "ricnewton", with
commit author "Richard Newton" are copyright of Micromass UK Limited.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Steve Smith
Director Micromass UK Limited
2017/04/26
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Nathan Toone that grants permission to
relicense its copyrights in the libzmq C++ library (ZeroMQ) under the
Mozilla Public License v2 (MPLv2) or any other Open Source Initiative
approved license chosen by the current ZeroMQ BDFL (Benevolent
Dictator for Life).

A portion of the commits made by the Github handle "toonetown", with
commit author "Nathan Toone <nathan@toonetown.com>", are
copyright of Nathan Toone.  This document hereby grants the libzmq
project team to relicense libzmq, including all past, present and
future contributions of the author listed above.

Nathan Toone
2018/11/05
# Permission to Relicense under MPLv2

This is a statement by Bruno Bodin
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "bbdb68", with
commit author "Bruno Bodin <brunobodin@gmail.com>", are copyright of Bruno Bodin .
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Bruno Bodin
2017/04/04
# Permission to Relicense under MPLv2 or any other share-alike OSI approved license chosen by the current
ZeroMQ BDFL

This is a statement by Lourens Naud
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
share-alike Open Source Initiative approved license chosen by the current
ZeroMQ BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "methodmissing", with
commit author "Lourens Naud <lourens@methodmissing.com>", are copyright of Lourens Naud.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Lourens Naud
2019/07/01
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Anton Dimitrov that grants permission to
relicense its copyrights in the libzmq C++ library (ZeroMQ) under the
Mozilla Public License v2 (MPLv2) or any other Open Source Initiative
approved license chosen by the current ZeroMQ BDFL (Benevolent
Dictator for Life).

A portion of the commits made by the Github handle "glemercier", with
commit author "Gregory Lemercier <greglemercier@free.fr>", are
copyright of Gregory Lmercier.  This document hereby grants the libzmq
project team to relicense libzmq, including all past, present and
future contributions of the author listed above.

Gregory Lemercier

2018/10/07
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Sylvain Corlay
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "SylvainCorlay", with
commit author "Sylvain Corlay sylvain.corlay@gmail.com", are copyright of Sylvain Corlay .
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Sylvain Corlay
2017/03/20
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Stanisaw Macia
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "stanpl", with
commit author "Stanisaw Macia", are copyright of Stanisaw Macia.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Stanisaw Macia
2020/12/23
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Shubham Lagwankar that grants permission to
relicense its copyrights in the libzmq C++ library (ZeroMQ) under the
Mozilla Public License v2 (MPLv2) or any other Open Source Initiative
approved license chosen by the current ZeroMQ BDFL (Benevolent
Dictator for Life).

A portion of the commits made by the Github handle "ssbl", with
commit author "Shubham Lagwankar <shubhu105@gmail.com>", are
copyright of Shubham Lagwankar.  This document hereby grants the libzmq
project team to relicense libzmq, including all past, present and
future contributions of the author listed above.

Shubham Lagwankar
2018/10/30
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Ghislain PUTOIS
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "ghpu", with
commit author "Ghislain PUTOIS", are copyright of Ghislain PUTOIS.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Ghislain PUTOIS
2017/03/20
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Daiyu Hurst that grants permission to
relicense its copyrights in the libzmq C++ library (ZeroMQ) under the

Mozilla Public License v2 (MPLv2) or any other Open Source Initiative
approved license chosen by the current ZeroMQ BDFL (Benevolent
Dictator for Life).

A portion of the commits made by the Github handle "daiyuhurst", with
commit author "Daiyu Hurst <daiyu.hurst@gmail.com>", are
copyright of Daiyu Hurst.  This document hereby grants the libzmq
project team to relicense libzmq, including all past, present and
future contributions of the author listed above.

Daiyu Hurst
2019/08/31
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Tore Halvorsen
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "demozon", with
commit author "Tore Halvorsen <tore.halvorsen@gmail.com>", are copyright of Tore Halvorsen.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Tore Halvorsen
2017/03/20
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Iwan Paolucci that grants permission to
relicense its copyrights in the libzmq C++ library (ZeroMQ) under the
Mozilla Public License v2 (MPLv2) or any other Open Source Initiative
approved license chosen by the current ZeroMQ BDFL (Benevolent
Dictator for Life).

A portion of the commits made by the Github handle "ipa", with
commit author "Iwan Paolucci <iwan.paolucci@gmail.com>", are
copyright oIwan Paoluccii.  This document hereby grants the libzmq
project team to relicense libzmq, including all past, present and
future contributions of the author listed above.

Iwan Paolucci
2019/04/18
# Permission to Relicense under MPLv2

This is a statement by Shannen Saez
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "shancat", with
commit author "Shannen Saez <shannenlaptop@gmail.com>", are copyright of Shannen Saez.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Shannen Saez
2017/03/21
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Timothee Besset
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "TTimo", with
commit author "Timothee Besset <ttimo@ttimo.net>", are copyright of Timothee Besset.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Timothee Besset
2017/03/19
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Bryan Gillespie (RPGillespie6)
that grants permission to relicense his copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "RPGillespie6", with
commit author "Bryan Gillespie <rpgillespie6@gmail.com>", are copyright of Bryan Gillespie.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed
above.

Bryan Gillespie
2019/09/06
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Frank R. Dana Jr.
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "ferdnyc", with

commit author "FeRD (Frank Dana)", are copyright of Frank R. Dana, Jr.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Frank Richard Dana, Jr.
2020-03-16
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Harald Achitz
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "a4z", with
commit author "Harald Achitz <harald.achitz@gmail.com>" or
"Harald Achitz <harald.achitz@tritech.se>" or
"Harald Achitz <harald.achitz@getinge.com>", are copyright of Harald Achitz.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Harald Achitz
2017/03/21
# Permission to Relicense under MPLv2

This is a statement by Douglas Young
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "rcxdude", with
commit author "Douglas Young <rcxdude@gmail.com>", are copyright of Douglas Young .
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Douglas Young
2019/08/31
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by boxkey that grants permission to relicense its copyrights in the libzmq C++ library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other Open Source Initiative approved license chosen by the current ZeroMQ BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "boxkey", with commit author "boxkey [289844900@qq.com](289844900@qq.com)", are copyright of boxkey. This document hereby grants the libzmq project team to relicense libzmq, including all past, present and future contributions of the author listed above.

boxkey 2020/11/30

This is a statement by Peter LaDow that grants permission to relicense its
copyrights in the libzmq C++ library (ZeroMQ) under the Mozilla Public
License v2 (MPLv2) or any other Open Source Initiative approved license
chosen by the current ZeroMQ BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "Suudy", with commit
author "Suudy <pladow@gmail.com>", are copyright of Peter LaDow. This
document hereby grants the libzmq project team to relicense libzmq, including
all past, present and future contributions of the author listed above.

Peter LaDow
14 August 2019
# Permission to Relicense under MPLv2

This is a statement by Jake Cobb
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "jakecobb", with
commit author "Jake Cobb <jake.cobb@gmail.com>", are copyright of Jake Cobb.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Jake Cobb
2017/04/04
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Christopher Laws
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "claws", with
commit author "Chris Laws <clawsicus@gmail.com>", are copyright of Christopher Laws.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Christopher Laws
2019/08/11
# Permission to Relicense under MPLv2

This is a statement by Jean-Christophe Fillion-Robin
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "jcfr", with
commit author "Jean-Christophe Fillion-Robin <jchris.fillionr@kitware.com>", are copyright of Kitware Inc.

This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Jean-Christophe Fillion-Robin
2019/09/03
# Permission to Relicense under MPLv2 or any other share-alike OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by the Github user "std-any-emplace"
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
share-alike Open Source Initiative approved license chosen by the current
ZeroMQ BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "std-any-emplace", with
commit author "std-any-emplace", are copyright of the Github user "std-any-emplace".
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

"std-any-emplace"
2020/01/19
# Permission to Relicense under MPLv2

This is a statement by Thomas M. DuBuisson
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "mdionisio", with
commit author "Michele Dionisio", are copyright of Michele Dionisio.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Michele Dionisio
2019/07/09
# Permission to Relicense under MPLv2

This is a statement by Fedor Sheremetyev
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "sheremetyev", with
commit author "Fedor Sheremetyev <sheremetyev@gmail.com>", are copyright of Fedor Sheremetyev.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Fedor Sheremetyev
2017/03/20

# Permission to Relicense under MPLv2

This is a statement by Jesse Gorzinski
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "ThePrez", with
commit author "ThePrez <jgorzinski@gmail.com>", are copyright of Jesse Gorzinski.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Jesse Gorzinski
2019/10/02
# Permission to Relicense under MPLv2

This is a statement by sonoware GmbH that grants permission to relicense its
copyrights in the libzmq C++ library (ZeroMQ) under the Mozilla Public License
v2 (MPLv2).

A portion of the commits made by the Github handle "sonoware", with commit author
"Stephan Senkbeil" are copyright of sonoware GmbH.
This document hereby grants the libzmq project team to relicense libzmq, including
all past, present and future contributions of the authors listed above.

Stephan Senkbeil <stephan.senkbeil@sonoware.de>
2019/12/13
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by John Skallwe
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any
other Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle skaller", with
commit author skaller", are copyright of John Skaller .
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

John Skaller
2019/09/01
## Naos Ltd (a New Zealand company)

This is a statement by Naos Ltd (Naos) that grants permission to
relicense its copyrights in the libzmq C++ library (ZeroMQ) under
the Mozilla Public License v2 (MPLv2).

The port of libzmq to run on the z/OS Mainframe ([GitHub Pull

request #1136](https://github.com/zeromq/libzmq/pull/1136), [GitHub Pull
request #1138](https://github.com/zeromq/libzmq/pull/1138), and
[GitHub Pull request #1139](https://github.com/zeromq/libzmq/pull/1139))
was performed as work for hire under contract to iMatix Corporation
sprl, itself under contract to a client.  Thus copyright in that
portability work does not belong to Naos Ltd, and Naos Ltd hereby
releases any claim to the copyright in the z/OS Mainframe portability
work identified by the above three GitHub pull requests.

Ewen McNeill
Managing Director, Naos Ltd
2016-04-25
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Adrian Muraru
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "amuraru", with
commit author "Adrian Muraru <adi.muraru@gmail.com>", are copyright of Adrian Muraru.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Adrian Muraru
2017/03/20
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Christopher Hall that grants permission to
relicense its copyrights in the libzmq C++ library (ZeroMQ) under the
Mozilla Public License v2 (MPLv2) or any other Open Source Initiative
approved license chosen by the current ZeroMQ BDFL (Benevolent
Dictator for Life).

A portion of the commits made by the Github handle "hxw", with commit
author "Christopher Hall <hsw@ms2.hinet.net>", are copyright of
Christopher Hall.  This document hereby grants the libzmq project team
to relicense libzmq, including all past, present and future
contributions of the author listed above.

Christopher Hall
2019/08/07
# Permission to Relicense under MPLv2

This is a statement by Patrik Wenger
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2).

A portion of the commits made by the Github handle "paddor", with
commit author "Patrik Wenger", are copyright of Patrik Wenger .
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Patrik Wenger
2019/08/31
# Permission to Relicense under MPLv2 or any other share-alike OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Chia-liang Kao
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
share-alike Open Source Initiative approved license chosen by the current
ZeroMQ BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "clkao", with
commit author "Chia-liang Kao clkao@clkao.org", are copyright of Chia-liang Kao.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Chia-liang Kao
2017/03/20
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Xujing Yang (laplaceyang)
that grants permission to relicense his copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "laplaceyang", with
commit author "laplaceyang <laplace2013@outlook.com>", are copyright of Xujing Yang.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed
above.

Xujing Yang
2020/04/22
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Szekely Gyorgy
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "hoditohod", with
commit author "Szekely Gyorgy <hoditohod@gmail.com>", are copyright of Szekely Gyorgy.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Szekely Gyorgy
2018/08/15
# Permission to Relicense under MPLv2

This is a statement by Fabien Ninoles that grants permission to relicense
its copyrights in the libzmq C++ library (ZeroMQ) under the Mozilla
Public License v2 (MPLv2).

A portion of the commits made by the Github handle "ninoles",
with commit author "Fabien Ninoles", are copyright of Fabien Ninoles.

This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author
listed above.

Fabien Ninoles

2020/02/11
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Michael Hand
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "mipaaa", with
commit author "Michael Hand <mipaaa@gmail.com>", are copyright of Michael Hand.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Michael Hand
2017/03/21
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Chengye Ke
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "imkcy9", with
commit author "Chengye Ke <imkcy9@icloud.com>" or

"Chengye Ke <imkcy9@gmail.com>", are copyright of Chengye Ke.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Chengye Ke
2019/05/18
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Francesco Montorsi that grants permission to relicense
its copyrights in the libzmq C++ library (ZeroMQ) under the Mozilla Public
License v2 (MPLv2) or any other Open Source Initiative approved license
chosen by the current ZeroMQ BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "f18m", with
commit author "Francesco Montorsi <francesco.montorsi@gmail.com>", are copyright
of Francesco Montorsi.  This document hereby grants the libzmq project
team to relicense libzmq, including all past, present and future
contributions of the author listed above.

Francesco Montorsi
2018/09/14
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Eric Camachat
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "camachat", with
commit author "Eric Camachat <eric@camachat.org>", are copyright of Eric Camachat.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Eric L. Camachat
March 20, 2017
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Andrey Sibiryov that grants permission to relicense its copyrights in the
libzmq C++ library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other Open Source
Initiative approved license chosen by the current ZeroMQ BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "kobolog", with commit author "Andrey Sibiryov
<me@kobology.ru>",
are copyright of Andrey Sibiryov. This document hereby grants the libzmq project team to
relicense libzmq, including all past, present and future contributions of the author listed above.

Andrey Sibiryov

2017/04/04
# Permission to Relicense under MPLv2 or any other OSI approved license chosen by the current ZeroMQ BDFL

This is a statement by Lionel Flandrin
that grants permission to relicense its copyrights in the libzmq C++
library (ZeroMQ) under the Mozilla Public License v2 (MPLv2) or any other
Open Source Initiative approved license chosen by the current ZeroMQ
BDFL (Benevolent Dictator for Life).

A portion of the commits made by the Github handle "simias", with
commit author "Lionel Flandrin lflandrin@ereca.fr", are copyright of Lionel Flandrin.
This document hereby grants the libzmq project team to relicense libzmq,
including all past, present and future contributions of the author listed above.

Lionel Flandrin
2018/05/02

# 1.23 namespace 1.4.01

## 1.23.1 Available under license :

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

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

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

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

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

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

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

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

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

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

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

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

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

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

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

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must

include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and

do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

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

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

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

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

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

other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

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

END OF TERMS AND CONDITIONS

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

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

Copyright [yyyy] [name of copyright owner]

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

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

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

```
========================================================================
==  NOTICE file corresponding to section 4(d) of the Apache License,   ==
==  Version 2.0, in this case for the Apache xml-commons xml-apis      ==
==  distribution.                                                      ==
========================================================================
```

Apache XML Commons XML APIs
Copyright 1999-2009 The Apache Software Foundation.

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Portions of this software were originally based on the following:
- software copyright (c) 1999, IBM Corporation., http://www.ibm.com.
- software copyright (c) 1999, Sun Microsystems., http://www.sun.com.
- software copyright (c) 2000 World Wide Web Consortium, http://www.w3.org
xml-commons/java/external/LICENSE.dom-documentation.txt $Id: LICENSE.dom-documentation.txt 226215 2005-06-03 22:49:13Z mrglavas $

This license came from: http://www.w3.org/Consortium/Legal/copyright-documents-20021231

W3C DOCUMENT LICENSE
http://www.w3.org/Consortium/Legal/2002/copyright-documents-20021231

Public documents on the W3C site are provided by the copyright holders under the following license. By using and/or copying this document, or the W3C document from which this statement is linked, you (the licensee) agree that you have read, understood, and will comply with the following terms and conditions:

Permission to copy, and distribute the contents of this document, or the W3C document from which this statement is linked, in any medium for any purpose and without fee or royalty is hereby granted, provided that you include the following on ALL copies of the document, or portions thereof, that you use:

1. A link or URL to the original W3C document.
2. The pre-existing copyright notice of the original author, or if it doesn't exist, a notice (hypertext is preferred, but a textual representation is permitted) of the form: "Copyright [$date-of-document] World Wide Web Consortium, (Massachusetts Institute of Technology, European Research Consortium for Informatics and Mathematics, Keio University). All Rights Reserved. http://www.w3.org/Consortium/Legal/2002/copyright-documents-20021231"
3. If it exists, the STATUS of the W3C document.

When space permits, inclusion of the full text of this NOTICE should be provided. We request that authorship attribution be provided in any software, documents, or other items or products that you create pursuant to the implementation of the contents of this document, or any portion thereof.

No right to create modifications or derivatives of W3C documents is granted pursuant to this license. However, if additional requirements (documented in

the Copyright
FAQ) are satisfied, the right to create modifications or
derivatives is sometimes granted by the W3C to individuals complying with
those requirements.

THIS DOCUMENT IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NON-INFRINGEMENT, OR TITLE; THAT THE CONTENTS OF THE DOCUMENT ARE SUITABLE FOR ANY PURPOSE; NOR THAT THE IMPLEMENTATION OF SUCH CONTENTS WILL NOT INFRINGE ANY THIRD PARTY PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE DOCUMENT OR THE PERFORMANCE OR IMPLEMENTATION OF THE CONTENTS THEREOF.

The name and trademarks of copyright holders may NOT be used in advertising
or publicity pertaining to this document or its contents without specific,
written prior permission. Title to copyright
in this document will at all
times remain with copyright holders.

---

This formulation of W3C's notice and license became active on December 31 2002.
This version removes the copyright ownership notice such that this license can
be used with materials other than those owned by the W3C, moves information on
style sheets, DTDs, and schemas to the Copyright FAQ, reflects that ERCIM is
now a host of the W3C, includes references to this specific dated version of
the license, and removes the ambiguous grant of "use". See the older
formulation for the policy prior to this date. Please see our Copyright FAQ for
common questions about using materials from our site, such as the translating
or annotating specifications. Other questions about this notice can be directed
to site-policy@w3.org.

Joseph Reagle <site-policy@w3.org>

Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005)
$
xml-commons/java/external/LICENSE.dom-software.txt $Id: LICENSE.dom-software.txt 734314 2009-01-14 03:33:27Z mrglavas $

This license came from: http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/java-binding.zip (COPYRIGHT.html)

W3C SOFTWARE NOTICE AND LICENSE
Copyright  2004 World Wide Web Consortium, (Massachusetts Institute of Technology,
European Research Consortium for Informatics and Mathematics, Keio University).

All Rights Reserved.

The DOM bindings are published under the W3C Software Copyright Notice and License. The software license requires "Notice of any changes or modifications to the W3C files, including the date changes were made." Consequently, modified versions of the DOM bindings must document that they do not conform to the W3C standard; in the case of the IDL definitions, the pragma prefix can no longer be 'w3c.org'; in the case of the Java language binding, the package names can no longer be in the 'org.w3c' package.

Note: The original
version of the W3C Software Copyright Notice and License could
be found at http://www.w3.org/Consortium/Legal/2002/copyright-software-20021231

This work (and included software, documentation such as READMEs, or other related items) is being provided by the copyright holders under the following license. By obtaining, using and/or copying this work, you (the licensee) agree that you have read, understood, and will comply with the following terms and conditions.

Permission to copy, modify, and distribute this software and its documentation, with or without modification, for any purpose and without fee or royalty is hereby granted, provided that you include the following on ALL copies of the software and documentation or portions thereof, including modifications:

1. The full text of this NOTICE in a location viewable to users of the redistributed or derivative work.
2. Any pre-existing intellectual property disclaimers, notices, or terms

and conditions. If none exist, the W3C Software Short Notice should be included (hypertext is preferred, text is permitted) within the body of any redistributed or derivative code.
3. Notice of any changes or modifications to the files, including the date changes were made. (We recommend you provide URIs to the location from which the code is derived.)

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE OR DOCUMENTATION WILL NOT INFRINGE ANY THIRD PARTY PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE SOFTWARE OR DOCUMENTATION.

The name and trademarks of copyright holders may NOT be used in advertising
or
publicity pertaining to the software without specific, written prior permission.

Title to copyright in this software and any associated documentation will at
all times remain with copyright holders.
xml-commons/java/external/LICENSE.sax.txt $Id: LICENSE.sax.txt 225954 2002-01-31 23:26:48Z curcuru $

This license came from: http://www.megginson.com/SAX/copying.html
However please note future versions of SAX may be covered
under http://saxproject.org/?selected=pd

This page is now out of date -- see the new SAX site at
http://www.saxproject.org/ for more up-to-date
releases and other information. Please change your bookmarks.

SAX2 is Free!

I hereby abandon any property rights to SAX 2.0 (the Simple API for
XML), and release all of the SAX 2.0 source code, compiled code, and
documentation contained in this distribution into the Public Domain.
SAX comes with NO WARRANTY or guarantee of fitness for any
purpose.

David Megginson, david@megginson.com
2000-05-05

# 1.24 log4j-api 2.17.1

## 1.24.1 Available under license :

Apache Log4j 1.x Compatibility API
Copyright 1999-1969 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

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

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work,

excluding those notices that do not pertain to any part of
the Derivative Works; and

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

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

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

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

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

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions

of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

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

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

END OF TERMS AND CONDITIONS

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

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

Copyright [yyyy] [name of copyright owner]

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

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

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

# 1.25 apache-log4j 2.17.1

## 1.25.1 Available under license :

Apache Log4j Core
Copyright 1999-2012 Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

ResolverUtil.java
Copyright 2005-2006 Tim Fennell
/*
* Licensed to the Apache Software Foundation (ASF) under one or more
* contributor license agreements. See the NOTICE file distributed with
* this work for additional information regarding copyright ownership.
* The ASF licenses this file to You under the Apache license, Version 2.0
* (the "License"); you may not use this file except in compliance with
* the License. You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the license for the specific language governing permissions and
* limitations under the license.
*/

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

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work,

excluding those notices that do not pertain to any part of
the Derivative Works; and

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

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

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

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

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

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions

of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

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

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

END OF TERMS AND CONDITIONS

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

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

Copyright 1999-2005 The Apache Software Foundation

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

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

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

# 1.26 log4j-jcl 2.17.1

## 1.26.1 Available under license :

Apache Log4j Commons Logging Bridge
Copyright 1999-1969 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

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

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

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

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

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

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

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

source, and configuration files.

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

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

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

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

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

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

3. Grant of Patent License. Subject to the terms and conditions of this

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

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

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

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

that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

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

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

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

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

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

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

END OF TERMS AND CONDITIONS

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

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

Copyright [yyyy] [name of copyright owner]

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

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

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

# 1.27 dom 1.0

## 1.27.1 Available under license :

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

/*
* Copyright (c) 2000 World Wide Web Consortium,
* (Massachusetts Institute of Technology, Institut National de
* Recherche en Informatique et en Automatique, Keio University). All

* Rights Reserved. This program is distributed under the W3C's Software
* Intellectual Property License. This program is distributed in the
* hope that it will be useful, but WITHOUT ANY WARRANTY; without even
* the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR
* PURPOSE. See W3C License http://www.w3.org/Consortium/Legal/ for more
* details.
*/

Found in path(s):
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/w3c/dom/html/HTMLDOMImplementation.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2001 World Wide Web Consortium,
* (Massachusetts Institute of Technology, Institut National de
* Recherche en Informatique et en Automatique, Keio University). All
* Rights Reserved. This program is distributed under the W3C's Software
* Intellectual Property License. This program is distributed in the
* hope that it will be useful, but WITHOUT ANY WARRANTY; without even
* the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR
* PURPOSE.
* See W3C License http://www.w3.org/Consortium/Legal/ for more details.
*/

Found in path(s):
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ElementEditAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASNotationDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASObject.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/CharacterDataEditAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DOMImplementationAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASModel.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DocumentAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASAttributeDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASElementDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASEntityDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

jar/org/apache/xerces/dom3/as/ASNamedObjectMap.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASDataType.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASContentModel.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DOMASWriter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DocumentEditAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASObjectList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DOMASBuilder.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DOMASException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/NodeEditAS.java
No license file was found, but licenses were detected in source scan.

/*
* Licensed to the Apache Software Foundation (ASF) under one or more
* contributor license agreements.  See the NOTICE file distributed with
* this work for additional information regarding copyright ownership.
* The ASF licenses this file to You under the Apache License, Version 2.0
* (the "License"); you may not use this file except in compliance with
* the License.  You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/**
    * Checks if this content model has had its min/maxOccurs values reduced for
    * purposes of speeding up UPA.  If
 so, this content model should not be used
    * for any purpose other than checking unique particle attribution
    *
    * @return a boolean that says whether this content has been compacted for UPA
    */

Found in path(s):
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/models/XSCMValidator.java

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

```
/*
* Licensed to the Apache Software Foundation (ASF) under one or more
* contributor license agreements.  See the NOTICE file distributed with
* this work for additional information regarding copyright ownership.
* The ASF licenses this file to You under the Apache License, Version 2.0
* (the "License"); you may not use this file except in compliance with
* the License.  You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/**
  * DOM Level 3 LS CR - Experimental.
    * Create a new <code>LSParser</code>. The newly constructed parser may
    *
 then be configured by means of its <code>DOMConfiguration</code>
    * object, and used to parse documents by means of its <code>parse</code>
    *  method.
    * @param mode  The <code>mode</code> argument is either
    *   <code>MODE_SYNCHRONOUS</code> or <code>MODE_ASYNCHRONOUS</code>, if
    *   <code>mode</code> is <code>MODE_SYNCHRONOUS</code> then the
    *   <code>LSParser</code> that is created will operate in synchronous
    *   mode, if it's <code>MODE_ASYNCHRONOUS</code> then the
    *   <code>LSParser</code> that is created will operate in asynchronous
    *   mode.
    * @param schemaType  An absolute URI representing the type of the schema
    *   language used during the load of a <code>Document</code> using the
    *   newly created <code>LSParser</code>. Note that no lexical checking
    *   is done on the absolute URI. In order to create a
    *   <code>LSParser</code> for any kind of schema types (i.e. the
    *   LSParser will be free to use any schema
 found), use the value
    *   <code>null</code>.
    * <p ><b>Note:</b>    For W3C XML Schema [<a href='http://www.w3.org/TR/2001/REC-xmlschema-1-
20010502/'>XML Schema Part 1</a>]
    *   , applications must use the value
    *   <code>"http://www.w3.org/2001/XMLSchema"</code>. For XML DTD [<a
href='http://www.w3.org/TR/2000/REC-xml-20001006'>XML 1.0</a>],
    *   applications must use the value
    *   <code>"http://www.w3.org/TR/REC-xml"</code>. Other Schema languages
    *   are outside the scope of the W3C and therefore should recommend an
```

```
    *   absolute URI in order to use this method.
    * @return  The newly created <code>LSParser</code> object. This
    *   <code>LSParser</code> is either synchronous or asynchronous
    *   depending on the value of the <code>mode</code> argument.
    * <p ><b>Note:</b>    By default, the newly created <code>LSParser</code>
    *    does not contain a <code>DOMErrorHandler</code>, i.e. the value of
    *   the "<a href='http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-
handler'>
     *   error-handler</a>" configuration parameter is <code>null</code>. However, implementations
    *   may provide a default error handler at creation time. In that case,
    *   the initial value of the <code>"error-handler"</code> configuration
    *   parameter on the new created <code>LSParser</code> contains a
    *   reference to the default error handler.
    * @exception DOMException
    *    NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
    *   not supported.
   */
```

Found in path(s):
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java
No license file was found, but licenses were detected in source scan.

```
/*
* Licensed to the Apache Software Foundation (ASF) under one or more
* contributor license agreements.  See the NOTICE file distributed with
* this work for additional information regarding copyright ownership.
* The ASF licenses this file to You under the Apache License, Version 2.0
* (the "License"); you may not use this file except in compliance with
* the License.  You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDocumentInfo.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDElementTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLErrorHandler.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLFrameElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XMLEntityDescriptionImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/ShadowedSymbolTable.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/ObjectListImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLImgElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLOptgroupElement.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLInputSource.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLImgElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredCDATASectionImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAbstractIDConstraintTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLTimerElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSParticle.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLWmlElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/AnySimpleDV.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/StringList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLTimerElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/CaseInsensitiveMap.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaDOMImplementation.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultXMLDocumentHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLAnchorElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/HTMLSerializer.java
*

/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLHtmlElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/DefaultNamespaceContext.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/MultipleScopeNamespaceSupport.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaParsingConfig.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XML11NSDTDValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xpointer/XPointerMessageFormatter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLMetaElementImpl.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLQuoteElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/EncodingMap.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/XIncludeTextReader.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMInputImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/ObjectFactory.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xpointer/XPointerHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XMLCatalogResolver.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/TeeXMLDocumentFilterImpl.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTableSectionElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/models/CMStateSet.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/Base64BinaryDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/DraconianErrorHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/JAXPValidatorComponent.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTitleElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XML11NonValidatingConfiguration.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/ElementDefinitionImpl.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLElementDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSAttributeGroupDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/AbstractDOMParser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLSelectElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLLabelElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLFieldSetElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLCardElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/ShortListImpl.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/util/Base64.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/CDATASectionImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/XSGrammarPoolContainer.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/models/CMBuilder.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLMetaElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/XSSimpleType.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/XSSimpleTypeDelegate.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaDOMParser.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/RegularExpression.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/ElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/events/UIEventImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/Method.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/events/EntityReferenceImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

jar/org/apache/xerces/xs/datatypes/ByteList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLBodyElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLNSDTDValidator.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/models/XSCMBinOp.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredAttrImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/DOMUtil.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLIElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/SAXParserFactoryImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xpointer/ElementSchemePointer.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XMLMessageFormatter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultElement.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/SoftReferenceGrammarPool.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/AbstractXMLSchema.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/AttrNSImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/datatype/DurationImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLTdElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLEntityDescription.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLDTDScanner.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/SecurityManager.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSModel.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XMLErrorCode.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/DOMResultAugmentor.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/identity/FieldActivator.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/ParentNode.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/XIntPool.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTableCellElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/SchemaSymbols.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/ObjectFactory.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/io/UTF16Reader.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/TextImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMStringListImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/NonValidatingConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLImageElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/DecimalDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSModelImpl.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/ShortList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/ListDatatypeValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/StAXEventResultBuilder.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredAttrNSImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/DTDGrammar.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredEntityReferenceImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/datatypes/ObjectList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/identity/XPathMatcher.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLHeadElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/PSVIErrorList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/XML11NMTOKENDatatypeValidator.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/events/StartDocumentImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/XMLSerializer.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/identity/KeyRef.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSDDescription.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/XMLAttributes.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLHeadElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredEntityImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/StAXDocumentHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/io/Latin1Reader.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/LCount.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLDTDProcessor.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/BooleanDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLEntityResolver.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMMessageFormatter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/SchemaGrammar.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/grammars/XMLGrammarDescription.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/XSInputSource.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/ValidatedInfo.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/ChildNode.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/XSNamedMapImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/Constants.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/events/MouseEventImpl.java
*

/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLDTDValidatorFilter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLDocumentScannerImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/Util.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/XInclude11TextReader.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/DefaultValidationErrorHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLOptgroupElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/SchemaValidatorConfiguration.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLPostfieldElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/StAXSchemaParser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredNotationImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/CoreDocumentImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLNSDocumentScannerImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/ReadOnlyGrammarPool.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMErrorImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XMLAttributesImpl.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAttributeTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XMLDocumentParser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDComplexTypeTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/DatatypeMessageFormatter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLIElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLNoopElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/SecuritySupport.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/DatatypeException.java

*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/ENTITYDatatypeValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLInputElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLTableElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/events/ElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/SchemaContentHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/SoftReferenceSymbolTableConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/BalancedDTDGrammar.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xpointer/ShortHandPointer.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLParserConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/BasicParserConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLPreElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/SecurityConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/AbstractXMLDocumentParser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/validation/ValidationState.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/HTMLdtd.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLDOMImplementation.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/AugmentationsImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSImplementation.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLDocumentScanner.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/SAXLocatorWrapper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/SynchronizedSymbolTable.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSGrammarBucket.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

jar/org/apache/wml/WMLNoopElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xpointer/XPointerErrorHandler.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLDTDSource.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/events/ProcessingInstructionImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/NamespaceContext.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/XMLSchemaFactory.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLTdElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLDListElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/DayTimeDurationDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLUElementImpl.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/XSNamedMap4Types.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/datatypes/XSDateTime.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultText.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/models/CMLeaf.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSTerm.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLComponent.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLSmallElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/DocumentBuilderImpl.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/DatatypeValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTextAreaElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/AttributePSVI.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/Token.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredNode.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/XML11Serializer.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAttributeGroupTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/HexBinaryDV.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLGoElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/SimpleLocator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/MessageFormatter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLErrorReporter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSLoaderImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XML11NamespaceBinder.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/SecuritySupport.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLFormElementImpl.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XMLResourceIdentifierImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/XPath.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLMenuElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLCollectionImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/XMLDocumentFragmentHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSComplexTypeDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/SAXInputSource.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XPointerParserConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/datatype/SerializedDuration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/io/UTF8Reader.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

jar/org/apache/xerces/impl/dv/InvalidDatatypeValueException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/DOMInputSource.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSNotationDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLAreaElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLBigElement.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XMLChar.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLPostfieldElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeepNodeListImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/EntityReferenceImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/ProcessingInstructionImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLPrevElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMXSImplementationSourceImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/models/MixedContentModel.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/Augmentations.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/BaseDVFactory.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLVersionDetector.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/grammars/XMLDTDDescription.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/IDDatatypeValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/StAXValidatorHelper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSComplexTypeDefinition.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/NotationImpl.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLBElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/identity/UniqueOrKey.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/datatype/DatatypeFactoryImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLAnchorElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/DOMSerializerImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLIFrameElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/LineSeparator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XMLLocatorWrapper.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSWildcard.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/StreamValidatorHelper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/StAXLocationWrapper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLDoElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/IntegratedParserConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLNotationDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/ValidatorHelper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/BaseSchemaDVFactory.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/identity/IdentityConstraint.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/datatypes/XSDouble.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/SecuritySupport.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/CommentImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredProcessingInstructionImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/events/CommentImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLSetvarElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/ASDOMImplementationImpl.java
*

/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/events/NotationDeclarationImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/SoftReferenceSymbolTable.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/validation/EntityState.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/XHTMLSerializer.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLWmlElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/ASModelImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredDocumentTypeImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/DOMValidatorHelper.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSAnnotationInfo.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XML11DTDScannerImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/NodeImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XMLGrammarCachingConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLBaseElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xpointer/XPointerPart.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/QName.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLEmElementImpl.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/grammars/XMLGrammarPool.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLFormControl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredTextImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/FloatDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XML11DocumentScannerImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/ErrorHandlerWrapper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSAttributeGroupDefinition.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/models/CMAny.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/events/StartElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/DOMSerializer.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSModelGroupDefinition.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/events/EndElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/QNameDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLBrElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLScriptElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XMLStringBuffer.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/events/MutationEventImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/ObjectFactory.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDGroupTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/FullDVFactory.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/ObjectFactory.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/events/DTDImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/DOMParserImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLTrElement.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/models/CMUniOp.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DocumentFragmentImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLSelectElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDSimpleTypeTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XML11EntityScanner.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

jar/org/apache/xerces/impl/dv/xs/StringDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/IDREFDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLButtonElementImpl.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/identity/Field.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DocumentImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/TextImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLOneventElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/util/ByteListImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XIncludeParserConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLStrongElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/CachingParserPool.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/ParserConfigurationSettings.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLDocument.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/EmptyXMLSchema.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSObjectList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultNode.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLMapElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XML11NSDocumentScannerImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLSmallElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/XMLDTDContentModelHandler.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLEmElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/PSVIDocumentImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/DTDGrammarBucket.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/ElementPSVImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/REUtil.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLParseException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/Op.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLDTDContentModelSource.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XML11DTDConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLTemplateElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/SecuritySupport.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLInputElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/NMTOKENDatatypeValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLParagraphElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/OutputFormat.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/NOTATIONDatatypeValidator.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/DTDParser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/SymbolHash.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/ListDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLUListElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMImplementationSourceImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLBrElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/CharacterDataImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/RangeImpl.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/SerializerFactoryImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

jar/org/apache/xerces/impl/xs/XMLSchemaLoader.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLScanner.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XMLGrammarPoolImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/ElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLStrongElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSNotationDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/EncodingInfo.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLMetaElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/models/CMNodeFactory.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLFontElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLTableElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLAppletElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/IDDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/SecuritySupport.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSObject.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/SchemaDVFactory.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLEntityDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/ErrorHandlerProxy.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/DTDDVFactoryImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/models/CMNode.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/StringListImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLTemplateElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XML11Configurable.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

jar/org/apache/xerces/impl/dv/InvalidDatatypeFacetException.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAbstractParticleTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/StAXStreamResultBuilder.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/datatype/XMLGregorianCalendarImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/XInt.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSConstants.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/Serializer.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/SubstitutionGroupHandler.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/TypeValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/SAXParserImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XMLParser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSGroupDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/DoubleDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/Version.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/IntStack.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/io/ASCIIReader.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSIDCDefinition.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLCardElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLFieldsetElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/AttrImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLAElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultDocument.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/FilePathToURI.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/ObjectFactory.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLPrevElementImpl.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/util/HexBin.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/datatype/SerializedXMLGregorianCalendar.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLDTDContentModelFilter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSModelGroup.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLBaseFontElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLDTDLoader.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredElementDefinitionImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSElementDeclHelper.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLComponentManager.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/PrimeNumberSequenceGenerator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLOneventElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/SchemaDVFactoryImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/ImmutableLocation.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/XMLSchema.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSLoader.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/UnionDV.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/XNIException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLDocumentSource.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/grammars/XSGrammar.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLBElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

jar/org/apache/xerces/parsers/SAXParser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/datatypes/XSDecimal.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSWildcardDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMConfigurationImpl.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTableColElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLTrElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLDOMImplementationImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/models/XSCMUniOp.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/grammars/XMLGrammarLoader.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/validation/ConfigurableValidationState.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/IndentPrinter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/ElementState.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/ObjectFactory.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/PSVIDOMImplementationImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/models/DFAContentModel.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/AttributeMap.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/events/EndDocumentImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLPElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/datatypes/XSFloat.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/StringDatatypeValidator.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/models/XSCMRepeatingLeaf.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/PSVIAttrNSImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLDocumentFragmentScannerImpl.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/ValidationContext.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/grammars/Grammar.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLAccessElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/Match.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSMessageFormatter.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/TextSerializer.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/events/NamespaceImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSAttributeDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/JAXPConstants.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLAElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/EntityResolverWrapper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMOutputImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMImplementationImpl.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/SecuritySupport.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/ExternalSubsetResolver.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/NodeListCache.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/PSVIElementNSImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/XIncludeHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/SAXMessageFormatter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredCommentImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTableElementImpl.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLHRElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

jar/org/apache/xerces/xs/XSNamespaceItemList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/DOMEntityResolverWrapper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/RegexParser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/ElementNSImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/events/AttributeImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/IDREFDatatypeValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLUElement.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLHeadElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/models/XSCMLeaf.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/LocatorProxy.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/identity/Selector.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/XML11IDDatatypeValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSElementDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSAnnotationImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/LSInputList.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/XPathException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/events/EntityDeclarationImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/AbstractSAXParser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLBigElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/XMLLocator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSTypeDefinition.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/ItemPSVI.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/URI.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLObjectElementImpl.java

*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/AnyAtomicDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/NamedNodeMapImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLBuilder.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/WeakReferenceXMLSchema.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/datatypes/XSQName.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/NodeIteratorImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/DefaultErrorHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/BMPattern.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/DTDConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/SimpleXMLSchema.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLLegendElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/YearMonthDurationDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDWildcardTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLHeadingElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/XSFacets.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/ElementPSVI.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLRefreshElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/XSGrammarPool.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/XMLResourceIdentifier.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLDirectoryElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XML11Configuration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/EntityImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

jar/org/apache/xerces/impl/io/MalformedByteSequenceException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/UnparsedEntityHandler.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLAccessElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XMLSymbols.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xpointer/XPointerProcessor.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLSetvarElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/XMLDTDHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSMultiValueFacet.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSAnnotation.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLLinkElementImpl.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/events/EventImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/DTDDVFactory.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/identity/ValueStore.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/ValidatorHandlerImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/DOMErrorHandlerWrapper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/events/XMLEventImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/XS10TypeHelper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLDivElementImpl.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSNamespaceItem.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XML11Char.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLFrameSetElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLNamespaceBinder.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XMLGrammarPreparser.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSImplementationImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLBRElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/RangeExceptionImpl.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/PSVIProvider.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XMLSchemaException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSNamedMap.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLStyleElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSAttributeUseImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/validation/ValidationManager.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/EntityResolver2Wrapper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSElementDecl.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/DOMParser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLAttributeDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLLIElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSParticleDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/models/ContentModelValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/StAXInputSource.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLContentSpec.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DocumentTypeImpl.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLOptionElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/XIncludeMessageFormatter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

jar/org/apache/xerces/impl/xs/AttributePSVImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLSelectElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/XMLString.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/XMLSchemaValidatorComponentManager.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTableRowElementImpl.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLOListElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaDOM.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLDTDScannerImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLInputElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/PrecisionDecimalDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/DOMDocumentHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLPullParserConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/SecureProcessingConfiguration.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLDocumentFilter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/XSObjectListImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/NamedNodeMapImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSFacet.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLGoElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAbstractTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/Printer.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XML11DTDProcessor.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLDTDDescription.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLRefreshElementImpl.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/ParserForXMLSchema.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMNormalizer.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/IntegerDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/DocumentBuilderFactoryImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLIsIndexElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/models/SimpleContentModel.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredDocumentImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSSimpleTypeDefinition.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/EmptyLocation.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/SerializerFactory.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/HTTPInputSource.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/Encodings.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSAttributeUse.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/BaseMarkupSerializer.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/events/CharactersImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredDOMImplementationImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/XMLEventFactoryImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/JAXPNamespaceContextWrapper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/NamespaceSupport.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/XMLDocumentHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMLocatorImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/LSInputListImpl.java
*

/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSDeclarationPool.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/JAXPValidationMessageFormatter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/models/CMBinOp.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/ExtendedSchemaDVFactoryImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XML11DTDValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/EntityDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/SymbolTable.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/AnyURIDV.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLEntityScanner.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLEntityManager.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSAttributeDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/XIncludeNamespaceSupport.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/models/XSEmptyCM.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLOptGroupElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/DVFactoryException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLDocumentImpl.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/SchemaDateTimeException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLOptionElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLPElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLOptionElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLParamElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/TreeWalkerImpl.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/XML11DTDDVFactoryImpl.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/ParseException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLDTDFilter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLDTDValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDNotationTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/grammars/XMLSchemaDescription.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/DOMResultBuilder.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLAnchorElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLModElementImpl.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLDocumentImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredElementNSImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTableCaptionElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLEntityHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/StandardParserConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/models/XSAllCM.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/AttrImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLFieldsetElementImpl.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLDoElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/RangeToken.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/DOMASBuilderImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/NameNodeListImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLDOMImplementationImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

jar/org/apache/xerces/impl/io/UCSReader.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/parsers/XIncludeAwareParserConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/RevalidationHandler.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSValue.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/NodeImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/dtd/XML11IDREFDatatypeValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xni/parser/XMLConfigurationException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/util/AttributesProxy.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/jaxp/validation/ValidatorImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/parsers/XMLGrammarParser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dtd/XMLSimpleType.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/SchemaNamespaceSupport.java
No license file was found, but licenses were detected in source scan.

/*
* Licensed to the Apache Software Foundation (ASF) under one or more
* contributor license agreements.  See the NOTICE file distributed with
* this work for additional information regarding copyright ownership.
* The ASF licenses this file to You under the Apache License, Version 2.0
* (the "License"); you may not use this file except in compliance with
* the License.  You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/DOMImplementationListImpl.java
No license file was found, but licenses were detected in source scan.

```
/*
* Licensed to the Apache Software Foundation (ASF) under one or more
* contributor license agreements.  See the NOTICE file distributed with
* this work for additional information regarding copyright ownership.
* The ASF licenses this file to You under the Apache License, Version 2.0
* (the "License"); you may not use this file except in compliance with
* the License.  You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/**
    * used to check the 3 constraints against each complex type
    * (should be each model group):
    * Unique Particle
 Attribution, Particle Derivation (Restriction),
    * Element Declrations Consistent.
    */
```

Found in path(s):
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSConstraints.java
No license file was found, but licenses were detected in source scan.

```
Licensed to the Apache Software Foundation (ASF) under one or more
 contributor license agreements.  See the NOTICE file distributed with
 this work for additional information regarding copyright ownership.
 The ASF licenses this file to You under the Apache License, Version 2.0
 (the "License"); you may not use this file except in compliance with
 the License.  You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE
2.0

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

Found in path(s):
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/datatypes/package.html

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

```
/*
* Licensed to the Apache Software Foundation (ASF) under one or more
* contributor license agreements.  See the NOTICE file distributed with
* this work for additional information regarding copyright ownership.
* The ASF licenses this file to You under the Apache License, Version 2.0
* (the "License"); you may not use this file except in compliance with
* the License.  You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
// Unique Particle Attribution
```

Found in path(s):
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/models/XSDFACM.java
No license file was found, but licenses were detected in source scan.

```
/*
* Licensed to the Apache Software Foundation (ASF) under one or more
* contributor license agreements.  See the NOTICE file distributed with
* this work for additional information regarding copyright ownership.
* The ASF licenses this file to You under the Apache License, Version 2.0
* (the "License"); you may not use this file except in compliance with
* the License.  You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/AbstractDateTimeDV.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/YearDV.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDKeyrefTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/DateDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/DateTimeDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDUniqueOrKeyTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/MonthDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/DurationDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/MonthDayDV.java
*
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/TimeDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSAttributeChecker.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/YearMonthDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSModelGroupImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/XSSimpleTypeDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/DayDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XMLSchemaValidator.java
No license file was found, but licenses were detected in source scan.

# The ASF licenses this file to You under the Apache License, Version 2.0
# (the "License"); you may not use this file except in compliance with
# the License.  You may obtain a copy of the License at
#      http://www.apache.org/licenses/LICENSE-2.0
# distributed under the License is distributed on an "AS IS" BASIS,

Found in path(s):
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XMLSchemaMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/message.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/DOMMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XPointerMessages.properties

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/DatatypeMessages.properties
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/message_fr.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/SAXMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XIncludeMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XMLMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XMLSerializerMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/message_ja.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/JAXPValidationMessages.properties

# 1.28 dagger 2.4

## 1.28.1 Available under license :

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

/*
* Copyright (C) 2012 Google, Inc.
* Copyright (C) 2012 Square, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/Lazy.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2014 Google, Inc.
*

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

Found in path(s):
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/DelegateFactory.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/MapKey.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/MapFactory.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/Component.java
*
 /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/InstanceFactory.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/SingleCheck.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/Factory.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/MapProviderFactory.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/Collections.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/SetFactory.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2007 Google Inc.
* Copyright (C) 2012 Square, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/Provides.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2014 Google Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/MembersInjectors.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2015 Google, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/Multibindings.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/package-info.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/multibindings/IntKey.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/multibindings/StringKey.java
*
 /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/multibindings/LongKey.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/Beta.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/multibindings/ClassKey.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/Subcomponent.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2016 Google, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/Reusable.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/ProviderOfLazy.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/Binds.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/Preconditions.java
*
 /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/DoubleCheck.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-
jar/dagger/multibindings/ElementsIntoSet.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/multibindings/IntoMap.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/multibindings/package-info.java
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/multibindings/IntoSet.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2012 Square, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/Module.java

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

/*
* Copyright (C) 2012 Square, Inc.
* Copyright (C) 2009 Google Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1257772315_1643010337.24/0/dagger-2-4-sources-jar/dagger/MembersInjector.java

# 1.29 protobuf-java-format 1.2

## 1.29.1 Available under license :

Copyright (c) 2009, Orbitz LLC
All rights reserved.

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

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

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,

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

Copyright (c) 2009, Orbitz World Wide
All rights reserved.

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

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

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

# 1.30 annotations 4.1.1.4

## 1.30.1 Available under license :

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

/*
* Copyright (C) 2012 The Android Open Source Project
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*

*  http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1258811491_1643111603.33/0/annotations-4-1-1-4-sources-jar/android/annotation/SuppressLint.java
* /opt/cola/permits/1258811491_1643111603.33/0/annotations-4-1-1-4-sources-jar/android/annotation/TargetApi.java

# 1.31 error_prone_annotations 2.3.3

## 1.31.1 Available under license :

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

/*
* Copyright 2016 The Error Prone Authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*  http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/CompatibleWith.java
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/FormatMethod.java
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/MustBeClosed.java
*
 /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/RestrictedApi.java
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-

jar/com/google/errorprone/annotations/FormatString.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2017 The Error Prone Authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*     http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/DoNotCall.java
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/concurrent/GuardedBy.java
*
 /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/CheckReturnValue.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2014 The Error Prone Authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*     http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/NoAllocation.java
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/concurrent/LockMethod.java
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2015 The Error Prone Authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*     http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/CompileTimeConstant.java
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/SuppressPackageLocation.java
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/Immutable.java
*
 /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/RequiredModifiers.java
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/Var.java
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/ForOverride.java
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/concurrent/LazyInit.java
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-jar/com/google/errorprone/annotations/IncompatibleModifiers.java

# 1.32 free-type 2.12.1

## 1.32.1 Available under license :

The FreeType Project LICENSE

---

2006-Jan-27

Copyright 1996-2002, 2006 by
David Turner, Robert Wilhelm, and Werner Lemberg

Introduction
============

The FreeType Project is distributed in several archive packages;
some of them may contain, in addition to the FreeType font engine,
various tools and contributions which rely on, or relate to, the
FreeType Project.

This license applies to all files found in such packages, and
which do not fall under their own explicit license. The license
affects thus the FreeType font engine, the test programs,
documentation and makefiles, at the very least.

This license was inspired by the BSD, Artistic, and IJG
(Independent JPEG Group) licenses, which all encourage inclusion
and use of free software in commercial and freeware products
alike. As a consequence, its
main points are that:

- We don't promise that this software works. However, we will be
  interested in any kind of bug reports. (`as is' distribution)

- You can use this software for whatever you want, in parts or
  full form, without having to pay us. (`royalty-free' usage)

- You may not pretend that you wrote this software. If you use
  it, or only parts of it, in a program, you must acknowledge
  somewhere in your documentation that you have used the
  FreeType code. (`credits')

We specifically permit and encourage the inclusion of this
software, with or without modifications, in commercial products.
We disclaim all warranties covering The FreeType Project and
assume no liability related to The FreeType Project.

Finally, many people asked us for a preferred form for a credit/disclaimer to use in compliance with this license. We thus encourage you to use the following text:

"""
Portions
of this software are copyright <year> The FreeType
Project (www.freetype.org). All rights reserved.
"""

Please replace <year> with the value from the FreeType version you actually use.

Legal Terms
==========

0. Definitions
---

Throughout this license, the terms `package', `FreeType Project', and `FreeType archive' refer to the set of files originally distributed by the authors (David Turner, Robert Wilhelm, and Werner Lemberg) as the `FreeType Project', be they named as alpha, beta or final release.

`You' refers to the licensee, or person using the project, where `using' is a generic term including compiling the project's source code as well as linking it to form a `program' or `executable'. This program is referred to as `a program using the FreeType engine'.

This license applies to all files distributed in the original FreeType Project, including all source code, binaries and documentation,
unless otherwise stated in the file in its
original, unmodified form as distributed in the original archive.
If you are unsure whether or not a particular file is covered by this license, you must contact us to verify this.

The FreeType Project is copyright (C) 1996-2000 by David Turner, Robert Wilhelm, and Werner Lemberg. All rights reserved except as specified below.

1. No Warranty
---

THE FREETYPE PROJECT IS PROVIDED `AS IS' WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL ANY OF THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY DAMAGES CAUSED BY THE USE OR THE INABILITY TO USE, OF THE FREETYPE PROJECT.

2. Redistribution
---

This license grants a worldwide, royalty-free, perpetual and irrevocable right and license to use, execute, perform, compile, display,
copy, create derivative works of, distribute and sublicense the FreeType Project (in both source and object code forms) and derivative works thereof for any purpose; and to authorize others to exercise some or all of the rights granted herein, subject to the following conditions:

- Redistribution of source code must retain this license file (`FTL.TXT') unaltered; any additions, deletions or changes to the original files must be clearly indicated in accompanying documentation. The copyright notices of the unaltered, original files must be preserved in all copies of source files.

- Redistribution in binary form must provide a disclaimer that states that the software is based in part of the work of the FreeType Team, in the distribution documentation. We also encourage you to put an URL to the FreeType web page in your documentation, though this isn't mandatory.

These conditions apply to any software derived from or based on the FreeType Project, not just the unmodified files. If you use our work, you must acknowledge us. However, no fee need be paid to us.

3. Advertising
---

Neither the FreeType authors and contributors nor you shall use the name of the other for commercial, advertising, or promotional purposes without specific prior written permission.

We suggest, but do not require, that you use one or more of the following phrases to refer to this software in your documentation or advertising materials: `FreeType Project', `FreeType Engine',

`FreeType library', or `FreeType Distribution'.

As you have not signed this license, you are not required to accept it. However, as the FreeType Project is copyrighted material, only this license, or another one contracted with the authors, grants you the right to use, distribute, and modify it. Therefore, by using, distributing, or modifying the FreeType Project, you indicate that you understand and accept all the terms of this license.

4. Contacts
---

There are two mailing lists related to FreeType:

o freetype@nongnu.org

Discusses general use and applications of FreeType, as well as future and wanted additions to the library and distribution. If you are looking for support, start in this list if you haven't found anything to help you in the documentation.

o freetype-devel@nongnu.org

Discusses bugs, as well as engine internals, design issues, specific licenses, porting, etc.

Our home page can be found at

https://www.freetype.org

--- end of FTL.TXT ---

```
# Files that don't get a copyright, or which are taken from elsewhere.
#
# All lines in this file are patterns, including the comment lines; this
# means that e.g. `FTL.TXT' matches all files that have this string in
# the file name (including the path relative to the current directory,
# always starting with `./').
#
# Don't put empty lines into this file!
#
builds/unix/pkg.m4
#
docs/FTL.TXT
docs/GPLv2.TXT
#
```

include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#

subprojects/dlg
#
#
EOF
FREETYPE LICENSES
---

The FreeType 2 font engine is copyrighted work and cannot be used legally without a software license. In order to make this project usable to a vast majority of developers, we distribute it under two mutually exclusive open-source licenses.

This means that *you* must choose *one* of the two licenses described below, then obey all its terms and conditions when using FreeType 2 in any of your projects or products.

- The FreeType License, found in the file `docs/FTL.TXT`, which is similar to the original BSD license *with* an advertising clause that forces you to explicitly cite the FreeType project in your product's documentation. All details are in the license file. This license is suited to products which don't use the GNU General Public License.

  Note that this license is compatible to the GNU General Public License version 3, but not version 2.

- The GNU General Public License version 2, found in `docs/GPLv2.TXT` (any later version can be used also), for programs which already use the GPL. Note that the FTL is incompatible with GPLv2 due to its advertisement clause.

The contributed BDF and PCF drivers come with a license similar to that of the X Window System. It is compatible to the above two licenses (see files `src/bdf/README` and `src/pcf/README`). The same holds for the source code files `src/base/fthash.c` and `include/freetype/internal/fthash.h`; they wer part of the BDF driver in earlier FreeType versions.

The gzip module uses the zlib license (see `src/gzip/zlib.h`) which too is compatible to the above two licenses.

The MD5 checksum support (only used for debugging in development builds) is in the public domain.

--- end of LICENSE.TXT ---

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

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

Preamble

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

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

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

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

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

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

that any problems introduced by others will not reflect on the original authors' reputations.

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

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

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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

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

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

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

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1

above, provided that you also meet all of these conditions:

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered
independent and separate works in
themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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

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

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

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by

modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

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

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

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

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

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

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

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

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

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

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED

TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN
IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

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

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

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

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

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

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

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

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

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

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

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

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

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

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

# 1.33 protobuf-java 3.19.6

## 1.33.1 Available under license :

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

Manifest-Version: 1.0
Automatic-Module-Name: com.google.protobuf
Bnd-LastModified: 1664485905970
Build-Jdk: 1.8.0_181-google-v7
Built-By: mkruskal
Bundle-Description: Core Protocol Buffers library. Protocol Buffers are
a way of encoding structured data in an efficient yet extensible for
mat.
Bundle-DocURL: https://developers.google.com/protocol-buffers/
Bundle-License: https://opensource.org/licenses/BSD-3-Clause
Bundle-ManifestVersion: 2
Bundle-Name: Protocol Buffers [Core]
Bundle-SymbolicName: com.google.protobuf
Bundle-Version: 3.19.6
Created-By: Apache Maven Bundle Plugin
Export-Package: com.google.protobuf;version="3.19.6"
Import-Package: sun.misc;resolution:=optional,com.google.protobuf;versio
n="[3.19,4)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.0.0.201509101326

Found in path(s):
* /opt/cola/permits/1444789790_1666041710.804059/0/protobuf-java-3-19-6-jar/META-INF/MANIFEST.MF
No license file was found, but licenses were detected in source scan.

// Copyright 2008 Google Inc.  All rights reserved.
// Redistribution and use in source and binary forms, with or without
// modification, are permitted provided that the following conditions are
//     * Redistributions of source code must retain the above copyright
// notice, this list of conditions and the following disclaimer.
//     * Redistributions in binary form must reproduce the above
// copyright notice, this list of conditions and the following disclaimer
// in the documentation and/or other materials provided with the
//     * Neither the name of Google Inc. nor the names of its
// this software without specific prior written permission.

Found in path(s):
* /opt/cola/permits/1444789790_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/timestamp.proto
* /opt/cola/permits/1444789790_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/struct.proto
* /opt/cola/permits/1444789790_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/wrappers.proto
*
 /opt/cola/permits/1444789790_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/type.proto
* /opt/cola/permits/1444789790_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/empty.proto
* /opt/cola/permits/1444789790_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/any.proto
* /opt/cola/permits/1444789790_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/descriptor.proto
* /opt/cola/permits/1444789790_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/duration.proto
* /opt/cola/permits/1444789790_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/field_mask.proto
* /opt/cola/permits/1444789790_1666041710.804059/0/protobuf-java-3-19-6-
jar/google/protobuf/compiler/plugin.proto
* /opt/cola/permits/1444789790_1666041710.804059/0/protobuf-java-3-19-6-
jar/google/protobuf/source_context.proto
* /opt/cola/permits/1444789790_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/api.proto

# 1.34 jctools-core 4.0.1

## 1.34.1 Available under license :

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

Manifest-Version: 1.0
Bnd-LastModified: 1662622707903
Build-Jdk-Spec: 11
Bundle-Description: Java Concurrency Tools Core Library
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Java Concurrency Tools Core Library
Bundle-SymbolicName: org.jctools.core
Bundle-Version: 4.0.1

Created-By: Apache Maven Bundle Plugin 5.1.6
Export-Package: org.jctools.maps;version="4.0.1",org.jctools.util;uses
:="sun.misc";version="4.0.1",org.jctools.queues;version="4.0.1",org.j
ctools.queues.atomic;uses:="org.jctools.queues";version="4.0.1",org.j
ctools.queues.unpadded;uses:="org.jctools.queues";version="4.0.1",org
.jctools.counters;version="4.0.1"
Import-Package: sun.misc;resolution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-6.2.0.202202251641

Found in path(s):
* /opt/cola/permits/1500645298_1670406227.9308958/0/jctools-core-4-0-1-jar/META-INF/MANIFEST.MF
No license file was found, but licenses were detected in source scan.

<name>Apache License, Version 2.0</name>
<url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>

Found in path(s):
* /opt/cola/permits/1500645298_1670406227.9308958/0/jctools-core-4-0-1-jar/META-INF/maven/org.jctools/jctools-core/pom.xml

# 1.35 gson 2.10.1

## 1.35.1 Available under license :

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

Manifest-Version: 1.0
Created-By: 11.0.16.1 (Azul Systems, Inc.)
Build-Jdk-Spec: 11
Bnd-LastModified: 1673019830620
Bundle-ContactAddress: https://github.com/google/gson
Bundle-Description: Gson JSON library
Bundle-Developers: google;organization=Google;organizationUrl="https://w
ww.google.com"
Bundle-DocURL: https://github.com/google/gson/gson
Bundle-License: "Apache-2.0";link="https://www.apache.org/licenses/LICEN
SE-2.0.txt"
Bundle-ManifestVersion: 2
Bundle-Name: Gson
Bundle-RequiredExecutionEnvironment: JavaSE-1.7, JavaSE-1.8
Bundle-SCM: url="https://github.com/google/gson/gson/",connection="scm:g
it:https://github.com/google/gson.git/gson",developer-connection="scm:g
it:git@github.com:google/gson.git/gson",tag="gson-parent-2.10.1"
Bundle-SymbolicName: com.google.gson
Bundle-Vendor: Google Gson Project
Bundle-Version: 2.10.1
Export-Package: com.google.gson;uses:="com.google.gson.reflect,com.googl

e.gson.stream";version="2.10.1",com.google.gson.annotations;version="2.
10.1",com.google.gson.reflect;version="2.10.1",com.google.gson.stream;v
ersion="2.10.1"
Import-Package: sun.misc;resolution:=optional,com.google.gson.annotation
s
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-6.4.0.202211291949
Multi-Release: true

Found in path(s):
* /opt/cola/permits/1570533427_1676891842.8285189/0/gson-2-10-1-jar/META-INF/MANIFEST.MF

# 1.36 commons-fileupload 1.5

## 1.36.1 Available under license :

Apache Commons FileUpload
Copyright 2002-2023 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

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

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

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

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

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

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

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

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

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

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

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

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

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

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

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

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

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

notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

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

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

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

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

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

has been advised of the possibility of such damages.

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

END OF TERMS AND CONDITIONS

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

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

Copyright [yyyy] [name of copyright owner]

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

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

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

# 1.37 kotlin 1.6.0

## 1.37.1 Available under license :

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

{"version":3,"file":"kotlin.js","sources":["wrapper.js","js/arrayUtils.js","js/callableReferenceUtils.js","js/conversions.js","js/core.js","js/long.js","js/markerFunctions.js","js/misc.js","js/polyfills.js","js/rtti.js","runtime/arrayUtils.kt","ru

ntime/Enum.kt","primitiveCompanionObjects.kt","common/src/generated/_Arrays.kt","common/src/generated/_Ranges.kt","unsigned/src/kotlin/UByte.kt","unsigned/src/kotlin/UInt.kt","unsigned/src/kotlin/UShort.kt","builtin-sources/Ranges.kt","src/kotlin/collections/Collections.kt","src/kotlin/collections/Maps.kt","src/kotlin/collections/Sets.kt","src/kotlin/text/StringNumberConversions.kt","src/kotlin/time/Duration.kt","unsigned/src/kotlin/UnsignedUtils.kt","src/kotlin/collections/Iterables.kt","src/kotlin/collections/Sequences.kt","src/kotlin/util/Preconditions.kt","js/src/generated/_ArraysJs.kt","src/kotlin/comparisons/Comparisons.kt","src/kotlin/util/Standard.kt","js/src/generated/_ComparisonsJs.kt","unsigned/src/kotlin/ULong.kt","common/src/generated/_Collections.kt","js/src/kotlin/collections.kt","src/kotlin/collections/Iterators.kt","common/src/generated/_Comparisons.kt","common/src/generated/_Maps.kt","common/src/generated/_OneToManyTitlecaseMappings.kt","js/src/kotlin/text/char.kt","js/src/kotlin/text/string.kt","src/kotlin/text/Char.kt","src/kotlin/CharCode.kt","common/src/generated/_Sequences.kt","common/src/generated/_Sets.kt","common/src/generated/_Strings.kt","src/kotlin/text/Strings.kt","unsigned/src/kotlin/UByteArray.kt","unsigned/src/kotlin/UIntArray.kt","unsigned/src/kotlin/ULongArray.kt","unsigned/src/kotlin/UShortArray.kt","common/src/generated/_UArrays.kt","common/src/generated/_UCollections.kt","common/src/generated/_UComparisons.kt","common/src/generated/_URanges.kt","common/src/generated/_USequences.kt","common/src/kotlin/ExceptionsH.kt","common/src/kotlin/JsAnnotationsH.kt","common/src/kotlin/ioH.kt","builtin-sources/Collections.kt","builtin-sources/Iterators.kt","builtin-sources/ProgressionIterators.kt","builtin-sources/Progressions.kt","builtin-sources/Range.kt","builtin-sources/Unit.kt","builtin-sources/annotation/Annotations.kt","builtin-sources/internal/InternalAnnotations.kt","builtin-sources/internal/progressionUtil.kt","src/kotlin/builtins.kt","src/kotlin/jsTypeOf.kt","src/kotlin/kotlin.kt","src/kotlin/charCode_js-v1.kt","src/kotlin/coroutines/CoroutineImpl.kt","src/kotlin/util/Result.kt","src/kotlin/coroutines/Continuation.kt","src/kotlin/coroutines/intrinsics/IntrinsicsJs.kt","src/kotlin/currentBeMisc.kt","src/kotlin/exceptions.kt","src/kotlin/jsOperators.kt","src/kotlin/math_js-v1.kt","src/kotlin/numbers_js-v1.kt","src/kotlin/reflection_js-v1.kt","src/kotlin/text/numberConversions_js-v1.kt","js/src/generated/_CharCategories.kt","js/src/generated/_CollectionsJs.kt","js/src/generated/_DigitChars.kt","js/src/generated/_LetterChars.kt","js/src/generated/_OtherLowercaseChars.kt","js/src/generated/_OtherUppercaseChars.kt","js/src/generated/_StringsJs.kt","js/src/generated/_TitlecaseMappings.kt","js/src/generated/_UArraysJs.kt","js/src/generated/_WhitespaceChars.kt","js/src/kotlin/Comparator.kt","js/src/kotlin/annotations.kt","js/src/kotlin/annotationsJVM.kt","js/src/kotlin/collections/AbstractMutableCollection.kt","js/src/kotlin/collections/AbstractMutableList.kt","js/src/kotlin/collections/AbstractMutableMap.kt","js/src/kotlin/collections/AbstractMutableSet.kt","js/src/kotlin/collections/ArrayList.kt","js/src/kotlin/collections/ArraySorting.kt","js/src/kotlin/collections/ArraysJs.kt","js/src/kotlin/collections/EqualityComparator.kt","js/src/kotlin/collections/HashMap.kt","js/src/kotlin/collections/HashSet.kt","js/src/kotlin/collections/InternalHashCodeMap.kt","js/src/kotlin/collections/InternalMap.kt","js/src/kotlin/collections/InternalStringMap.kt","js/src/kotlin/collections/LinkedHashMap.kt","js/src/kotlin/collections/LinkedHashSet.kt","js/src/kotlin/concurrent.kt","js/src/kotlin/console.kt","js/src/kotlin/coroutines/SafeContinuationJs.kt","js/src/kotlin/coroutines/cancellation/CancellationException.kt","js/src/kotlin/coroutines/js/internal/EmptyContinuation.kt","js/src/kotlin/date.kt","js/src/kotlin/dom/Builders.kt","js/src/kotlin/dom/Classes.kt","js/src/kotlin/dom/Dom.kt","js/src/kotlin/dom/EventListener.kt","js/src/kotlin/dom/ItemArrayLike.kt","js/src/kotlin/dom/Mutations.kt","js/src/kotlin/dynamic.kt","js/src/kotlin/exceptionUtils.kt","js/src/kotlin/grouping.kt","src/kotlin/collections/Grouping.kt","js/src/kotlin/json.kt","js/src/kotlin/math.kt","js/src/kotlin/numbers.kt","js/src/kotlin/promise.kt","js/src/kotlin/random/PlatformRandom.kt","js/src/kotlin/reflect/AssociatedObjects.kt","js/src/kotlin/reflect/JsClass.kt","js/src/kotlin/reflect/KClassImpl.kt","js/src/kotlin/reflect/KClassesImpl.kt","js/src/kotlin/reflect/KTypeHelpers.kt","js/src/kotlin/reflect/KTypeImpl.kt","js/src/kotlin/reflect/KTypeParameterImpl.kt","js/src/kotlin/reflect/primitives.kt","js/src/kotlin/reflect/reflection.kt","js/src/kotlin/regexp.kt","js/src/kotlin/sequence.kt","js/src/kotlin/text/CharCategoryJS.kt","js/src/kotlin/text/CharacterCodingExceptionJs.kt","js/src/kotlin/text/StringBuilderJs.kt","js/src/kotlin/text/numberConversions.kt","js/src/kotlin/text/regex.kt","src/kotlin/text/StringBuilder.kt","js/src/kotlin/text/stringsCode.kt","js/src/kotlin/text/utf8Encoding.kt","js/src/kotlin/throwableExtensions.kt","js/src/kotlin/time/DurationJs.kt","js/src/kotlin/time/DurationUnit.kt","js/src/kotlin/time/MonoTimeSource.kt","js/src/kotlinx/dom/Builders.kt","js/src/kotlinx/dom/Classes.kt","src/kotlin/text

/regex/RegexExtensions.kt","js/src/kotlinx/dom/Dom.kt","js/src/kotlinx/dom/Mutations.kt","js/src/org.w3c/deprecated.kt","js/src/org.w3c/org.khronos.webgl.kt","js/src/org.w3c/org.w3c.dom.clipboard.kt","js/src/org.w3c/org.w3c.dom.css.kt","js/src/org.w3c/org.w3c.dom.encryptedmedia.kt","js/src/org.w3c/org.w3c.dom.events.kt","js/src/org.w3c/org.w3c.dom.kt","js/src/org.w3c/org.w3c.fetch.kt","js/src/org.w3c/org.w3c.dom.mediacapture.kt","js/src/org.w3c/org.w3c.dom.mediasource.kt","js/src/org.w3c/org.w3c.dom.pointerevents.kt","js/src/org.w3c/org.w3c.dom.svg.kt","js/src/org.w3c/org.w3c.files.kt","js/src/org.w3c/org.w3c.notifications.kt","js/src/org.w3c/org.w3c.workers.kt","js/src/org.w3c/org.w3c.xhr.kt","src/kotlin/annotations/Experimental.kt","src/kotlin/annotations/ExperimentalStdlibApi.kt","src/kotlin/annotations/Inference.kt","src/kotlin/annotations/Multiplatform.kt","src/kotlin/annotations/OptIn.kt","src/kotlin/collections/AbstractCollection.kt","src/kotlin/collections/AbstractIterator.kt","src/kotlin/collections/AbstractList.kt","src/kotlin/collections/AbstractMap.kt","src/kotlin/collections/AbstractSet.kt","src/kotlin/collections/ArrayDeque.kt","src/kotlin/collections/Arrays.kt","src/kotlin/collections/BrittleContainsOptimization.kt","src/kotlin/collections/IndexedValue.kt","src/kotlin/collections/MapAccessors.kt","src/kotlin/collections/MapWithDefault.kt","src/kotlin/collections/MutableCollections.kt","src/kotlin/collections/ReversedViews.kt","src/kotlin/collections/SequenceBuilder.kt","src/kotlin/collections/SlidingWindow.kt","src/kotlin/collections/UArraySorting.kt","src/kotlin/comparisons/compareTo.kt","src/kotlin/contracts/ContractBuilder.kt","src/kotlin/coroutines/ContinuationInterceptor.kt","src/kotlin/coroutines/CoroutineContext.kt","src/kotlin/coroutines/CoroutineContextImpl.kt","src/kotlin/coroutines/intrinsics/Intrinsics.kt","src/kotlin/experimental/bitwiseOperations.kt","src/kotlin/experimental/inferenceMarker.kt","src/kotlin/internal/Annotations.kt","src/kotlin/properties/Delegates.kt","src/kotlin/properties/Interfaces.kt","src/kotlin/properties/ObservableProperty.kt","src/kotlin/properties/PropertyReferenceDelegates.kt","src/kotlin/random/Random.kt","src/kotlin/random/URandom.kt","src/kotlin/random/XorWowRandom.kt","src/kotlin/ranges/Ranges.kt","src/kotlin/reflect/KClasses.kt","src/kotlin/reflect/KTypeProjection.kt","src/kotlin/reflect/KVariance.kt","src/kotlin/reflect/typeOf.kt","src/kotlin/text/Appendable.kt","src/kotlin/text/Indent.kt","src/kotlin/text/Typography.kt","src/kotlin/text/regex/MatchResult.kt","src/kotlin/time/DurationUnit.kt","src/kotlin/time/ExperimentalTime.kt","src/kotlin/time/TimeSource.kt","src/kotlin/time/TimeSources.kt","src/kotlin/time/measureTime.kt","src/kotlin/util/DeepRecursive.kt","src/kotlin/util/FloorDivMod.kt","src/kotlin/util/HashCode.kt","src/kotlin/util/KotlinVersion.kt","src/kotlin/util/Lateinit.kt","src/kotlin/util/Lazy.kt","src/kotlin/util/Numbers.kt","src/kotlin/util/Suspend.kt","src/kotlin/util/Tuples.kt","unsigned/src/kotlin/UIntRange.kt","unsigned/src/kotlin/UIterators.kt","unsigned/src/kotlin/ULongRange.kt","unsigned/src/kotlin/UMath.kt","unsigned/src/kotlin/UNumbers.kt","unsigned/src/kotlin/UProgressionUtil.kt","unsigned/src/kotlin/UStrings.kt","unsigned/src/kotlin/annotations/Unsigned.kt","common/src/kotlin/MathH.kt"],"sourcesContent":["(function
 (root, factory) {\n
    if (typeof define === 'function' && define.amd) {\n        define('kotlin', ['exports'], factory);\n    }\n    else if (typeof exports === 'object') {\n        factory(module.exports);\n    }\n    else {\n        root.kotlin = {};\n        factory(root.kotlin);\n    }\n}(this, function (Kotlin) {\n    var _ = Kotlin;\n\n    insertContent();\n}));\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\nKotlin.isBooleanArray = function (a) {\n    return (Array.isArray(a) || a instanceof Int8Array) && a.$type$ === \"BooleanArray\"\n};\n\nKotlin.isByteArray = function (a) {\n    return a instanceof Int8Array && a.$type$ !== \"BooleanArray\"\n};\n\nKotlin.isShortArray = function (a) {\n    return a instanceof Int16Array\n};\n\nKotlin.isCharArray = function (a) {\n    return a instanceof Uint16Array && a.$type$ === \"CharArray\"\n};\n\nKotlin.isIntArray
 = function (a) {\n    return a instanceof Int32Array\n};\n\nKotlin.isFloatArray = function (a) {\n    return a instanceof Float32Array\n};\n\nKotlin.isDoubleArray = function (a) {\n    return a instanceof Float64Array\n};\n\nKotlin.isLongArray = function (a) {\n    return Array.isArray(a) && a.$type$ === \"LongArray\"\n};\n\nKotlin.isArray = function (a) {\n    return Array.isArray(a) && !a.$type$;\n};\n\nKotlin.isArrayish = function (a) {\n    return Array.isArray(a) || ArrayBuffer.isView(a)\n};\n\nKotlin.arrayToString = function (a) {\n    if (a === null) return \"null\"\n    var toString = Kotlin.isCharArray(a) ? String.fromCharCode : Kotlin.toString;\n    return \"[\" +

Array.prototype.map.call(a, function(e) { return toString(e); }).join(\", \") + \"]\";\n};\n\nKotlin.arrayDeepToString = function (arr) {\n return Kotlin.kotlin.collections.contentDeepToStringImpl(arr);\n};\n\nKotlin.arrayEquals = function (a, b) {\n if (a === b) {\n return true;\n }\n if (a === null || b === null || !Kotlin.isArrayish(b) || a.length !== b.length) {\n return false;\n }\n\n for (var i = 0, n = a.length; i < n; i++) {\n if (!Kotlin.equals(a[i], b[i])) {\n return false;\n }\n }\n return true;\n};\n\nKotlin.arrayDeepEquals = function (a, b) {\n return Kotlin.kotlin.collections.contentDeepEqualsImpl(a, b);\n};\n\nKotlin.arrayHashCode = function (arr) {\n if (arr === null) return 0\n var result = 1;\n for (var i = 0, n = arr.length; i < n; i++) {\n result = ((31 * result | 0) + Kotlin.hashCode(arr[i])) | 0;\n }\n return result;\n};\n\nKotlin.arrayDeepHashCode = function (arr) {\n return Kotlin.kotlin.collections.contentDeepHashCodeImpl(arr);\n};\n\nKotlin.primitiveArraySort = function (array) {\n array.sort(Kotlin.doubleCompareTo)\n};\n\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\nKotlin.getCallableRef = function(name, f) {\n f.callableName = name;\n return f;\n};\n\nKotlin.getPropertyCallableRef = function(name, paramCount, getter, setter) {\n getter.get = getter;\n getter.set = setter;\n getter.callableName = name;\n return getPropertyRefClass(getter, setter, propertyRefClassMetadataCache[paramCount]);\n};\n\nfunction getPropertyRefClass(obj, setter, cache) {\n obj.$metadata$ = getPropertyRefMetadata(typeof setter === \"function\" ? cache.mutable : cache.immutable);\n obj.constructor = obj;\n return obj;\n}\n\nvar propertyRefClassMetadataCache = [\n {\n mutable: { value: null, implementedInterface: function () {\n return Kotlin.kotlin.reflect.KMutableProperty0 }\n },\n immutable: { value: null, implementedInterface: function () {\n return Kotlin.kotlin.reflect.KProperty0 }\n }\n },\n {\n mutable: { value: null, implementedInterface: function () {\n return Kotlin.kotlin.reflect.KMutableProperty1 }\n },\n immutable: { value: null, implementedInterface: function () {\n return Kotlin.kotlin.reflect.KProperty1 }\n }\n}];\n\nfunction getPropertyRefMetadata(cache) {\n if (cache.value === null) {\n cache.value = {\n interfaces: [cache.implementedInterface()],\n baseClass: null,\n functions: {},\n properties: {},\n types: {},\n staticMembers: {}\n };\n }\n return cache.value;\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\nKotlin.toShort = function (a) {\n return (a & 0xFFFF) << 16 >> 16;\n};\n\nKotlin.toByte = function (a) {\n return (a & 0xFF) << 24 >> 24;\n};\n\nKotlin.toChar = function (a) {\n return a & 0xFFFF;\n};\n\nKotlin.numberToLong = function (a) {\n return a instanceof Kotlin.Long ? a : Kotlin.Long.fromNumber(a);\n};\n\nKotlin.numberToInt = function (a) {\n return a instanceof Kotlin.Long ? a.toInt() : Kotlin.doubleToInt(a);\n};\n\nKotlin.numberToShort = function (a) {\n return Kotlin.toShort(Kotlin.numberToInt(a));\n};\n\nKotlin.numberToByte = function (a) {\n return Kotlin.toByte(Kotlin.numberToInt(a));\n};\n\nKotlin.numberToDouble = function (a) {\n return +a;\n};\n\nKotlin.numberToChar = function (a) {\n return Kotlin.toChar(Kotlin.numberToInt(a));\n};\n\nKotlin.doubleToInt = function(a) {\n if (a > 2147483647) return 2147483647;\n if (a < -2147483648) return -2147483648;\n return a | 0;\n};\n\nKotlin.toBoxedChar = function (a) {\n if (a == null) return a;\n if (a instanceof Kotlin.BoxedChar) return a;\n return new Kotlin.BoxedChar(a);\n};\n\nKotlin.unboxChar = function(a) {\n if (a == null) return a;\n return Kotlin.toChar(a);\n};\n\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\nKotlin.equals = function (obj1, obj2) {\n if (obj1 == null) {\n return obj2 == null;\n }\n\n if (obj2 == null) {\n return false;\n }\n\n if (obj1 !== obj1) {\n return obj2 !== obj2;\n }\n\n if (typeof obj1 === \"object\" && typeof obj1.equals === \"function\") {\n return obj1.equals(obj2);\n }\n\n if (typeof obj1 === \"number\" && typeof obj2 === \"number\") {\n return obj1 === obj2 && (obj1 !== 0 || 1 / obj1 === 1 / obj2)\n }\n\n return obj1 === obj2;\n};\n\nKotlin.hashCode = function (obj) {\n if (obj == null) {\n return 0;\n }\n var objType = typeof obj;\n if (\"object\" ===

objType) {\n return \"function\" === typeof obj.hashCode
? obj.hashCode() : getObjectHashCode(obj);\n }\n if (\"function\" === objType) {\n return getObjectHashCode(obj);\n }\n if (\"number\" === objType) {\n return Kotlin.numberHashCode(obj);\n }\n if (\"boolean\" === objType) {\n return Number(obj)\n }\n\n var str = String(obj);\n return getStringHashCode(str);\n};\n\n\nKotlin.toString = function (o) {\n if (o == null) {\n return \"null\";\n }\n else if (Kotlin.isArrayish(o)) {\n return \"[...]\";\n }\n else {\n return o.toString();\n }\n};\n\n/** @const */\nvar POW_2_32 = 4294967296;\n// TODO: consider switching to Symbol type once we are on ES6.\n/** @const */\nvar OBJECT_HASH_CODE_PROPERTY_NAME = \"kotlinHashCodeValue$\";\n\nfunction getObjectHashCode(obj) {\n if (!(OBJECT_HASH_CODE_PROPERTY_NAME in obj)) {\n var hash = (Math.random() * POW_2_32) | 0; // Make 32-bit singed integer.\n Object.defineProperty(obj, OBJECT_HASH_CODE_PROPERTY_NAME,
{ value: hash, enumerable: false });\n }\n return obj[OBJECT_HASH_CODE_PROPERTY_NAME];\n}\n\nfunction getStringHashCode(str) {\n var hash = 0;\n for (var i = 0; i < str.length; i++) {\n var code = str.charCodeAt(i);\n hash = (hash * 31 + code) | 0; // Keep it 32-bit.\n }\n return hash;\n}\n\nKotlin.identityHashCode = getObjectHashCode;\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Copyright 2009 The Closure Library Authors. All Rights Reserved.\n//\n// Licensed under the Apache License, Version 2.0 (the \"License\");\n// you may not use this file except in compliance with the License.\n// You may obtain a copy of the License at\n//\n// http://www.apache.org/licenses/LICENSE-2.0\n//\n// Unless required by applicable law or agreed to in writing, software\n//
distributed under the License is distributed on an \"AS-IS\" BASIS,\n// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\n\n/**\n * Constructs a 64-bit two's-complement integer, given its low and high 32-bit\n * values as *signed* integers. See the from* functions below for more\n * convenient ways of constructing Longs.\n *\n * The internal representation of a long is the two given signed, 32-bit values.\n * We use 32-bit pieces because these are the size of integers on which\n * Javascript performs bit-operations. For operations like addition and\n * multiplication, we split each number into 16-bit pieces, which can easily be\n * multiplied within Javascript's floating-point representation without overflow\n * or change in sign.\n *\n * In the algorithms below, we frequently reduce the negative case to the\n * positive case by negating the input(s) and then post-processing the result.\n * Note that we must ALWAYS check specially whether those values are MIN_VALUE\n
* (-2^63) because -MIN_VALUE == MIN_VALUE (since 2^63 cannot be represented as\n * a positive number, it overflows back into a negative). Not handling this\n * case would often result in infinite recursion.\n *\n * @param {number} low The low (signed) 32 bits of the long.\n * @param {number} high The high (signed) 32 bits of the long.\n * @constructor\n * @final\n */\nKotlin.Long = function(low, high) {\n /**\n * @type {number}\n * @private\n */\n this.low_ = low | 0; // force into 32 signed bits.\n\n /**\n * @type {number}\n * @private\n */\n this.high_ = high | 0; // force into 32 signed bits.\n};\n\nKotlin.Long.$metadata$ = {\n kind: \"class\",\n simpleName: \"Long\",\n interfaces:[]\n};\n\n\n// NOTE: Common constant values ZERO, ONE, NEG_ONE, etc. are defined below the\n// from* methods on which they depend.\n\n\n/**\n * A cache of the Long representations of small integer values.\n * @type {!Object}\n * @private\n */\nKotlin.Long.IntCache_ = {};\n\n\n/**\n
* Returns a Long representing the given (32-bit) integer value.\n * @param {number} value The 32-bit integer in question.\n * @return {!Kotlin.Long} The corresponding Long value.\n */\nKotlin.Long.fromInt = function(value) {\n if (-128 <= value && value < 128) {\n var cachedObj = Kotlin.Long.IntCache_[value];\n if (cachedObj) {\n return cachedObj;\n }\n }\n\n var obj = new Kotlin.Long(value | 0, value < 0 ? -1 : 0);\n if (-128 <= value && value < 128) {\n Kotlin.Long.IntCache_[value] = obj;\n }\n return obj;\n};\n\n\n/**\n * Converts this number value to `Long`.\n * The fractional part, if any, is rounded down towards zero.\n * Returns zero if this `Double` value is `NaN`, `Long.MIN_VALUE` if it's less than `Long.MIN_VALUE`,\n * `Long.MAX_VALUE` if it's bigger than `Long.MAX_VALUE`.\n * @param {number} value The number in question.\n * @return {!Kotlin.Long} The

```
corresponding Long value.\n */\nKotlin.Long.fromNumber = function(value) {\n  if (isNaN(value))
 {\n    return Kotlin.Long.ZERO;\n  } else if (value <= -Kotlin.Long.TWO_PWR_63_DBL_) {\n    return
Kotlin.Long.MIN_VALUE;\n  } else if (value + 1 >= Kotlin.Long.TWO_PWR_63_DBL_) {\n    return
Kotlin.Long.MAX_VALUE;\n  } else if (value < 0) {\n    return Kotlin.Long.fromNumber(-value).negate();\n  }
else {\n    return new Kotlin.Long(\n        (value % Kotlin.Long.TWO_PWR_32_DBL_) | 0,\n        (value /
Kotlin.Long.TWO_PWR_32_DBL_) | 0);\n  }\n};\n\n\n/**\n * Returns a Long representing the 64-bit integer that
comes by concatenating\n * the given high and low bits.  Each is assumed to use 32 bits.\n * @param {number}
lowBits The low 32-bits.\n * @param {number} highBits The high 32-bits.\n * @return {!Kotlin.Long} The
corresponding Long value.\n */\nKotlin.Long.fromBits = function(lowBits, highBits) {\n  return new
Kotlin.Long(lowBits, highBits);\n};\n\n\n/**\n * Returns a Long representation of the given string, written using the
given\n * radix.\n * @param {string} str The textual
 representation of the Long.\n * @param {number=} opt_radix The radix in which the text is written.\n * @return
{!Kotlin.Long} The corresponding Long value.\n */\nKotlin.Long.fromString = function(str, opt_radix) {\n  if
(str.length == 0) {\n    throw Error('number format error: empty string');\n  }\n\n  var radix = opt_radix || 10;\n  if
(radix < 2 || 36 < radix) {\n    throw Error('radix out of range: ' + radix);\n  }\n\n  if (str.charAt(0) == '-') {\n    return
Kotlin.Long.fromString(str.substring(1), radix).negate();\n  } else if (str.indexOf('-') >= 0) {\n    throw Error('number
format error: interior \"-\" character: ' + str);\n  }\n\n  // Do several (8) digits each time through the loop, so as to\n  //
minimize the calls to the very expensive emulated div.\n  var radixToPower =
Kotlin.Long.fromNumber(Math.pow(radix, 8));\n\n  var result = Kotlin.Long.ZERO;\n  for (var i = 0; i < str.length;
i += 8) {\n    var size = Math.min(8, str.length - i);\n    var value = parseInt(str.substring(i,
 i + size), radix);\n    if (size < 8) {\n      var power = Kotlin.Long.fromNumber(Math.pow(radix, size));\n      result =
result.multiply(power).add(Kotlin.Long.fromNumber(value));\n    } else {\n      result =
result.multiply(radixToPower);\n      result = result.add(Kotlin.Long.fromNumber(value));\n    }\n  }\n  return
result;\n};\n\n\n// NOTE: the compiler should inline these constant values below and then remove\n// these
variables, so there should be no runtime penalty for these.\n\n\n/**\n * Number used repeated below in calculations.
This must appear before the\n * first call to any from* function below.\n * @type {number}\n * @private\n
*/\nKotlin.Long.TWO_PWR_16_DBL_ = 1 << 16;\n\n\n/**\n * @type {number}\n * @private\n
*/\nKotlin.Long.TWO_PWR_24_DBL_ = 1 << 24;\n\n\n/**\n * @type {number}\n * @private\n
*/\nKotlin.Long.TWO_PWR_32_DBL_ =\n    Kotlin.Long.TWO_PWR_16_DBL_ *
Kotlin.Long.TWO_PWR_16_DBL_;\n\n\n/**\n * @type {number}\n * @private\n
*/\nKotlin.Long.TWO_PWR_31_DBL_
 =\n    Kotlin.Long.TWO_PWR_32_DBL_ / 2;\n\n\n/**\n * @type {number}\n * @private\n
*/\nKotlin.Long.TWO_PWR_48_DBL_ =\n    Kotlin.Long.TWO_PWR_32_DBL_ *
Kotlin.Long.TWO_PWR_16_DBL_;\n\n\n/**\n * @type {number}\n * @private\n
*/\nKotlin.Long.TWO_PWR_64_DBL_ =\n    Kotlin.Long.TWO_PWR_32_DBL_ *
Kotlin.Long.TWO_PWR_32_DBL_;\n\n\n/**\n * @type {number}\n * @private\n
*/\nKotlin.Long.TWO_PWR_63_DBL_ =\n    Kotlin.Long.TWO_PWR_64_DBL_ / 2;\n\n\n/** @type
{!Kotlin.Long} */\nKotlin.Long.ZERO = Kotlin.Long.fromInt(0);\n\n\n/** @type {!Kotlin.Long}
*/\nKotlin.Long.ONE = Kotlin.Long.fromInt(1);\n\n\n/** @type {!Kotlin.Long} */\nKotlin.Long.NEG_ONE =
Kotlin.Long.fromInt(-1);\n\n\n/** @type {!Kotlin.Long} */\nKotlin.Long.MAX_VALUE =\n
Kotlin.Long.fromBits(0xFFFFFFFF | 0, 0x7FFFFFFF | 0);\n\n\n/** @type {!Kotlin.Long}
*/\nKotlin.Long.MIN_VALUE = Kotlin.Long.fromBits(0, 0x80000000 | 0);\n\n\n/**\n * @type {!Kotlin.Long}\n *
@private\n */\nKotlin.Long.TWO_PWR_24_ = Kotlin.Long.fromInt(1
 << 24);\n\n\n/** @return {number} The value, assuming it is a 32-bit integer. */\nKotlin.Long.prototype.toInt =
function() {\n  return this.low_;\n};\n\n\n/** @return {number} The closest floating-point representation to this
value. */\nKotlin.Long.prototype.toNumber = function() {\n  return this.high_ *
Kotlin.Long.TWO_PWR_32_DBL_ +\n        this.getLowBitsUnsigned();\n};\n\n/** @return {number} The 32-bit
hashCode of this value. */\nKotlin.Long.prototype.hashCode = function() {\n  return this.high_ ^
```

```
this.low_;\n};\n\n/**\n * @param {number=} opt_radix The radix in which the text should be written.\n * @return {string} The textual representation of this value.\n * @override\n */\nKotlin.Long.prototype.toString = function(opt_radix) {\n  var radix = opt_radix || 10;\n  if (radix < 2 || 36 < radix) {\n    throw Error('radix out of range: ' + radix);\n  }\n\n  if (this.isZero()) {\n    return '0';\n  }\n\n  if (this.isNegative()) {\n    if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n
    // We need to change the Long value before it can be negated, so we remove\n      // the bottom-most digit in this base and then recurse to do the rest.\n      var radixLong = Kotlin.Long.fromNumber(radix);\n      var div = this.div(radixLong);\n      var rem = div.multiply(radixLong).subtract(this);\n      return div.toString(radix) + rem.toInt().toString(radix);\n    } else {\n      return '-' + this.negate().toString(radix);\n    }\n  }\n\n  // Do several (6) digits each time through the loop, so as to\n  // minimize the calls to the very expensive emulated div.\n  var radixToPower = Kotlin.Long.fromNumber(Math.pow(radix, 6));\n\n  var rem = this;\n  var result = '';\n  while (true) {\n    var remDiv = rem.div(radixToPower);\n    var intval = rem.subtract(remDiv.multiply(radixToPower)).toInt();\n    var digits = intval.toString(radix);\n\n    rem = remDiv;\n    if (rem.isZero()) {\n      return digits + result;\n    } else {\n      while (digits.length < 6) {\n        digits = '0' + digits;\n      }\n      result = '' + digits + result;\n    }\n  }\n};\n\n\n/** @return {number} The high 32-bits as a signed value. */\nKotlin.Long.prototype.getHighBits = function() {\n  return this.high_;\n};\n\n\n/** @return {number} The low 32-bits as a signed value. */\nKotlin.Long.prototype.getLowBits = function() {\n  return this.low_;\n};\n\n\n/** @return {number} The low 32-bits as an unsigned value. */\nKotlin.Long.prototype.getLowBitsUnsigned = function() {\n  return (this.low_ >= 0) ?\n      this.low_ : Kotlin.Long.TWO_PWR_32_DBL_ + this.low_;\n};\n\n\n/**\n * @return {number} Returns the number of bits needed to represent the absolute\n *     value of this Long.\n */\nKotlin.Long.prototype.getNumBitsAbs = function() {\n  if (this.isNegative()) {\n    if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n      return 64;\n    } else {\n      return this.negate().getNumBitsAbs();\n    }\n  } else {\n    var val = this.high_ != 0 ? this.high_ : this.low_;\n    for (var bit = 31;
 bit > 0; bit--) {\n      if ((val & (1 << bit)) != 0) {\n        break;\n      }\n    }\n    return this.high_ != 0 ? bit + 33 : bit + 1;\n  }\n};\n\n\n/** @return {boolean} Whether this value is zero. */\nKotlin.Long.prototype.isZero = function() {\n  return this.high_ == 0 && this.low_ == 0;\n};\n\n\n/** @return {boolean} Whether this value is negative. */\nKotlin.Long.prototype.isNegative = function() {\n  return this.high_ < 0;\n};\n\n\n/** @return {boolean} Whether this value is odd. */\nKotlin.Long.prototype.isOdd = function() {\n  return (this.low_ & 1) == 1;\n};\n\n\n/**\n * @param {Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this Long equals the other.\n */\nKotlin.Long.prototype.equalsLong = function(other) {\n  return (this.high_ == other.high_) && (this.low_ == other.low_);\n};\n\n\n/**\n * @param {Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this Long does not equal the other.\n */\nKotlin.Long.prototype.notEqualsLong
 = function(other) {\n  return (this.high_ != other.high_) || (this.low_ != other.low_);\n};\n\n\n/**\n * @param {Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this Long is less than the other.\n */\nKotlin.Long.prototype.lessThan = function(other) {\n  return this.compare(other) < 0;\n};\n\n\n/**\n * @param {Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this Long is less than or equal to the other.\n */\nKotlin.Long.prototype.lessThanOrEqual = function(other) {\n  return this.compare(other) <= 0;\n};\n\n\n/**\n * @param {Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this Long is greater than the other.\n */\nKotlin.Long.prototype.greaterThan = function(other) {\n  return this.compare(other) > 0;\n};\n\n\n/**\n * @param {Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this Long is greater than or equal to the other.\n */\nKotlin.Long.prototype.greaterThanOrEqual = function(other)
 {\n  return this.compare(other) >= 0;\n};\n\n\n/**\n * Compares this Long with the given one.\n * @param {Kotlin.Long} other Long to compare against.\n * @return {number} 0 if they are the same, 1 if the this is greater, and -1\n *     if the given one is greater.\n */\nKotlin.Long.prototype.compare = function(other) {\n  if (this.equalsLong(other)) {\n    return 0;\n  }\n\n  var thisNeg = this.isNegative();\n  var otherNeg =
```

```
other.isNegative();\n  if (thisNeg && !otherNeg) {\n    return -1;\n  }\n  if (!thisNeg && otherNeg) {\n    return 1;\n  }\n\n  // at this point, the signs are the same, so subtraction will not overflow\n  if (this.subtract(other).isNegative()) {\n    return -1;\n  } else {\n    return 1;\n  }\n};\n\n\n/** @return {!Kotlin.Long} The negation of this value. */\nKotlin.Long.prototype.negate = function() {\n  if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n    return Kotlin.Long.MIN_VALUE;\n  } else {\n    return this.not().add(Kotlin.Long.ONE);\n  }\n};\n\n\n/**\n * Returns the sum of this and the given Long.\n * @param {Kotlin.Long} other Long to add to this one.\n * @return {!Kotlin.Long} The sum of this and the given Long.\n */\nKotlin.Long.prototype.add = function(other) {\n  // Divide each number into 4 chunks of 16 bits, and then sum the chunks.\n\n  var a48 = this.high_ >>> 16;\n  var a32 = this.high_ & 0xFFFF;\n  var a16 = this.low_ >>> 16;\n  var a00 = this.low_ & 0xFFFF;\n\n  var b48 = other.high_ >>> 16;\n  var b32 = other.high_ & 0xFFFF;\n  var b16 = other.low_ >>> 16;\n  var b00 = other.low_ & 0xFFFF;\n\n  var c48 = 0, c32 = 0, c16 = 0, c00 = 0;\n  c00 += a00 + b00;\n  c16 += c00 >>> 16;\n  c00 &= 0xFFFF;\n  c16 += a16 + b16;\n  c32 += c16 >>> 16;\n  c16 &= 0xFFFF;\n  c32 += a32 + b32;\n  c48 += c32 >>> 16;\n  c32 &= 0xFFFF;\n  c48 += a48 + b48;\n  c48 &= 0xFFFF;\n  return Kotlin.Long.fromBits((c16 << 16) | c00, (c48 << 16) | c32);\n};\n\n\n/**\n * Returns the difference of this and the given Long.\n * @param {Kotlin.Long} other
 Long to subtract from this.\n * @return {!Kotlin.Long} The difference of this and the given Long.\n */\nKotlin.Long.prototype.subtract = function(other) {\n  return this.add(other.negate());\n};\n\n\n/**\n * Returns the product of this and the given long.\n * @param {Kotlin.Long} other Long to multiply with this.\n * @return {!Kotlin.Long} The product of this and the other.\n */\nKotlin.Long.prototype.multiply = function(other) {\n  if (this.isZero()) {\n    return Kotlin.Long.ZERO;\n  } else if (other.isZero()) {\n    return Kotlin.Long.ZERO;\n  }\n\n  if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n    return other.isOdd() ? Kotlin.Long.MIN_VALUE :
Kotlin.Long.ZERO;\n  } else if (other.equalsLong(Kotlin.Long.MIN_VALUE)) {\n    return this.isOdd() ?
Kotlin.Long.MIN_VALUE : Kotlin.Long.ZERO;\n  }\n\n  if (this.isNegative()) {\n    if (other.isNegative()) {\n
return this.negate().multiply(other.negate());\n    } else {\n      return this.negate().multiply(other).negate();\n    }\n
  } else if (other.isNegative()) {\n    return this.multiply(other.negate()).negate();\n  }\n\n  // If both longs are small,
use float multiplication\n  if (this.lessThan(Kotlin.Long.TWO_PWR_24_) &&\n
other.lessThan(Kotlin.Long.TWO_PWR_24_)) {\n    return Kotlin.Long.fromNumber(this.toNumber() *
other.toNumber());\n  }\n\n  // Divide each long into 4 chunks of 16 bits, and then add up 4x4 products.\n  // We can
skip products that would overflow.\n\n  var a48 = this.high_ >>> 16;\n  var a32 = this.high_ & 0xFFFF;\n  var a16 =
this.low_ >>> 16;\n  var a00 = this.low_ & 0xFFFF;\n\n  var b48 = other.high_ >>> 16;\n  var b32 = other.high_ &
0xFFFF;\n  var b16 = other.low_ >>> 16;\n  var b00 = other.low_ & 0xFFFF;\n\n  var c48 = 0, c32 = 0, c16 = 0, c00
= 0;\n  c00 += a00 * b00;\n  c16 += c00 >>> 16;\n  c00 &= 0xFFFF;\n  c16 += a16 * b00;\n  c32 += c16 >>> 16;\n
c16 &= 0xFFFF;\n  c16 += a00 * b16;\n  c32 += c16 >>> 16;\n  c16 &= 0xFFFF;\n  c32 += a32 * b00;\n  c48 +=
c32 >>> 16;\n  c32
 &= 0xFFFF;\n  c32 += a16 * b16;\n  c48 += c32 >>> 16;\n  c32 &= 0xFFFF;\n  c32 += a00 * b32;\n  c48 += c32
>>> 16;\n  c32 &= 0xFFFF;\n  c48 += a48 * b00 + a32 * b16 + a16 * b32 + a00 * b48;\n  c48 &= 0xFFFF;\n  return
Kotlin.Long.fromBits((c16 << 16) | c00, (c48 << 16) | c32);\n};\n\n\n/**\n * Returns this Long divided by the given
one.\n * @param {Kotlin.Long} other Long by which to divide.\n * @return {!Kotlin.Long} This Long divided by
the given one.\n */\nKotlin.Long.prototype.div = function(other) {\n  if (other.isZero()) {\n    throw Error('division
by zero');\n  } else if (this.isZero()) {\n    return Kotlin.Long.ZERO;\n  }\n\n  if
(this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n    if (other.equalsLong(Kotlin.Long.ONE) ||\n
other.equalsLong(Kotlin.Long.NEG_ONE)) {\n      return Kotlin.Long.MIN_VALUE;  // recall that -MIN_VALUE
== MIN_VALUE\n    } else if (other.equalsLong(Kotlin.Long.MIN_VALUE)) {\n      return Kotlin.Long.ONE;\n
} else {\n      // At this point, we have
 |other| >= 2, so |this/other| < |MIN_VALUE|.\n      var halfThis = this.shiftRight(1);\n      var approx =
halfThis.div(other).shiftLeft(1);\n      if (approx.equalsLong(Kotlin.Long.ZERO)) {\n        return other.isNegative() ?
Kotlin.Long.ONE : Kotlin.Long.NEG_ONE;\n      } else {\n        var rem = this.subtract(other.multiply(approx));\n
  var result = approx.add(rem.div(other));\n        return result;\n      }\n    }\n  } else if
```

(other.equalsLong(Kotlin.Long.MIN_VALUE)) {\n  return Kotlin.Long.ZERO;\n  }\n\n  if (this.isNegative()) {\n  if (other.isNegative()) {\n  return this.negate().div(other.negate());\n  } else {\n  return this.negate().div(other).negate();\n  }\n  } else if (other.isNegative()) {\n  return this.div(other.negate()).negate();\n  }\n\n  // Repeat the following until the remainder is less than other:  find a\n  // floating-point that approximates remainder / other *from below*, add this\n  // into the result, and subtract it from the remainder.

It is critical that\n  // the approximate value is less than or equal to the real value so that the\n  // remainder never becomes negative.\n  var res = Kotlin.Long.ZERO;\n  var rem = this;\n  while (rem.greaterThanOrEqual(other)) {\n  // Approximate the result of division. This may be a little greater or\n  // smaller than the actual value.\n  var approx = Math.max(1, Math.floor(rem.toNumber() / other.toNumber()));\n\n  // We will tweak the approximate result by changing it in the 48-th digit or\n  // the smallest non-fractional digit, whichever is larger.\n  var log2 = Math.ceil(Math.log(approx) / Math.LN2);\n  var delta = (log2 <= 48) ? 1 : Math.pow(2, log2 - 48);\n\n  // Decrease the approximation until it is smaller than the remainder.  Note\n  // that if it is too large, the product overflows and is negative.\n  var approxRes = Kotlin.Long.fromNumber(approx);\n  var approxRem = approxRes.multiply(other);\n  while (approxRem.isNegative() || approxRem.greaterThan(rem)) {\n  approx -= delta;\n  approxRes = Kotlin.Long.fromNumber(approx);\n  approxRem = approxRes.multiply(other);\n  }\n\n  // We know the answer can't be zero... and actually, zero would cause\n  // infinite recursion since we would make no progress.\n  if (approxRes.isZero()) {\n  approxRes = Kotlin.Long.ONE;\n  }\n\n  res = res.add(approxRes);\n  rem = rem.subtract(approxRem);\n  }\n  return res;\n};\n\n\n/**\n * Returns this Long modulo the given one.\n * @param {Kotlin.Long} other Long by which to mod.\n * @return {!Kotlin.Long} This Long modulo the given one.\n */\nKotlin.Long.prototype.modulo = function(other) {\n  return this.subtract(this.div(other).multiply(other));\n};\n\n\n/** @return {!Kotlin.Long} The bitwise-NOT of this value. */\nKotlin.Long.prototype.not = function() {\n  return Kotlin.Long.fromBits(~this.low_, ~this.high_);\n};\n\n\n/**\n * Returns the bitwise-AND of this Long and the given one.\n * @param {Kotlin.Long} other The Long with which to AND.\n * @return {!Kotlin.Long} The bitwise-AND of this and the other.\n */\nKotlin.Long.prototype.and = function(other) {\n  return Kotlin.Long.fromBits(this.low_ & other.low_,\n  this.high_ & other.high_);\n};\n\n\n/**\n * Returns the bitwise-OR of this Long and the given one.\n * @param {Kotlin.Long} other The Long with which to OR.\n * @return {!Kotlin.Long} The bitwise-OR of this and the other.\n */\nKotlin.Long.prototype.or = function(other) {\n  return Kotlin.Long.fromBits(this.low_ | other.low_,\n  this.high_ | other.high_);\n};\n\n\n/**\n * Returns the bitwise-XOR of this Long and the given one.\n * @param {Kotlin.Long} other The Long with which to XOR.\n * @return {!Kotlin.Long} The bitwise-XOR of this and the other.\n */\nKotlin.Long.prototype.xor = function(other) {\n  return Kotlin.Long.fromBits(this.low_ ^ other.low_,\n  this.high_ ^ other.high_);\n};\n\n\n/**\n * Returns this Long with bits shifted to the left by the given amount.\n * @param {number} numBits The number of bits by which to shift.\n * @return {!Kotlin.Long} This shifted to the left by the given amount.\n */\nKotlin.Long.prototype.shiftLeft = function(numBits) {\n  numBits &= 63;\n  if (numBits == 0) {\n  return this;\n  } else {\n  var low = this.low_;\n  if (numBits < 32) {\n  var high = this.high_;\n  return Kotlin.Long.fromBits(\n  low << numBits,\n  (high << numBits) | (low >>> (32 - numBits)));\n  } else {\n  return Kotlin.Long.fromBits(0, low << (numBits - 32));\n  }\n  }\n};\n\n\n/**\n * Returns this Long with bits shifted to the right by the given amount.\n * @param {number} numBits The number of bits by which to shift.\n * @return {!Kotlin.Long} This shifted to the right by the given amount.\n */\nKotlin.Long.prototype.shiftRight = function(numBits) {\n  numBits &= 63;\n  if (numBits == 0) {\n  return this;\n  } else {\n  var high = this.high_;\n  if (numBits < 32) {\n  var low = this.low_;\n  return Kotlin.Long.fromBits(\n  (low >>> numBits) | (high << (32 - numBits)),\n  high >> numBits);\n  } else {\n  return Kotlin.Long.fromBits(\n  high >> (numBits - 32),\n  high >= 0 ? 0 : -1);\n  }\n  }\n};\n\n\n/**\n * Returns this Long with bits shifted to the right by the given amount, with\n * zeros placed into the new leading bits.\n * @param {number} numBits The number of bits by which to shift.\n * @return {!Kotlin.Long} This shifted to the right by the given amount, with\n *  zeros placed into the new leading bits.\n

*/\nKotlin.Long.prototype.shiftRightUnsigned = function(numBits) {\n  numBits &= 63;\n  if (numBits == 0) {\n return this;\n  } else {\n    var high = this.high_;\n    if (numBits < 32) {\n      var low = this.low_;\n      return Kotlin.Long.fromBits(\n          (low >>> numBits) | (high << (32 - numBits)),\n          high >>> numBits);\n    } else if (numBits == 32) {\n      return Kotlin.Long.fromBits(high, 0);\n    } else {\n      return Kotlin.Long.fromBits(high >>> (numBits - 32), 0);\n    }\n  }\n};\n\n// Support for Kotlin\nKotlin.Long.prototype.equals = function (other) {\n    return other instanceof Kotlin.Long && this.equalsLong(other);\n};\n\nKotlin.Long.prototype.compareTo_11rb$ = Kotlin.Long.prototype.compare;\n\nKotlin.Long.prototype.inc = function() {\n    return this.add(Kotlin.Long.ONE);\n};\n\nKotlin.Long.prototype.dec = function() {\n    return this.add(Kotlin.Long.NEG_ONE);\n};\n\nKotlin.Long.prototype.valueOf = function() {\n    return this.toNumber();\n};\n\nKotlin.Long.prototype.unaryPlus = function() {\n    return this;\n};\n\nKotlin.Long.prototype.unaryMinus = Kotlin.Long.prototype.negate;\nKotlin.Long.prototype.inv = Kotlin.Long.prototype.not;\n\nKotlin.Long.prototype.rangeTo = function (other) {\n    return new Kotlin.kotlin.ranges.LongRange(this, other);\n};","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n/**\n * @param {string} id\n * @param {Object} declaration\n */\nKotlin.defineModule = function (id, declaration) {\n};\n\nKotlin.defineInlineFunction = function(tag, fun) {\n    return fun;\n};\n\nKotlin.wrapFunction = function(fun) {\n    var f = function() {\n        f = fun();\n        return f.apply(this, arguments);\n    };\n    return function() {\n        return f.apply(this, arguments);\n    };\n};\n\nKotlin.isTypeOf = function(type) {\n    return function (object) {\n        return typeof object === type;\n    }\n};\n\nKotlin.isInstanceOf = function (klass) {\n    return function (object) {\n        return Kotlin.isType(object, klass);\n    }\n};\n\nKotlin.orNull = function (fn) {\n    return function (object) {\n        return object == null || fn(object);\n    }\n};\n\nKotlin.andPredicate = function (a, b) {\n    return function (object) {\n        return a(object) && b(object);\n    }\n};\n\nKotlin.kotlinModuleMetadata = function (abiVersion, moduleName, data) {\n};\n\nKotlin.suspendCall = function(value) {\n    return value;\n};\n\nKotlin.coroutineResult = function(qualifier) {\n    throwMarkerError();\n};\n\nKotlin.coroutineController = function(qualifier) {\n    throwMarkerError();\n};\n\nKotlin.coroutineReceiver = function(qualifier) {\n    throwMarkerError();\n};\n\nKotlin.setCoroutineResult = function(value, qualifier) {\n    throwMarkerError();\n};\n\nKotlin.getReifiedTypeParameterKType = function(typeParameter) {\n    throwMarkerError();\n};\n\nfunction throwMarkerError() {\n    throw new Error(\n        \"This marker function should never been called. \" +\n        \"Looks like compiler did not eliminate it properly. \" +\n        \"Please, report an issue if you caught this exception.\");\n}\n\nKotlin.getFunctionById = function(id, defaultValue) {\n    return function() {\n        return defaultValue;\n    }\n};","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\nKotlin.compareTo = function (a, b) {\n    var typeA = typeof a;\n    if (typeA === \"number\") {\n        if (typeof b === \"number\") {\n            return Kotlin.doubleCompareTo(a, b);\n        }\n        return Kotlin.primitiveCompareTo(a, b);\n    }\n    if (typeA === \"string\" || typeA === \"boolean\") {\n        return Kotlin.primitiveCompareTo(a, b);\n    }\n    return a.compareTo_11rb$(b);\n};\n\nKotlin.primitiveCompareTo = function (a, b) {\n    return a < b ? -1 : a > b ? 1 : 0;\n};\n\nKotlin.doubleCompareTo = function (a, b) {\n    if (a < b) return -1;\n    if (a > b) return 1;\n\n    if (a === b) {\n        if (a !== 0) return 0;\n\n        var ia = 1 / a;\n        return ia === 1 / b ? 0 : (ia < 0 ? -1 : 1);\n    }\n\n    return a !== a ? (b !== b ? 0 : 1) : -1\n};\n\nKotlin.charInc = function (value) {\n    return Kotlin.toChar(value+1);\n};\n\nKotlin.charDec = function (value) {\n    return Kotlin.toChar(value-1);\n};\n\nKotlin.imul = Math.imul || imul;\n\nKotlin.imulEmulated = imul;\n\nfunction imul(a, b) {\n    return ((a & 0xffff0000) * (b & 0xffff) + (a & 0xffff) * (b | 0)) | 0;\n}\n\n\n(function() {\n    var buf = new ArrayBuffer(8);\n    var bufFloat64 = new Float64Array(buf);\n    var bufFloat32 = new Float32Array(buf);\n    var bufInt32 = new Int32Array(buf);\n    var lowIndex = 0;\n    var highIndex = 1;\n\n    bufFloat64[0] = -1; // bff00000_00000000\n    if

```
(bufInt32[lowIndex] !== 0) {\n        lowIndex = 1;\n        highIndex = 0;\n    }\n\n    Kotlin.doubleToBits =
function(value) {\n        return Kotlin.doubleToRawBits(isNaN(value) ? NaN : value);\n    };\n\n
Kotlin.doubleToRawBits = function(value) {\n        bufFloat64[0] = value;\n        return
Kotlin.Long.fromBits(bufInt32[lowIndex],
 bufInt32[highIndex]);\n    };\n\n    Kotlin.doubleFromBits = function(value) {\n        bufInt32[lowIndex] =
value.low_;\n        bufInt32[highIndex] = value.high_;\n        return bufFloat64[0];\n    };\n\n    Kotlin.floatToBits =
function(value) {\n        return Kotlin.floatToRawBits(isNaN(value) ? NaN : value);\n    };\n\n
Kotlin.floatToRawBits = function(value) {\n        bufFloat32[0] = value;\n        return bufInt32[0];\n    };\n\n
Kotlin.floatFromBits = function(value) {\n        bufInt32[0] = value;\n        return bufFloat32[0];\n    };\n\n    //
returns zero value for number with positive sign bit and non-zero value for number with negative sign bit.\n
Kotlin.doubleSignBit = function(value) {\n        bufFloat64[0] = value;\n        return bufInt32[highIndex] &
0x80000000;\n    };\n\n    Kotlin.numberHashCode = function(obj) {\n        if ((obj | 0) === obj) {\n            return
obj | 0;\n        }\n        else {\n            bufFloat64[0]
 = obj;\n            return (bufInt32[highIndex] * 31 | 0) + bufInt32[lowIndex] | 0;\n        }\n
}\n})();\n\nKotlin.ensureNotNull = function(x) {\n    return x != null ? x : Kotlin.throwNPE();\n};\n","/*\n *
Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\nif (typeof
String.prototype.startsWith === \"undefined\") {\n    Object.defineProperty(String.prototype, \"startsWith\", {\n
value: function (searchString, position) {\n            position = position || 0;\n            return
this.lastIndexOf(searchString, position) === position;\n        }\n    });\n}\nif (typeof String.prototype.endsWith ===
\"undefined\") {\n    Object.defineProperty(String.prototype, \"endsWith\", {\n        value: function (searchString,
position) {\n            var subjectString = this.toString();\n            if (position === undefined
 || position > subjectString.length) {\n                position = subjectString.length;\n            }\n            position -=
searchString.length;\n            var lastIndex = subjectString.indexOf(searchString, position);\n            return lastIndex
!== -1 && lastIndex === position;\n        }\n    });\n}\n// ES6 Math polyfills\nif (typeof Math.sign ===
\"undefined\") {\n    Math.sign = function(x) {\n        x = +x; // convert to a number\n        if (x === 0 || isNaN(x))
{\n            return Number(x);\n        }\n        return x > 0 ? 1 : -1;\n    };\n}\nif (typeof Math.trunc === \"undefined\")
{\n    Math.trunc = function(x) {\n        if (isNaN(x)) {\n            return NaN;\n        }\n        if (x > 0) {\n
return Math.floor(x);\n        }\n        return Math.ceil(x);\n    };\n}\n\n(function() {\n    var epsilon =
2.220446049250313E-16;\n    var taylor_2_bound = Math.sqrt(epsilon);\n    var taylor_n_bound =
Math.sqrt(taylor_2_bound);\n    var upper_taylor_2_bound
 = 1/taylor_2_bound;\n    var upper_taylor_n_bound = 1/taylor_n_bound;\n\n    if (typeof Math.sinh ===
\"undefined\") {\n        Math.sinh = function(x) {\n            if (Math.abs(x) < taylor_n_bound) {\n                var result
= x;\n                if (Math.abs(x) > taylor_2_bound) {\n                    result += (x * x * x) / 6;\n                }\n
return result;\n            } else {\n                var y = Math.exp(x);\n                var y1 = 1 / y;\n                if (!isFinite(y))
return Math.exp(x - Math.LN2);\n                if (!isFinite(y1)) return -Math.exp(-x - Math.LN2);\n                return (y
- y1) / 2;\n            }\n        };\n    }\n    if (typeof Math.cosh === \"undefined\") {\n        Math.cosh = function(x) {\n
            var y = Math.exp(x);\n            var y1 = 1 / y;\n            if (!isFinite(y) || !isFinite(y1)) return
Math.exp(Math.abs(x) - Math.LN2);\n            return (y + y1) / 2;\n        };\n    }\n\n    if (typeof Math.tanh
 === \"undefined\") {\n        Math.tanh = function(x){\n            if (Math.abs(x) < taylor_n_bound) {\n                var
result = x;\n                if (Math.abs(x) > taylor_2_bound) {\n                    result -= (x * x * x) / 3;\n                }\n
    return result;\n            }\n            else {\n                var a = Math.exp(+x), b = Math.exp(-x);\n                return a
=== Infinity ? 1 : b === Infinity ? -1 : (a - b) / (a + b);\n            }\n        };\n    }\n\n    // Inverse hyperbolic function
implementations derived from boost special math functions,\n    // Copyright Eric Ford & Hubert Holin 2001.\n\n
if (typeof Math.asinh === \"undefined\") {\n        var asinh = function(x) {\n            if (x >= +taylor_n_bound)\n
  {\n                if (x > upper_taylor_n_bound)\n                {\n                    if (x > upper_taylor_2_bound)\n
{\n                        // approximation by laurent series in 1/x
```

```
 at 0+ order from -1 to 0\n                return Math.log(x) + Math.LN2;\n            }\n            else\n
    {\n                // approximation by laurent series in 1/x at 0+ order from -1 to 1\n                return
Math.log(x * 2 + (1 / (x * 2)));\n            }\n        }\n        else\n        {\n            return
Math.log(x + Math.sqrt(x * x + 1));\n        }\n    }\n    else if (x <= -taylor_n_bound)\n    {\n
    return -asinh(-x);\n    }\n    else\n    {\n        // approximation by taylor series in x at 0 up to
order 2\n        var result = x;\n        if (Math.abs(x) >= taylor_2_bound)\n        {\n            var x3 =
x * x * x;\n            // approximation by taylor series in x at 0 up to order 4\n            result -= x3 / 6;\n
    }\n
        return result;\n    }\n};\n    Math.asinh = asinh;\n}\nif (typeof Math.acosh === \"undefined\")
{\n    Math.acosh = function(x) {\n        if (x < 1)\n        {\n            return NaN;\n        }\n        else if
(x - 1 >= taylor_n_bound)\n        {\n            if (x > upper_taylor_2_bound)\n            {\n                //
approximation by laurent series in 1/x at 0+ order from -1 to 0\n                return Math.log(x) + Math.LN2;\n
    }\n            else\n            {\n                return Math.log(x + Math.sqrt(x * x - 1));\n            }\n        }\n
    else\n        {\n            var y = Math.sqrt(x - 1);\n            // approximation by taylor series in y at 0 up to
order 2\n            var result = y;\n            if (y >= taylor_2_bound)\n            {\n                var y3 = y * y *
y;\n                // approximation
 by taylor series in y at 0 up to order 4\n                result -= y3 / 12;\n            }\n\n            return Math.sqrt(2)
* result;\n        }\n    };\n}\nif (typeof Math.atanh === \"undefined\") {\n    Math.atanh = function(x) {\n
    if (Math.abs(x) < taylor_n_bound) {\n            var result = x;\n            if (Math.abs(x) > taylor_2_bound)
{\n                result += (x * x * x) / 3;\n            }\n            return result;\n        }\n        return Math.log((1
+ x) / (1 - x)) / 2;\n    };\n}\nif (typeof Math.log1p === \"undefined\") {\n    Math.log1p = function(x) {\n
    if (Math.abs(x) < taylor_n_bound) {\n            var x2 = x * x;\n            var x3 = x2 * x;\n            var x4 =
x3 * x;\n            // approximation by taylor series in x at 0 up to order 4\n            return (-x4 / 4 + x3 / 3 - x2 / 2
+ x);\n        }\n        return Math.log(x
 + 1);\n    };\n}\nif (typeof Math.expm1 === \"undefined\") {\n    Math.expm1 = function(x) {\n        if
(Math.abs(x) < taylor_n_bound) {\n            var x2 = x * x;\n            var x3 = x2 * x;\n            var x4 = x3 *
x;\n            // approximation by taylor series in x at 0 up to order 4\n            return (x4 / 24 + x3 / 6 + x2 / 2 +
x);\n        }\n        return Math.exp(x) - 1;\n    };\n}\n})();\nif (typeof Math.hypot === \"undefined\") {\n
Math.hypot = function() {\n    var y = 0;\n    var length = arguments.length;\n\n    for (var i = 0; i < length;
i++) {\n        if (arguments[i] === Infinity || arguments[i] === -Infinity) {\n            return Infinity;\n        }\n
    y += arguments[i] * arguments[i];\n    }\n    return Math.sqrt(y);\n};\n}\nif (typeof Math.log10 ===
\"undefined\") {\n    Math.log10 = function(x) {\n        return Math.log(x) * Math.LOG10E;\n
};\n}\nif (typeof Math.log2 === \"undefined\") {\n    Math.log2 = function(x) {\n        return Math.log(x) *
Math.LOG2E;\n    };\n}\nif (typeof Math.clz32 === \"undefined\") {\n    Math.clz32 = (function(log, LN2) {\n
return function(x) {\n        var asUint = x >>> 0;\n        if (asUint === 0) {\n            return 32;\n        }\n
    return 31 - (log(asUint) / LN2 | 0) | 0; // the \"| 0\" acts like math.floor\n    };\n})(Math.log,
Math.LN2);\n}\n\n// For HtmlUnit and PhantomJs\nif (typeof ArrayBuffer.isView === \"undefined\") {\n
ArrayBuffer.isView = function(a) {\n    return a != null && a.__proto__ != null && a.__proto__.__proto__ ===
Int8Array.prototype.__proto__;\n};\n}\n\nif (typeof Array.prototype.fill === \"undefined\") {\n    // Polyfill from
https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array/fill#Polyfill\n
Object.defineProperty(Array.prototype, 'fill', {\n    value: function (value)
 {\n\n        // Steps 1-2.\n        if (this == null) {\n            throw new TypeError('this is null or not defined');\n
    }\n\n        var O = Object(this);\n\n        // Steps 3-5.\n        var len = O.length >>> 0;\n\n        // Steps
6-7.\n        var start = arguments[1];\n        var relativeStart = start >> 0;\n\n        // Step 8.\n        var k =
relativeStart < 0 ?\n            Math.max(len + relativeStart, 0) :\n            Math.min(relativeStart, len);\n\n
    // Steps 9-10.\n        var end = arguments[2];\n        var relativeEnd = end === undefined ?\n
 len : end >> 0;\n\n        // Step 11.\n        var finalValue = relativeEnd < 0 ?\n                Math.max(len +
relativeEnd, 0) :\n                Math.min(relativeEnd, len);\n\n        // Step 12.\n        while (k <
```

```
finalValue) {\n O[k] = value;\n k++;\n }\n\n // Step 13.\n return O;\n }\n });\n}\n\n(function() {\n function normalizeOffset(offset, length) {\n if (offset < 0) return Math.max(0, offset + length);\n return Math.min(offset, length);\n }\n function typedArraySlice(begin, end) {\n if (typeof end === \"undefined\") {\n end = this.length;\n }\n begin = normalizeOffset(begin || 0, this.length);\n end = Math.max(begin, normalizeOffset(end, this.length));\n return new this.constructor(this.subarray(begin, end));\n }\n\n var arrays = [Int8Array, Int16Array, Uint16Array, Int32Array, Float32Array, Float64Array];\n for (var i = 0; i < arrays.length; ++i) {\n var TypedArray = arrays[i];\n if (typeof TypedArray.prototype.fill === \"undefined\") {\n Object.defineProperty(TypedArray.prototype, 'fill', {\n value: Array.prototype.fill\n });\n }\n if (typeof TypedArray.prototype.slice === \"undefined\") {\n Object.defineProperty(TypedArray.prototype, 'slice', {\n value: typedArraySlice\n });\n }\n }\n\n // Patch apply to work with TypedArrays if needed.\n try {\n (function() {}).apply(null, new Int32Array(0))\n } catch (e) {\n var apply = Function.prototype.apply;\n Object.defineProperty(Function.prototype, 'apply', {\n value: function(self, array) {\n return apply.call(this, self, [].slice.call(array));\n }\n });\n }\n\n\n // Patch map to work with TypedArrays if needed.\n for (var i = 0; i < arrays.length; ++i) {\n var TypedArray = arrays[i];\n if (typeof TypedArray.prototype.map === \"undefined\") {\n Object.defineProperty(TypedArray.prototype, 'map', {\n value: function(callback, self) {\n return [].slice.call(this).map(callback, self);\n }\n });\n }\n }\n\n // Patch sort to work with TypedArrays if needed.\n // TODO: consider to remove following function and replace it with `Kotlin.doubleCompareTo` (see misc.js)\n var totalOrderComparator = function (a, b) {\n if (a < b) return -1;\n if (a > b) return 1;\n\n if (a === b) {\n if (a !== 0) return 0;\n\n var ia = 1 / a;\n return ia === 1 / b ? 0 : (ia < 0 ? -1 : 1);\n }\n\n return a !== a ? (b !== b ? 0 : 1) : -1\n };\n\n for (var i = 0; i < arrays.length; ++i) {\n var TypedArray = arrays[i];\n if (typeof TypedArray.prototype.sort === \"undefined\") {\n Object.defineProperty(TypedArray.prototype, 'sort', {\n value: function(compareFunction) {\n return Array.prototype.sort.call(this, compareFunction || totalOrderComparator);\n }\n });\n }\n}\n)();\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\nKotlin.Kind = {\n CLASS: \"class\",\n INTERFACE: \"interface\",\n OBJECT: \"object\"\n};\n\nKotlin.callGetter = function (thisObject, klass, propertyName) {\n var propertyDescriptor = Object.getOwnPropertyDescriptor(klass, propertyName);\n if (propertyDescriptor != null && propertyDescriptor.get != null) {\n return propertyDescriptor.get.call(thisObject);\n }\n\n propertyDescriptor = Object.getOwnPropertyDescriptor(thisObject, propertyName);\n if (propertyDescriptor != null && \"value\" in propertyDescriptor) {\n return thisObject[propertyName];\n }\n\n return Kotlin.callGetter(thisObject, Object.getPrototypeOf(klass), propertyName);\n};\n\nKotlin.callSetter = function (thisObject, klass, propertyName, value) {\n var propertyDescriptor\n = Object.getOwnPropertyDescriptor(klass, propertyName);\n if (propertyDescriptor != null && propertyDescriptor.set != null) {\n propertyDescriptor.set.call(thisObject, value);\n return;\n }\n\n propertyDescriptor = Object.getOwnPropertyDescriptor(thisObject, propertyName);\n if (propertyDescriptor != null && \"value\" in propertyDescriptor) {\n thisObject[propertyName] = value;\n return\n }\n\n Kotlin.callSetter(thisObject, Object.getPrototypeOf(klass), propertyName, value);\n};\n\nfunction isInheritanceFromInterface(ctor, iface) {\n if (ctor === iface) return true;\n\n var metadata = ctor.$metadata$;\n if (metadata != null) {\n var interfaces = metadata.interfaces;\n for (var i = 0; i < interfaces.length; i++) {\n if (isInheritanceFromInterface(interfaces[i], iface)) {\n return true;\n }\n }\n }\n\n var superPrototype = ctor.prototype != null ? Object.getPrototypeOf(ctor.prototype)
```

```
 : null;\n    var superConstructor = superPrototype != null ? superPrototype.constructor : null;\n    return superConstructor != null && isInheritanceFromInterface(superConstructor, iface);\n}\n\n/**\n *\n * @param {*} object\n * @param {Function|Object} klass\n * @returns {Boolean}\n */\nKotlin.isType = function (object, klass) {\n    if (klass === Object) {\n        switch (typeof object) {\n            case \"string\":\n            case \"number\":\n            case \"boolean\":\n            case \"function\":\n                return true;\n            default:\n                return object instanceof Object;\n        }\n    }\n\n    if (object == null || klass == null || (typeof object !== 'object' && typeof object !== 'function')) {\n        return false;\n    }\n\n    if (typeof klass === \"function\" && object instanceof klass) {\n        return true;\n    }\n\n    var proto = Object.getPrototypeOf(klass);\n    var constructor = proto != null ? proto.constructor
 : null;\n    if (constructor != null && \"$metadata$\" in constructor) {\n        var metadata = constructor.$metadata$;\n        if (metadata.kind === Kotlin.Kind.OBJECT) {\n            return object === klass;\n        }\n    }\n\n    var klassMetadata = klass.$metadata$;\n\n    // In WebKit (JavaScriptCore) for some interfaces from DOM typeof returns \"object\", nevertheless they can be used in RHS of instanceof\n    if (klassMetadata == null) {\n        return object instanceof klass;\n    }\n\n    if (klassMetadata.kind === Kotlin.Kind.INTERFACE && object.constructor != null) {\n        return isInheritanceFromInterface(object.constructor, klass);\n    }\n\n    return false;\n};\n\nKotlin.isNumber = function (a) {\n    return typeof a == \"number\" || a instanceof Kotlin.Long;\n};\n\nKotlin.isChar = function (value) {\n    return value instanceof Kotlin.BoxedChar\n};\n\nKotlin.isComparable = function (value) {\n    var type = typeof value;\n\n    return type === \"string\"
 ||\n            type === \"boolean\" ||\n            Kotlin.isNumber(value) ||\n            Kotlin.isType(value, Kotlin.kotlin.Comparable);\n};\n\nKotlin.isCharSequence = function (value) {\n    return typeof value === \"string\" || Kotlin.isType(value, Kotlin.kotlin.CharSequence);\n};","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// a package is omitted to get declarations directly under the module\n\n@PublishedApi\nexternal internal fun <T> Array(size: Int): Array<T>\n\n@JsName(\"newArray\")\nfun <T> newArray(size: Int, initValue: T) = fillArrayVal(Array<T>(size), initValue)\n\n@JsName(\"newArrayF\")\ninline fun <T> arrayWithFun(size: Int, init: (Int) -> T) = fillArrayFun(Array<T>(size), init)\n\n@JsName(\"fillArray\")\ninline fun <T> fillArrayFun(array: Array<T>, init: (Int) -> T): Array<T> {\n    for (i in 0..array.size
 - 1) {\n        array[i] = init(i)\n    }\n    return array\n}\n\n@JsName(\"booleanArray\")\nfun booleanArray(size: Int, init: dynamic): Array<Boolean> {\n    val result: dynamic = Array<Boolean>(size)\n    result.`$type$` = \"BooleanArray\"\n    return when (init) {\n        null, true -> fillArrayVal(result, false)\n        false -> result\n        else -> fillArrayFun<Boolean>(result, init)\n    }\n}\n\n@JsName(\"booleanArrayF\")\ninline fun booleanArrayWithFun(size: Int, init: (Int) -> Boolean): Array<Boolean> = fillArrayFun(booleanArray(size, false), init)\n\n@JsName(\"charArray\")\n@Suppress(\"UNUSED_PARAMETER\")\nfun charArray(size: Int, init: dynamic): Array<Char> {\n    val result = js(\"new Uint16Array(size)\")\n    result.`$type$` = \"CharArray\"\n    return when (init) {\n        null, true, false -> result // For consistency\n        else -> fillArrayFun<Char>(result, init)\n    }\n}\n\n@JsName(\"charArrayF\")\ninline fun charArrayWithFun(size: Int, init: (Int)
 -> Char): Array<Char> {\n    val array = charArray(size, null)\n    for (i in 0..array.size - 1) {\n        @Suppress(\"UNUSED_VARIABLE\") // used in js block\n        val value = init(i)\n        js(\"array[i] = value;\")\n    }\n    return array\n}\n\n@JsName(\"untypedCharArrayF\")\ninline fun untypedCharArrayWithFun(size: Int, init: (Int) -> Char): Array<Char> {\n    val array = Array<Char>(size)\n    for (i in 0..array.size - 1) {\n        @Suppress(\"UNUSED_VARIABLE\") // used in js block\n        val value = init(i)\n        js(\"array[i] = value;\")\n    }\n    return array\n}\n\n@JsName(\"longArray\")\nfun longArray(size: Int, init: dynamic): Array<Long> {\n    val result: dynamic = Array<Long>(size)\n    result.`$type$` = \"LongArray\"\n    return when (init) {\n        null, true -> fillArrayVal(result, 0L)\n        false -> result\n        else -> fillArrayFun<Long>(result, init)\n    }\n}\n\n@JsName(\"longArrayF\")\ninline fun longArrayWithFun(size: Int, init: (Int) -> Long):
```

Array<Long> = fillArrayFun(longArray(size, false), init)\n\nprivate fun <T> fillArrayVal(array: Array<T>, initValue: T): Array<T> {\n for (i in 0..array.size - 1) {\n array[i] = initValue\n }\n return array\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\npublic class Enum<T : Enum<T>> : Comparable<Enum<T>> {\n @JsName(\"name$\") private var _name: String = \"\"\n @JsName(\"ordinal$\") private var _ordinal: Int = 0\n\n val name: String\n get() = _name\n\n val ordinal: Int\n get() = _ordinal\n\n override fun compareTo(other: Enum<T>) = ordinal.compareTo(other.ordinal)\n\n override fun equals(other: Any?) = this === other\n\n override fun hashCode(): Int = js(\"Kotlin.identityHashCode\")(this)\n\n override fun toString() = name\n\n companion object\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js.internal\n\n@JsName(\"DoubleCompanionObject\")\ninternal object DoubleCompanionObject {\n @JsName(\"MIN_VALUE\")\n const val MIN_VALUE: Double = 4.9E-324\n\n @JsName(\"MAX_VALUE\")\n const val MAX_VALUE: Double = 1.7976931348623157E308\n\n @JsName(\"POSITIVE_INFINITY\")\n @Suppress(\"DIVISION_BY_ZERO\")\n const val POSITIVE_INFINITY: Double = 1.0 / 0.0\n\n @JsName(\"NEGATIVE_INFINITY\")\n @Suppress(\"DIVISION_BY_ZERO\")\n const val NEGATIVE_INFINITY: Double = -1.0 / 0.0\n\n @JsName(\"NaN\")\n @Suppress(\"DIVISION_BY_ZERO\")\n const val NaN: Double = -(0.0 / 0.0)\n\n @JsName(\"SIZE_BYTES\")\n const val SIZE_BYTES = 8\n\n @JsName(\"SIZE_BITS\")\n const val SIZE_BITS = 64\n}\n\n@JsName(\"FloatCompanionObject\")\ninternal object FloatCompanionObject {\n @JsName(\"MIN_VALUE\")\n const val MIN_VALUE: Float = 1.4E-45F\n\n @JsName(\"MAX_VALUE\")\n const val MAX_VALUE: Float = 3.4028235E38F\n\n @JsName(\"POSITIVE_INFINITY\")\n @Suppress(\"DIVISION_BY_ZERO\")\n const val POSITIVE_INFINITY: Float = 1.0F / 0.0F\n\n @JsName(\"NEGATIVE_INFINITY\")\n @Suppress(\"DIVISION_BY_ZERO\")\n const val NEGATIVE_INFINITY: Float = -1.0F / 0.0F\n\n @JsName(\"NaN\")\n @Suppress(\"DIVISION_BY_ZERO\")\n const val NaN: Float = -(0.0F / 0.0F)\n\n @JsName(\"SIZE_BYTES\")\n const val SIZE_BYTES = 4\n\n @JsName(\"SIZE_BITS\")\n const val SIZE_BITS = 32\n}\n\n@JsName(\"IntCompanionObject\")\ninternal object IntCompanionObject {\n @JsName(\"MIN_VALUE\")\n val MIN_VALUE: Int = -2147483647 - 1\n\n @JsName(\"MAX_VALUE\")\n val MAX_VALUE: Int = 2147483647\n\n @JsName(\"SIZE_BYTES\")\n const val SIZE_BYTES = 4\n\n @JsName(\"SIZE_BITS\")\n const val SIZE_BITS = 32\n}\n\n@JsName(\"LongCompanionObject\")\ninternal object LongCompanionObject {\n @JsName(\"MIN_VALUE\")\n val MIN_VALUE: Long = js(\"Kotlin.Long.MIN_VALUE\")\n\n @JsName(\"MAX_VALUE\")\n val MAX_VALUE: Long = js(\"Kotlin.Long.MAX_VALUE\")\n\n @JsName(\"SIZE_BYTES\")\n const val SIZE_BYTES = 8\n\n @JsName(\"SIZE_BITS\")\n const val SIZE_BITS = 64\n}\n\n@JsName(\"ShortCompanionObject\")\ninternal object ShortCompanionObject {\n @JsName(\"MIN_VALUE\")\n val MIN_VALUE: Short = -32768\n\n @JsName(\"MAX_VALUE\")\n val MAX_VALUE: Short = 32767\n\n @JsName(\"SIZE_BYTES\")\n const val SIZE_BYTES = 2\n\n @JsName(\"SIZE_BITS\")\n const val SIZE_BITS = 16\n}\n\n@JsName(\"ByteCompanionObject\")\ninternal object ByteCompanionObject {\n @JsName(\"MIN_VALUE\")\n val MIN_VALUE: Byte = -128\n\n @JsName(\"MAX_VALUE\")\n val MAX_VALUE: Byte = 127\n\n @JsName(\"SIZE_BYTES\")\n const val SIZE_BYTES = 1\n\n @JsName(\"SIZE_BITS\")\n const val SIZE_BITS = 8\n}\n\n@JsName(\"CharCompanionObject\")\ninternal object CharCompanionObject {\n @JsName(\"MIN_VALUE\")\n public const val MIN_VALUE: Char = '\\u0000'\n\n @JsName(\"MAX_VALUE\")\n public const val MAX_VALUE: Char = '\\uFFFF'\n\n @JsName(\"MIN_HIGH_SURROGATE\")\n public const val MIN_HIGH_SURROGATE: Char = '\\uD800'\n\n @JsName(\"MAX_HIGH_SURROGATE\")\n public const val MAX_HIGH_SURROGATE: Char =

'\\uDBFF'\n\n    @JsName(\"MIN_LOW_SURROGATE\")\n    public const val MIN_LOW_SURROGATE: Char = '\\uDC00'\n\n    @JsName(\"MAX_LOW_SURROGATE\")\n    public const val MAX_LOW_SURROGATE: Char = '\\uDFFF'\n\n    @JsName(\"MIN_SURROGATE\")\n    public const val MIN_SURROGATE: Char = MIN_HIGH_SURROGATE\n\n    @JsName(\"MAX_SURROGATE\")\n    public const val MAX_SURROGATE: Char = MAX_LOW_SURROGATE\n\n    @JsName(\"SIZE_BYTES\")\n    const val SIZE_BYTES = 2\n\n    @JsName(\"SIZE_BITS\")\n    const val SIZE_BITS = 16\n}\n\ninternal  object  StringCompanionObject {}\n\ninternal  object BooleanCompanionObject {}\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"ArraysKt\")\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component1(): T {\n    return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component1(): Byte {\n    return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component1(): Short {\n    return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component1(): Int {\n    return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component1(): Long {\n    return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component1(): Float {\n    return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component1(): Double {\n    return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component1(): Boolean {\n    return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component1(): Char {\n    return get(0)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component2(): T {\n    return get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component2(): Byte {\n    return get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun

ShortArray.component2(): Short {\n return get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component2(): Int {\n return get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component2(): Long {\n return get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component2(): Float {\n return get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component2(): Double {\n return get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component2(): Boolean {\n return get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component2(): Char {\n return get(1)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component3(): T {\n return get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component3(): Byte {\n return get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component3(): Short {\n return get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component3(): Int {\n return get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component3(): Long {\n return get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component3(): Float {\n return get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component3(): Double {\n return get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component3(): Boolean {\n return get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component3(): Char {\n return get(2)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component4(): T {\n return

get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component4(): Byte {\n return get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component4(): Short {\n return get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component4(): Int {\n return get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component4(): Long {\n return get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component4(): Float {\n return get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component4(): Double {\n return get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component4(): Boolean {\n return get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component4(): Char {\n return get(3)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component5(): T {\n return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component5(): Byte {\n return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component5(): Short {\n return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component5(): Int {\n return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component5(): Long {\n return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component5(): Float {\n return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component5(): Double {\n return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n

*/\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component5(): Boolean {\n return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component5(): Char {\n return get(4)\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic operator fun <@kotlin.internal.OnlyInputTypes T> Array<out T>.contains(element: T): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic operator fun ByteArray.contains(element: Byte): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic operator fun ShortArray.contains(element: Short): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic operator fun IntArray.contains(element: Int): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic operator fun LongArray.contains(element: Long): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\n@Deprecated(\"The function has unclear behavior when searching for NaN or zero values and will be removed soon. Use 'any { it == element }' instead to continue using this behavior, or '.asList().contains(element: T)' to get the same search behavior as in a list.\", ReplaceWith(\"any { it == element }\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\n@Suppress(\"DEPRECATION_ERROR\")\npublic operator fun FloatArray.contains(element: Float): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\n@Deprecated(\"The function has unclear behavior when searching for NaN or zero values and will be removed soon. Use 'any { it == element }' instead to continue using this behavior, or '.asList().contains(element: T)' to get the same search behavior as in a list.\", ReplaceWith(\"any { it == element }\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\n@Suppress(\"DEPRECATION_ERROR\")\npublic operator fun DoubleArray.contains(element: Double): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic operator fun BooleanArray.contains(element: Boolean): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic operator fun CharArray.contains(element: Char): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun <T> Array<out T>.elementAt(index: Int): T\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun ByteArray.elementAt(index: Int): Byte\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun ShortArray.elementAt(index: Int): Short\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun IntArray.elementAt(index: Int): Int\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun LongArray.elementAt(index: Int): Long\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun FloatArray.elementAt(index: Int): Float\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun DoubleArray.elementAt(index: Int): Double\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample

samples.collections.Collections.Elements.elementAt\n */\npublic expect fun BooleanArray.elementAt(index: Int): Boolean\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun CharArray.elementAt(index: Int): Char\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n    return if (index >= 0 && index <= lastIndex)
 get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Byte): Byte {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Short): Short {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling
 the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Int): Int {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Long): Long {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n
 */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Float): Float {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Double): Double {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.elementAtOrElse(index:
 Int, defaultValue: (Int) -> Boolean): Boolean {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Char): Char {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.elementAtOrNull(index: Int): T? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out

of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.elementAtOrNull(index: Int): Byte? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.elementAtOrNull(index: Int): Short? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.elementAtOrNull(index: Int): Int? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.elementAtOrNull(index: Int): Long? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.elementAtOrNull(index: Int): Float? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.elementAtOrNull(index: Int): Double? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.elementAtOrNull(index: Int): Boolean? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.elementAtOrNull(index: Int): Char? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.find(predicate: (T) -> Boolean): T? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic
inline fun ByteArray.find(predicate: (Byte) -> Boolean): Byte? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.find(predicate: (Short) -> Boolean): Short? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.find(predicate: (Int) -> Boolean): Int? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.find(predicate:
(Long) -> Boolean): Long? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.find(predicate: (Float) -> Boolean): Float? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.find(predicate: (Double) -> Boolean): Double? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample

samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.find(predicate: (Boolean) -> Boolean): Boolean? {\n
return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.find(predicate: (Char) -> Boolean): Char? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.findLast(predicate: (T) -> Boolean): T? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.findLast(predicate: (Byte) -> Boolean): Byte? {\n return lastOrNull(predicate)\n}\n\n/**\n
* Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.findLast(predicate: (Short) -> Boolean): Short? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.findLast(predicate: (Int) -> Boolean): Int? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.findLast(predicate: (Long) -> Boolean): Long? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the
given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.findLast(predicate: (Float) -> Boolean): Float? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.findLast(predicate: (Double) -> Boolean): Double? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.findLast(predicate: (Boolean) -> Boolean): Boolean? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null`
if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.findLast(predicate: (Char) -> Boolean): Char? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun <T> Array<out T>.first(): T {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun ByteArray.first(): Byte {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun ShortArray.first(): Short {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[0]\n}\n\n/**\n * Returns first element.\n
* @throws [NoSuchElementException] if the array is empty.\n */\npublic fun IntArray.first(): Int {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun LongArray.first(): Long {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun FloatArray.first(): Float {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return

this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun DoubleArray.first(): Double {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun BooleanArray.first(): Boolean {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun CharArray.first(): Char {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[0]\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun <T> Array<out T>.first(predicate: (T) -> Boolean): T {\n for (element in this) if (predicate(element)) return element\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun ByteArray.first(predicate: (Byte) -> Boolean): Byte {\n
for (element in this) if (predicate(element)) return element\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun ShortArray.first(predicate: (Short) -> Boolean): Short {\n for (element in this) if (predicate(element)) return element\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun IntArray.first(predicate: (Int) -> Boolean): Int {\n for (element in this) if (predicate(element)) return element\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException]
if no such element is found.\n */\npublic inline fun LongArray.first(predicate: (Long) -> Boolean): Long {\n for (element in this) if (predicate(element)) return element\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun FloatArray.first(predicate: (Float) -> Boolean): Float {\n for (element in this) if (predicate(element)) return element\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun DoubleArray.first(predicate: (Double) -> Boolean): Double {\n for (element in this) if (predicate(element)) return element\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun BooleanArray.first(predicate: (Boolean) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return element\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun CharArray.first(predicate: (Char) -> Boolean): Char {\n for (element in this) if (predicate(element)) return element\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first non-null value produced by [transform] function being applied to elements of this array in iteration order,\n * or throws [NoSuchElementException] if no non-null value was produced.\n * \n * @sample samples.collections.Collections.Transformations.firstNotNullOf\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Any> Array<out T>.firstNotNullOf(transform: (T) -> R?): R {\n return firstNotNullOfOrNull(transform) ?: throw NoSuchElementException(\"No element of the array was transformed to a non-null value.\")\n}\n\n/**\n * Returns the first non-null value produced by [transform] function being applied to elements of this array in iteration order,\n * or `null` if no non-null value was produced.\n * \n * @sample samples.collections.Collections.Transformations.firstNotNullOf\n

*/\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Any> Array<out T>.firstNotNullOfOrNull(transform: (T) -> R?): R? {\n for (element in this) {\n val result = transform(element)\n if (result != null) {\n return result\n }\n }\n return null\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun <T> Array<out T>.firstOrNull(): T? {\n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun ByteArray.firstOrNull(): Byte? {\n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun ShortArray.firstOrNull(): Short? {\n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun IntArray.firstOrNull(): Int? {\n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun LongArray.firstOrNull(): Long? {\n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun FloatArray.firstOrNull(): Float? {\n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null`
if the array is empty.\n */\npublic fun DoubleArray.firstOrNull(): Double? {\n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun BooleanArray.firstOrNull(): Boolean? {\n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun CharArray.firstOrNull(): Char? {\n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun <T> Array<out T>.firstOrNull(predicate: (T) -> Boolean): T? {\n for (element in this) if (predicate(element)) return element\n return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun ByteArray.firstOrNull(predicate: (Byte) -> Boolean): Byte? {\n for (element in this) if (predicate(element)) return element\n
return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun ShortArray.firstOrNull(predicate: (Short) -> Boolean): Short? {\n for (element in this) if (predicate(element)) return element\n return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun IntArray.firstOrNull(predicate: (Int) -> Boolean): Int? {\n for (element in this) if (predicate(element)) return element\n return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun LongArray.firstOrNull(predicate: (Long) -> Boolean): Long? {\n for (element in this) if (predicate(element)) return element\n return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun FloatArray.firstOrNull(predicate:
(Float) -> Boolean): Float? {\n for (element in this) if (predicate(element)) return element\n return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun DoubleArray.firstOrNull(predicate: (Double) -> Boolean): Double? {\n for (element in this) if (predicate(element)) return element\n return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun BooleanArray.firstOrNull(predicate: (Boolean) -> Boolean): Boolean? {\n for (element in this) if (predicate(element)) return element\n return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun CharArray.firstOrNull(predicate: (Char) -> Boolean): Char? {\n for (element in this) if (predicate(element)) return element\n return null\n}\n\n/**\n * Returns an element
at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.getOrElse(index: Int, defaultValue: (Int) -> T): T {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.getOrElse(index: Int, defaultValue: (Int) -> Byte): Byte {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.getOrElse(index: Int,

defaultValue: (Int) -> Short): Short {\n return if (index >= 0
&& index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.getOrElse(index: Int, defaultValue: (Int) -> Int): Int {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.getOrElse(index: Int, defaultValue: (Int) -> Long): Long {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.getOrElse(index:
Int, defaultValue: (Int) -> Float): Float {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.getOrElse(index: Int, defaultValue: (Int) -> Double): Double {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.getOrElse(index: Int, defaultValue: (Int) -> Boolean): Boolean {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index]
is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.getOrElse(index: Int, defaultValue: (Int) -> Char): Char {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n */\npublic fun <T> Array<out T>.getOrNull(index: Int): T? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n */\npublic fun ByteArray.getOrNull(index: Int): Byte? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n
*/\npublic fun ShortArray.getOrNull(index: Int): Short? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n */\npublic fun IntArray.getOrNull(index: Int): Int? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n */\npublic fun LongArray.getOrNull(index: Int): Long? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n */\npublic fun FloatArray.getOrNull(index:
Int): Float? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n */\npublic fun DoubleArray.getOrNull(index: Int): Double? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n */\npublic fun BooleanArray.getOrNull(index: Int): Boolean? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n */\npublic fun CharArray.getOrNull(index: Int): Char? {\n

return if (index >= 0 && index
<= lastIndex) get(index) else null\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T> Array<out T>.indexOf(element: T): Int {\n if (element == null) {\n for (index in indices) {\n if (this[index] == null) {\n return index\n }\n }\n } else {\n for (index in indices) {\n if (element == this[index]) {\n return index\n }\n }\n }\n return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun ByteArray.indexOf(element: Byte): Int {\n for (index in indices) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun ShortArray.indexOf(element: Short): Int {\n for (index in indices)
{\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun IntArray.indexOf(element: Int): Int {\n for (index in indices) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun LongArray.indexOf(element: Long): Int {\n for (index in indices) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\n@Deprecated(\"The function has unclear behavior when searching for NaN or zero values and will be removed soon. Use 'indexOfFirst { it == element }' instead to continue using this behavior, or '.asList().indexOf(element: T)' to get the same
search behavior as in a list.\", ReplaceWith(\"indexOfFirst { it == element }\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\npublic fun FloatArray.indexOf(element: Float): Int {\n for (index in indices) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\n@Deprecated(\"The function has unclear behavior when searching for NaN or zero values and will be removed soon. Use 'indexOfFirst { it == element }' instead to continue using this behavior, or '.asList().indexOf(element: T)' to get the same search behavior as in a list.\", ReplaceWith(\"indexOfFirst { it == element }\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\npublic fun DoubleArray.indexOf(element: Double): Int {\n for (index in indices) {\n if (element == this[index]) {\n return index\n }\n }\n
return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun BooleanArray.indexOf(element: Boolean): Int {\n for (index in indices) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun CharArray.indexOf(element: Char): Int {\n for (index in indices) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun <T> Array<out T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n for (index in indices) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate],
or -1 if the array does not contain such element.\n */\npublic inline fun ByteArray.indexOfFirst(predicate: (Byte) -> Boolean): Int {\n for (index in indices) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun ShortArray.indexOfFirst(predicate: (Short) -> Boolean): Int {\n for (index in indices) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun IntArray.indexOfFirst(predicate: (Int) -> Boolean): Int {\n for (index in indices) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the first element matching
element matching

the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun LongArray.indexOfFirst(predicate: (Long) -> Boolean): Int {\n for (index in indices) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun FloatArray.indexOfFirst(predicate: (Float) -> Boolean): Int {\n for (index in indices) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun DoubleArray.indexOfFirst(predicate: (Double) -> Boolean): Int {\n for (index in indices) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun BooleanArray.indexOfFirst(predicate: (Boolean) -> Boolean): Int {\n for (index in indices) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun CharArray.indexOfFirst(predicate: (Char) -> Boolean): Int {\n for (index in indices) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun <T> Array<out T>.indexOfLast(predicate: (T) -> Boolean): Int {\n for (index in indices.reversed()) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun ByteArray.indexOfLast(predicate: (Byte) -> Boolean): Int {\n for (index in indices.reversed()) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun ShortArray.indexOfLast(predicate: (Short) -> Boolean): Int {\n for (index in indices.reversed()) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun IntArray.indexOfLast(predicate: (Int) -> Boolean): Int {\n for (index in indices.reversed()) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun LongArray.indexOfLast(predicate: (Long) -> Boolean): Int {\n for (index in indices.reversed()) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun FloatArray.indexOfLast(predicate: (Float) -> Boolean): Int {\n for (index in indices.reversed()) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun DoubleArray.indexOfLast(predicate: (Double) -> Boolean):
Int {\n for (index in indices.reversed()) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun BooleanArray.indexOfLast(predicate: (Boolean) -> Boolean): Int {\n for (index in indices.reversed()) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun CharArray.indexOfLast(predicate: (Char) -> Boolean): Int {\n for (index in indices.reversed()) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n
*/\npublic fun <T> Array<out T>.last(): T {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n

*/\npublic fun ByteArray.last(): Byte {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun ShortArray.last(): Short {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun IntArray.last():
Int {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun LongArray.last(): Long {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun FloatArray.last(): Float {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun DoubleArray.last(): Double {\n if (isEmpty())\n throw
NoSuchElementException(\"Array is empty.\")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun BooleanArray.last(): Boolean {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun CharArray.last(): Char {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun <T> Array<out T>.last(predicate: (T) -> Boolean): T {\n for
(index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun ByteArray.last(predicate: (Byte) -> Boolean): Byte {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun ShortArray.last(predicate: (Short) -> Boolean): Short
{\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun IntArray.last(predicate: (Int) -> Boolean): Int {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun LongArray.last(predicate: (Long) -> Boolean):

Long {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun FloatArray.last(predicate: (Float) -> Boolean): Float {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun DoubleArray.last(predicate: (Double) -> Boolean): Double {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun BooleanArray.last(predicate: (Boolean) -> Boolean): Boolean {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun CharArray.last(predicate: (Char) -> Boolean): Char {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T> Array<out T>.lastIndexOf(element: T): Int {\n if (element == null) {\n for (index in indices.reversed()) {\n if (this[index] == null) {\n return index\n }\n }\n } else {\n for (index in indices.reversed()) {\n if (element == this[index]) {\n return index\n }\n }\n }\n return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\npublic fun ByteArray.lastIndexOf(element: Byte): Int {\n for (index in indices.reversed())
{\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\npublic fun ShortArray.lastIndexOf(element: Short): Int {\n for (index in indices.reversed()) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\npublic fun IntArray.lastIndexOf(element: Int): Int {\n for (index in indices.reversed()) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\npublic fun LongArray.lastIndexOf(element: Long): Int {\n for (index in indices.reversed()) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns
last index of [element], or -1 if the array does not contain element.\n */\n@Deprecated(\"The function has unclear behavior when searching for NaN or zero values and will be removed soon. Use 'indexOfLast { it == element }' instead to continue using this behavior, or '.asList().lastIndexOf(element: T)' to get the same search behavior as in a list.\", ReplaceWith(\"indexOfLast { it == element }\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\npublic fun FloatArray.lastIndexOf(element: Float): Int {\n for (index in indices.reversed()) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\n@Deprecated(\"The function has unclear behavior when searching for NaN or zero values and will be removed soon. Use 'indexOfLast { it == element }' instead to continue using this behavior, or '.asList().lastIndexOf(element: T)' to get

the same search behavior as in a list.\", ReplaceWith(\"indexOfLast { it == element }\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\npublic fun DoubleArray.lastIndexOf(element: Double): Int {\n for (index in indices.reversed()) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\npublic fun BooleanArray.lastIndexOf(element: Boolean): Int {\n for (index in indices.reversed()) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\npublic fun CharArray.lastIndexOf(element: Char): Int {\n for (index in indices.reversed()) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns the last element, or `null`
if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun <T> Array<out T>.lastOrNull(): T? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun ByteArray.lastOrNull(): Byte? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun ShortArray.lastOrNull(): Short? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun IntArray.lastOrNull(): Int? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun LongArray.lastOrNull(): Long? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun FloatArray.lastOrNull(): Float? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun DoubleArray.lastOrNull(): Double? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun BooleanArray.lastOrNull(): Boolean? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun CharArray.lastOrNull(): Char? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun <T> Array<out T>.lastOrNull(predicate: (T) -> Boolean): T? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun ByteArray.lastOrNull(predicate: (Byte) -> Boolean): Byte? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null`
if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun ShortArray.lastOrNull(predicate: (Short) -> Boolean): Short? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun IntArray.lastOrNull(predicate: (Int) -> Boolean): Int? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun LongArray.lastOrNull(predicate: (Long) -> Boolean): Long?

{\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun FloatArray.lastOrNull(predicate: (Float) -> Boolean): Float? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun DoubleArray.lastOrNull(predicate: (Double) -> Boolean): Double? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun BooleanArray.lastOrNull(predicate: (Boolean) -> Boolean): Boolean? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun CharArray.lastOrNull(predicate: (Char) -> Boolean): Char? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.random(): T {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.random(): Byte {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.random(): Short {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.random(): Int {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.random(): Long {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.random(): Float {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.random(): Double {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.random(): Boolean {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.random(): Char {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun <T> Array<out T>.random(random: Random): T {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun ByteArray.random(random: Random): Byte {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n

*/\n@SinceKotlin(\"1.3\")\npublic
fun ShortArray.random(random: Random): Short {\n if (isEmpty())\n throw
NoSuchElementException(\"Array is empty.\")\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random
element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if
this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun IntArray.random(random: Random): Int {\n if
(isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic
fun LongArray.random(random: Random): Long {\n if (isEmpty())\n throw
NoSuchElementException(\"Array is empty.\")\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random
element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException
if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun FloatArray.random(random: Random): Float {\n if
(isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic
fun DoubleArray.random(random: Random): Double {\n if (isEmpty())\n throw
NoSuchElementException(\"Array is empty.\")\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random
element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if
this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun BooleanArray.random(random: Random): Boolean {\n
if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random
element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if
this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun CharArray.random(random: Random): Char {\n if
(isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun <T> Array<out T>.randomOrNull(): T? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this array, or `null` if this array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun ByteArray.randomOrNull(): Byte? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a random
element from this array, or `null` if this array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c
inline fun ShortArray.randomOrNull(): Short? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this array, or `null` if this array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun IntArray.randomOrNull(): Int? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a random
element from this array, or `null` if this array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun LongArray.randomOrNull(): Long? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this array, or `null` if this array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun FloatArray.randomOrNull(): Float? {\n return
randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun DoubleArray.randomOrNull(): Double? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this array, or `null` if this array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli

c inline fun BooleanArray.randomOrNull(): Boolean? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.randomOrNull(): Char? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T> Array<out T>.randomOrNull(random: Random): T? {\n    if (isEmpty())\n        return null\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun ByteArray.randomOrNull(random: Random): Byte? {\n    if (isEmpty())\n        return null\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun ShortArray.randomOrNull(random: Random): Short? {\n    if (isEmpty())\n        return null\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun IntArray.randomOrNull(random: Random): Int? {\n    if (isEmpty())\n        return null\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun LongArray.randomOrNull(random: Random): Long? {\n    if (isEmpty())\n        return null\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun FloatArray.randomOrNull(random: Random): Float? {\n    if (isEmpty())\n        return null\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun DoubleArray.randomOrNull(random: Random): Double? {\n    if (isEmpty())\n        return null\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun BooleanArray.randomOrNull(random: Random): Boolean? {\n    if (isEmpty())\n        return null\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun CharArray.randomOrNull(random: Random): Char? {\n    if (isEmpty())\n        return null\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun <T> Array<out T>.single(): T {\n    return when (size) {\n        0 -> throw NoSuchElementException(\"Array is empty.\")\n        1 -> this[0]\n        else -> throw IllegalArgumentException(\"Array has more than one element.\")\n    }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun ByteArray.single(): Byte {\n    return when (size) {\n        0 -> throw NoSuchElementException(\"Array is empty.\")\n        1 -> this[0]\n        else -> throw IllegalArgumentException(\"Array has more than one element.\")\n    }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun

ShortArray.single(): Short {\n return when (size) {\n 0 -> throw NoSuchElementException(\"Array is empty.\")\n 1 -> this[0]\n else -> throw IllegalArgumentException(\"Array has more than one element.\")\n }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun IntArray.single(): Int {\n return when (size) {\n 0 -> throw NoSuchElementException(\"Array is empty.\")\n 1 -> this[0]\n else -> throw IllegalArgumentException(\"Array has more than one element.\")\n }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun LongArray.single(): Long {\n return when (size) {\n 0 -> throw NoSuchElementException(\"Array is empty.\")\n 1 -> this[0]\n else -> throw IllegalArgumentException(\"Array has more than one element.\")\n }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun FloatArray.single(): Float
{\n return when (size) {\n 0 -> throw NoSuchElementException(\"Array is empty.\")\n 1 -> this[0]\n else -> throw IllegalArgumentException(\"Array has more than one element.\")\n }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun DoubleArray.single(): Double {\n return when (size) {\n 0 -> throw NoSuchElementException(\"Array is empty.\")\n 1 -> this[0]\n else -> throw IllegalArgumentException(\"Array has more than one element.\")\n }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun BooleanArray.single(): Boolean {\n return when (size) {\n 0 -> throw NoSuchElementException(\"Array is empty.\")\n 1 -> this[0]\n else -> throw IllegalArgumentException(\"Array has more than one element.\")\n }\n}\n\n/**\n * Returns the single element, or throws
an exception if the array is empty or has more than one element.\n */\npublic fun CharArray.single(): Char {\n return when (size) {\n 0 -> throw NoSuchElementException(\"Array is empty.\")\n 1 -> this[0]\n else -> throw IllegalArgumentException(\"Array has more than one element.\")\n }\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun <T> Array<out T>.single(predicate: (T) -> Boolean): T {\n var single: T? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n single = element\n found = true\n }\n }\n if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n @Suppress(\"UNCHECKED_CAST\")\n return single as T\n}\n\n/**\n
* Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun ByteArray.single(predicate: (Byte) -> Boolean): Byte {\n var single: Byte? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n single = element\n found = true\n }\n }\n if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n @Suppress(\"UNCHECKED_CAST\")\n return single as Byte\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun ShortArray.single(predicate: (Short) -> Boolean): Short {\n var single: Short? = null\n var found = false\n for (element in this) {\n if (predicate(element))
{\n if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n single = element\n found = true\n }\n }\n if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n @Suppress(\"UNCHECKED_CAST\")\n return single as Short\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun IntArray.single(predicate: (Int) -> Boolean): Int {\n var single: Int? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n single = element\n found = true\n }\n }\n if (!found) throw NoSuchElementException(\"Array contains no element

matching the predicate.\")\n    @Suppress(\"UNCHECKED_CAST\")\n
    return single as Int\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun LongArray.single(predicate: (Long) -> Boolean): Long {\n    var single: Long? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n            single = element\n            found = true\n        }\n    }\n    if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n    @Suppress(\"UNCHECKED_CAST\")\n    return single as Long\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun FloatArray.single(predicate: (Float) -> Boolean): Float {\n    var single: Float? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n            single = element\n            found = true\n        }\n    }\n    if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n    @Suppress(\"UNCHECKED_CAST\")\n    return single as Float\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun DoubleArray.single(predicate: (Double) -> Boolean): Double {\n    var single: Double? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n            single = element\n            found = true\n        }\n    }\n    if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n    @Suppress(\"UNCHECKED_CAST\")\n    return single as Double\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun BooleanArray.single(predicate: (Boolean) -> Boolean): Boolean {\n    var single: Boolean? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n            single = element\n            found = true\n        }\n    }\n    if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n    @Suppress(\"UNCHECKED_CAST\")\n    return single as Boolean\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun CharArray.single(predicate:
(Char) -> Boolean): Char {\n    var single: Char? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n            single = element\n            found = true\n        }\n    }\n    if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n    @Suppress(\"UNCHECKED_CAST\")\n    return single as Char\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun <T> Array<out T>.singleOrNull(): T? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun ByteArray.singleOrNull(): Byte? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun
ShortArray.singleOrNull(): Short? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun IntArray.singleOrNull(): Int? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun LongArray.singleOrNull(): Long? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun FloatArray.singleOrNull(): Float? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun DoubleArray.singleOrNull(): Double? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun BooleanArray.singleOrNull():

Boolean? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun CharArray.singleOrNull(): Char? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun <T> Array<out T>.singleOrNull(predicate: (T) -> Boolean): T? {\n var single: T? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun ByteArray.singleOrNull(predicate: (Byte) -> Boolean): Byte?
{\n var single: Byte? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun ShortArray.singleOrNull(predicate: (Short) -> Boolean): Short? {\n var single: Short? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun IntArray.singleOrNull(predicate: (Int) -> Boolean):
Int? {\n var single: Int? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun LongArray.singleOrNull(predicate: (Long) -> Boolean): Long? {\n var single: Long? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun FloatArray.singleOrNull(predicate: (Float)
-> Boolean): Float? {\n var single: Float? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun DoubleArray.singleOrNull(predicate: (Double) -> Boolean): Double? {\n var single: Double? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun BooleanArray.singleOrNull(predicate:
(Boolean) -> Boolean): Boolean? {\n var single: Boolean? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun CharArray.singleOrNull(predicate: (Char) -> Boolean): Char? {\n var single: Char? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n
*/\npublic fun <T> Array<out T>.drop(n: Int): List<T> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample

samples.collections.Collections.Transformations.drop\n */\npublic fun ByteArray.drop(n: Int): List<Byte> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun ShortArray.drop(n: Int): List<Short> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun IntArray.drop(n: Int): List<Int> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun LongArray.drop(n: Int): List<Long> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun FloatArray.drop(n: Int): List<Float> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun DoubleArray.drop(n: Int): List<Double> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun BooleanArray.drop(n: Int): List<Boolean> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun CharArray.drop(n: Int): List<Char> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Array<out T>.dropLast(n: Int): List<T> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun ByteArray.dropLast(n: Int): List<Byte> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun ShortArray.dropLast(n: Int): List<Short> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun IntArray.dropLast(n: Int): List<Int> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last

```
[n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun LongArray.dropLast(n: Int): List<Long> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun FloatArray.dropLast(n: Int): List<Float> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun DoubleArray.dropLast(n: Int): List<Double>
{\n    require(n
>= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size - n).coerceAtLeast(0))\n}\n\n/**\n
* Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n]
is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun
BooleanArray.dropLast(n: Int): List<Boolean> {\n    require(n >= 0) { \"Requested element count $n is less than
zero.\" }\n    return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last
[n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun CharArray.dropLast(n: Int): List<Char> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given
[predicate].\n
 * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun <T> Array<out
T>.dropLastWhile(predicate: (T) -> Boolean): List<T> {\n    for (index in lastIndex downTo 0) {\n        if
(!predicate(this[index])) {\n            return take(index + 1)\n        }\n    }\n    return emptyList()\n}\n\n/**\n * Returns
a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic inline fun ByteArray.dropLastWhile(predicate:
(Byte) -> Boolean): List<Byte> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n
return take(index + 1)\n        }\n    }\n    return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic inline fun ShortArray.dropLastWhile(predicate:
 (Short) -> Boolean): List<Short> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n
    return take(index + 1)\n        }\n    }\n    return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic inline fun IntArray.dropLastWhile(predicate:
(Int) -> Boolean): List<Int> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n
return take(index + 1)\n        }\n    }\n    return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic inline fun LongArray.dropLastWhile(predicate:
(Long) -> Boolean): List<Long> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n
  return take(index
 + 1)\n        }\n    }\n    return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements
that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n
*/\npublic inline fun FloatArray.dropLastWhile(predicate: (Float) -> Boolean): List<Float> {\n    for (index in
lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n            return take(index + 1)\n        }\n    }\n    return
emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun
DoubleArray.dropLastWhile(predicate: (Double) -> Boolean): List<Double> {\n    for (index in lastIndex downTo
0) {\n        if (!predicate(this[index])) {\n            return take(index + 1)\n        }\n    }\n    return
```

emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun BooleanArray.dropLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun CharArray.dropLastWhile(predicate: (Char) -> Boolean): List<Char> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun <T> Array<out T>.dropWhile(predicate: (T) -> Boolean): List<T> {\n var yielding = false\n val list = ArrayList<T>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun ByteArray.dropWhile(predicate: (Byte) -> Boolean): List<Byte> {\n var yielding = false\n val list = ArrayList<Byte>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun ShortArray.dropWhile(predicate: (Short) -> Boolean): List<Short> {\n var yielding = false\n val list = ArrayList<Short>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun IntArray.dropWhile(predicate: (Int) -> Boolean): List<Int> {\n var yielding = false\n val list = ArrayList<Int>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun LongArray.dropWhile(predicate: (Long) -> Boolean): List<Long> {\n var yielding = false\n val list = ArrayList<Long>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun FloatArray.dropWhile(predicate: (Float) -> Boolean): List<Float> {\n var yielding = false\n val list = ArrayList<Float>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun DoubleArray.dropWhile(predicate: (Double) -> Boolean): List<Double> {\n var yielding = false\n val list = ArrayList<Double>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun BooleanArray.dropWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n var yielding = false\n val list = ArrayList<Boolean>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun

CharArray.dropWhile(predicate: (Char) -> Boolean): List<Char> {\n    var yielding = false\n    val list = ArrayList<Char>()\n    for (item in this)\n        if (yielding)\n            list.add(item)\n        else if (!predicate(item)) {\n            list.add(item)\n            yielding = true\n        }\n    return list\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun <T> Array<out T>.filter(predicate: (T) -> Boolean): List<T> {\n    return filterTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun ByteArray.filter(predicate: (Byte) -> Boolean): List<Byte> {\n    return filterTo(ArrayList<Byte>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun ShortArray.filter(predicate: (Short) -> Boolean): List<Short> {\n    return filterTo(ArrayList<Short>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun IntArray.filter(predicate: (Int) -> Boolean): List<Int> {\n    return filterTo(ArrayList<Int>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun LongArray.filter(predicate: (Long) -> Boolean): List<Long> {\n    return filterTo(ArrayList<Long>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun FloatArray.filter(predicate: (Float) -> Boolean): List<Float> {\n    return filterTo(ArrayList<Float>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun DoubleArray.filter(predicate: (Double) -> Boolean): List<Double> {\n    return filterTo(ArrayList<Double>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun BooleanArray.filter(predicate: (Boolean) -> Boolean): List<Boolean> {\n    return filterTo(ArrayList<Boolean>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun CharArray.filter(predicate: (Char) -> Boolean): List<Char> {\n    return filterTo(ArrayList<Char>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun <T> Array<out T>.filterIndexed(predicate: (index: Int, T) -> Boolean): List<T> {\n    return filterIndexedTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun ByteArray.filterIndexed(predicate:
(index: Int, Byte) -> Boolean): List<Byte> {\n    return filterIndexedTo(ArrayList<Byte>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun ShortArray.filterIndexed(predicate: (index: Int, Short) -> Boolean): List<Short> {\n    return filterIndexedTo(ArrayList<Short>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun IntArray.filterIndexed(predicate:
(index: Int, Int)

-> Boolean): List<Int> {\n    return filterIndexedTo(ArrayList<Int>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun LongArray.filterIndexed(predicate: (index: Int, Long) -> Boolean): List<Long> {\n    return filterIndexedTo(ArrayList<Long>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun FloatArray.filterIndexed(predicate: (index: Int, Float) -> Boolean): List<Float> {\n    return filterIndexedTo(ArrayList<Float>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun DoubleArray.filterIndexed(predicate: (index: Int, Double) -> Boolean): List<Double> {\n    return filterIndexedTo(ArrayList<Double>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun BooleanArray.filterIndexed(predicate: (index: Int, Boolean) -> Boolean): List<Boolean> {\n    return filterIndexedTo(ArrayList<Boolean>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun CharArray.filterIndexed(predicate: (index: Int, Char) -> Boolean): List<Char> {\n    return filterIndexedTo(ArrayList<Char>(), predicate)\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <T, C : MutableCollection<in T>> Array<out T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C {\n    forEachIndexed { index, element
->\n        if (predicate(index, element)) destination.add(element)\n    }\n    return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <C : MutableCollection<in Byte>> ByteArray.filterIndexedTo(destination: C, predicate: (index: Int, Byte) -> Boolean): C {\n    forEachIndexed { index, element ->\n        if (predicate(index, element)) destination.add(element)\n    }\n    return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <C : MutableCollection<in Short>> ShortArray.filterIndexedTo(destination: C, predicate: (index: Int, Short) -> Boolean): C {\n    forEachIndexed { index, element ->\n        if (predicate(index, element)) destination.add(element)\n    }\n    return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <C : MutableCollection<in Int>> IntArray.filterIndexedTo(destination: C, predicate: (index: Int, Int) -> Boolean): C {\n    forEachIndexed { index, element ->\n        if (predicate(index, element)) destination.add(element)\n    }\n    return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the

given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <C : MutableCollection<in Long>> LongArray.filterIndexedTo(destination: C, predicate: (index: Int, Long) -> Boolean): C {\n    forEachIndexed { index, element ->\n        if (predicate(index, element)) destination.add(element)\n    }\n    return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <C : MutableCollection<in Float>> FloatArray.filterIndexedTo(destination: C, predicate: (index: Int, Float) -> Boolean):
C {\n    forEachIndexed { index, element ->\n        if (predicate(index, element)) destination.add(element)\n    }\n    return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <C : MutableCollection<in Double>> DoubleArray.filterIndexedTo(destination: C, predicate: (index: Int, Double) -> Boolean): C {\n    forEachIndexed { index, element ->\n        if (predicate(index, element)) destination.add(element)\n    }\n    return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on
the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <C : MutableCollection<in Boolean>> BooleanArray.filterIndexedTo(destination: C, predicate: (index: Int, Boolean) -> Boolean): C {\n    forEachIndexed { index, element ->\n        if (predicate(index, element)) destination.add(element)\n    }\n    return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <C : MutableCollection<in Char>> CharArray.filterIndexedTo(destination: C, predicate: (index: Int, Char) -> Boolean): C {\n    forEachIndexed { index, element ->\n        if (predicate(index, element)) destination.add(element)\n    }\n    return destination\n}\n\n/**\n
* Returns a list containing all elements that are instances of specified type parameter R.\n * \n * @sample samples.collections.Collections.Filtering.filterIsInstance\n */\npublic inline fun <reified R> Array<*>.filterIsInstance(): List<@kotlin.internal.NoInfer R> {\n    return filterIsInstanceTo(ArrayList<R>())\n}\n\n/**\n * Appends all elements that are instances of specified type parameter R to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterIsInstanceTo\n */\npublic inline fun <reified R, C : MutableCollection<in R>> Array<*>.filterIsInstanceTo(destination: C): C {\n    for (element in this) if (element is R) destination.add(element)\n    return destination\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun <T> Array<out T>.filterNot(predicate: (T) -> Boolean): List<T> {\n    return filterNotTo(ArrayList<T>(), predicate)\n}\n\n/**\n
* Returns a list containing all elements not matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun ByteArray.filterNot(predicate: (Byte) -> Boolean): List<Byte> {\n    return filterNotTo(ArrayList<Byte>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun ShortArray.filterNot(predicate: (Short) -> Boolean): List<Short> {\n    return filterNotTo(ArrayList<Short>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun IntArray.filterNot(predicate: (Int) -> Boolean): List<Int> {\n    return filterNotTo(ArrayList<Int>(),

predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun LongArray.filterNot(predicate: (Long) -> Boolean): List<Long> {\n    return filterNotTo(ArrayList<Long>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun FloatArray.filterNot(predicate: (Float) -> Boolean): List<Float> {\n    return filterNotTo(ArrayList<Float>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun DoubleArray.filterNot(predicate: (Double) -> Boolean): List<Double> {\n    return filterNotTo(ArrayList<Double>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun BooleanArray.filterNot(predicate: (Boolean) -> Boolean): List<Boolean> {\n    return filterNotTo(ArrayList<Boolean>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun CharArray.filterNot(predicate: (Char) -> Boolean): List<Char> {\n    return filterNotTo(ArrayList<Char>(), predicate)\n}\n\n/**\n * Returns a list containing all elements that are not `null`.\n * \n * @sample samples.collections.Collections.Filtering.filterNotNull\n */\npublic fun <T : Any> Array<out T?>.filterNotNull(): List<T> {\n    return filterNotNullTo(ArrayList<T>())\n}\n\n/**\n * Appends all elements that are not `null` to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterNotNullTo\n */\npublic fun <C : MutableCollection<in T>, T : Any> Array<out T?>.filterNotNullTo(destination: C): C {\n    for (element in this) if (element != null) destination.add(element)\n    return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <T, C : MutableCollection<in T>> Array<out T>.filterNotTo(destination: C, predicate: (T) -> Boolean): C {\n    for (element in this) if (!predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Byte>> ByteArray.filterNotTo(destination: C, predicate: (Byte) -> Boolean): C {\n    for (element in this) if (!predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Short>> ShortArray.filterNotTo(destination: C, predicate: (Short) -> Boolean): C {\n    for (element in this) if (!predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Int>> IntArray.filterNotTo(destination: C, predicate: (Int) -> Boolean): C {\n    for (element in this) if (!predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Long>> LongArray.filterNotTo(destination: C, predicate: (Long) -> Boolean): C {\n    for (element in this) if (!predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Float>> FloatArray.filterNotTo(destination: C, predicate: (Float) -> Boolean): C {\n    for (element in this) if (!predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Double>> DoubleArray.filterNotTo(destination: C, predicate: (Double) -> Boolean): C {\n    for (element in this) if

(!predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Boolean>> BooleanArray.filterNotTo(destination: C, predicate: (Boolean) -> Boolean): C {\n    for (element in this) if (!predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Char>> CharArray.filterNotTo(destination: C, predicate: (Char) -> Boolean): C {\n    for (element in this) if (!predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <T, C : MutableCollection<in T>> Array<out T>.filterTo(destination: C, predicate: (T) -> Boolean): C {\n    for (element in this) if (predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Byte>> ByteArray.filterTo(destination: C, predicate: (Byte) -> Boolean): C {\n    for (element in this) if (predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Short>> ShortArray.filterTo(destination: C, predicate: (Short) -> Boolean): C {\n    for (element in this) if (predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Int>> IntArray.filterTo(destination: C, predicate: (Int) -> Boolean): C {\n    for (element in this) if (predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Long>> LongArray.filterTo(destination: C, predicate: (Long) -> Boolean): C {\n    for (element in this) if (predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Float>> FloatArray.filterTo(destination: C, predicate: (Float) -> Boolean): C {\n    for (element in this) if (predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Double>> DoubleArray.filterTo(destination: C, predicate: (Double) -> Boolean): C {\n    for (element in this) if (predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Boolean>> BooleanArray.filterTo(destination: C, predicate: (Boolean) -> Boolean): C {\n    for (element in this) if (predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Char>> CharArray.filterTo(destination:
C, predicate: (Char) -> Boolean): C {\n    for (element in this) if (predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun <T> Array<out T>.slice(indices: IntRange): List<T> {\n    if (indices.isEmpty()) return listOf()\n    return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun ByteArray.slice(indices: IntRange): List<Byte> {\n    if (indices.isEmpty()) return listOf()\n    return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic

```
fun ShortArray.slice(indices: IntRange): List<Short> {\n    if (indices.isEmpty()) return listOf()\n    return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun IntArray.slice(indices: IntRange): List<Int> {\n    if (indices.isEmpty()) return listOf()\n    return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun LongArray.slice(indices: IntRange): List<Long> {\n    if (indices.isEmpty()) return listOf()\n    return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun FloatArray.slice(indices: IntRange): List<Float> {\n    if (indices.isEmpty()) return listOf()\n    return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun DoubleArray.slice(indices: IntRange): List<Double> {\n    if (indices.isEmpty())
    return listOf()\n    return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun BooleanArray.slice(indices: IntRange): List<Boolean> {\n    if (indices.isEmpty()) return listOf()\n    return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun CharArray.slice(indices: IntRange): List<Char> {\n    if (indices.isEmpty()) return listOf()\n    return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun <T> Array<out T>.slice(indices: Iterable<Int>): List<T> {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list = ArrayList<T>(size)\n    for (index in indices) {\n        list.add(get(index))\n    }\n
    return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun ByteArray.slice(indices: Iterable<Int>): List<Byte> {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list = ArrayList<Byte>(size)\n    for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun ShortArray.slice(indices: Iterable<Int>): List<Short> {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list = ArrayList<Short>(size)\n    for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun IntArray.slice(indices: Iterable<Int>): List<Int> {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list = ArrayList<Int>(size)\n    for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun LongArray.slice(indices: Iterable<Int>): List<Long> {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list = ArrayList<Long>(size)\n    for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun FloatArray.slice(indices: Iterable<Int>): List<Float> {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list = ArrayList<Float>(size)\n    for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun DoubleArray.slice(indices: Iterable<Int>): List<Double> {\n    val size = indices.collectionSizeOrDefault(10)\n
    if (size == 0) return emptyList()\n    val list = ArrayList<Double>(size)\n    for (index in indices) {\n    list.add(get(index))\n    }\n    return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun BooleanArray.slice(indices: Iterable<Int>): List<Boolean> {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list = ArrayList<Boolean>(size)\n    for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun CharArray.slice(indices: Iterable<Int>): List<Char> {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list = ArrayList<Char>(size)\n    for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun <T> Array<T>.sliceArray(indices:
```

Collection<Int>): Array<T> {\n val result = arrayOfNulls(this, indices.size)\n var targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun ByteArray.sliceArray(indices: Collection<Int>): ByteArray {\n val result = ByteArray(indices.size)\n var targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun ShortArray.sliceArray(indices: Collection<Int>): ShortArray {\n val result = ShortArray(indices.size)\n var targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun IntArray.sliceArray(indices: Collection<Int>): IntArray {\n val result = IntArray(indices.size)\n var targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun LongArray.sliceArray(indices: Collection<Int>): LongArray {\n val result = LongArray(indices.size)\n var targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun FloatArray.sliceArray(indices: Collection<Int>): FloatArray {\n val result = FloatArray(indices.size)\n var targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun DoubleArray.sliceArray(indices: Collection<Int>): DoubleArray {\n val result = DoubleArray(indices.size)\n var targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun BooleanArray.sliceArray(indices: Collection<Int>): BooleanArray {\n val result = BooleanArray(indices.size)\n var targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun CharArray.sliceArray(indices: Collection<Int>): CharArray {\n val result = CharArray(indices.size)\n var targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return result\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun <T> Array<T>.sliceArray(indices: IntRange): Array<T> {\n if (indices.isEmpty()) return copyOfRange(0, 0)\n return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun ByteArray.sliceArray(indices: IntRange): ByteArray {\n if (indices.isEmpty()) return ByteArray(0)\n return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun ShortArray.sliceArray(indices: IntRange): ShortArray {\n if (indices.isEmpty()) return ShortArray(0)\n return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun IntArray.sliceArray(indices: IntRange): IntArray {\n if (indices.isEmpty()) return IntArray(0)\n return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun LongArray.sliceArray(indices: IntRange): LongArray {\n if (indices.isEmpty()) return LongArray(0)\n return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun FloatArray.sliceArray(indices: IntRange): FloatArray {\n if (indices.isEmpty()) return FloatArray(0)\n return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun DoubleArray.sliceArray(indices: IntRange): DoubleArray {\n if (indices.isEmpty()) return DoubleArray(0)\n return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun BooleanArray.sliceArray(indices: IntRange): BooleanArray {\n if (indices.isEmpty()) return BooleanArray(0)\n return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at

indices in the specified [indices] range.\n */\npublic fun CharArray.sliceArray(indices: IntRange): CharArray {\n if (indices.isEmpty()) return CharArray(0)\n return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun <T> Array<out T>.take(n: Int): List<T> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >= size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<T>(n)\n for (item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun ByteArray.take(n: Int): List<Byte> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >= size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<Byte>(n)\n for (item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun ShortArray.take(n:
Int): List<Short> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >= size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<Short>(n)\n for (item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun IntArray.take(n: Int): List<Int> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >= size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<Int>(n)\n for (item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n
* Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun LongArray.take(n: Int): List<Long> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >= size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<Long>(n)\n for (item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun FloatArray.take(n: Int): List<Float> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >= size) return toList()\n
if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<Float>(n)\n for (item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun DoubleArray.take(n: Int): List<Double> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >= size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<Double>(n)\n for (item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n
*/\npublic fun BooleanArray.take(n: Int): List<Boolean> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >= size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<Boolean>(n)\n for (item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun CharArray.take(n: Int): List<Char> {\n

require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<Char>(n)\n    for (item in this) {\n        list.add(item)\n        if (++count == n)\n            break\n    }\n    return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun <T> Array<out T>.takeLast(n: Int): List<T> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list = ArrayList<T>(n)\n    for (index in size - n until size)\n        list.add(this[index])\n    return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun ByteArray.takeLast(n: Int): List<Byte> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list = ArrayList<Byte>(n)\n    for (index in size - n until size)\n        list.add(this[index])\n    return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun ShortArray.takeLast(n: Int): List<Short> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list = ArrayList<Short>(n)\n    for (index in size - n until size)\n        list.add(this[index])\n    return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun IntArray.takeLast(n: Int): List<Int> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list = ArrayList<Int>(n)\n    for (index in size - n until size)\n        list.add(this[index])\n    return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun LongArray.takeLast(n: Int): List<Long> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list = ArrayList<Long>(n)\n    for (index in size - n until size)\n        list.add(this[index])\n    return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun FloatArray.takeLast(n: Int): List<Float> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list = ArrayList<Float>(n)\n    for (index in size - n until size)\n        list.add(this[index])\n    return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun DoubleArray.takeLast(n: Int): List<Double> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list = ArrayList<Double>(n)\n    for (index in size - n until size)\n        list.add(this[index])\n    return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun BooleanArray.takeLast(n: Int): List<Boolean> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list = ArrayList<Boolean>(n)\n    for (index in size - n until size)\n        list.add(this[index])\n    return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun CharArray.takeLast(n: Int):

List<Char> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list = ArrayList<Char>(n)\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun <T> Array<out T>.takeLastWhile(predicate: (T) -> Boolean): List<T> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun ByteArray.takeLastWhile(predicate: (Byte) -> Boolean): List<Byte>
{\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun ShortArray.takeLastWhile(predicate: (Short) -> Boolean): List<Short> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun IntArray.takeLastWhile(predicate: (Int) -> Boolean): List<Int> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n * Returns a
list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun LongArray.takeLastWhile(predicate: (Long) -> Boolean): List<Long> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun FloatArray.takeLastWhile(predicate: (Float) -> Boolean): List<Float> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun DoubleArray.takeLastWhile(predicate: (Double) -> Boolean): List<Double> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun BooleanArray.takeLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun CharArray.takeLastWhile(predicate: (Char) -> Boolean): List<Char> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return drop(index + 1)\n }\n
}\n return toList()\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun <T> Array<out T>.takeWhile(predicate: (T) -> Boolean): List<T> {\n val list = ArrayList<T>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun ByteArray.takeWhile(predicate: (Byte) -> Boolean): List<Byte> {\n val list = ArrayList<Byte>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic
inline fun ShortArray.takeWhile(predicate: (Short) -> Boolean): List<Short> {\n val list = ArrayList<Short>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n *

Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun IntArray.takeWhile(predicate: (Int) -> Boolean): List<Int> {\n val list = ArrayList<Int>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun LongArray.takeWhile(predicate: (Long) -> Boolean): List<Long> {\n val list = ArrayList<Long>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun FloatArray.takeWhile(predicate: (Float) -> Boolean): List<Float> {\n val list = ArrayList<Float>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun DoubleArray.takeWhile(predicate: (Double) -> Boolean): List<Double> {\n val list = ArrayList<Double>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun BooleanArray.takeWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n val list = ArrayList<Boolean>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun CharArray.takeWhile(predicate: (Char) -> Boolean): List<Char> {\n val list = ArrayList<Char>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun <T> Array<T>.reverse(): Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in 0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun ByteArray.reverse(): Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in 0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun ShortArray.reverse(): Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in 0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun IntArray.reverse(): Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in 0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun LongArray.reverse(): Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in 0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun FloatArray.reverse(): Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in 0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun DoubleArray.reverse(): Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in 0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun BooleanArray.reverse(): Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in 0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n

this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun CharArray.reverse(): Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in 0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.4\")\npublic fun <T> Array<T>.reverse(fromIndex: Int, toIndex: Int): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n val midPoint = (fromIndex + toIndex) / 2\n if (fromIndex == midPoint) return\n var reverseIndex = toIndex - 1\n for (index in fromIndex until midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.4\")\npublic fun ByteArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n val midPoint = (fromIndex + toIndex) / 2\n if (fromIndex == midPoint) return\n var reverseIndex = toIndex - 1\n for (index in fromIndex until midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.4\")\npublic fun ShortArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n val midPoint = (fromIndex + toIndex) / 2\n if (fromIndex == midPoint) return\n var reverseIndex = toIndex - 1\n for (index in fromIndex until midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.4\")\npublic fun IntArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n val midPoint = (fromIndex + toIndex) / 2\n if (fromIndex == midPoint) return\n var reverseIndex = toIndex - 1\n for (index in fromIndex until midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.4\")\npublic fun LongArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n val midPoint = (fromIndex + toIndex) / 2\n if (fromIndex == midPoint) return\n var reverseIndex = toIndex - 1\n for (index in fromIndex until midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.4\")\npublic

```
fun FloatArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n
  AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val midPoint = (fromIndex + toIndex) / 2\n    if
(fromIndex == midPoint) return\n    var reverseIndex = toIndex - 1\n    for (index in fromIndex until midPoint) {\n
  val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n
  }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start
of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.4\")\npublic
fun DoubleArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n    AbstractList.checkRangeIndexes(fromIndex,
toIndex, size)\n    val midPoint = (fromIndex + toIndex) / 2\n    if
 (fromIndex == midPoint) return\n    var reverseIndex = toIndex - 1\n    for (index in fromIndex until midPoint) {\n
    val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--
\n    }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the
start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n *
@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this
array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*/\n@SinceKotlin(\"1.4\")\npublic fun BooleanArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val midPoint = (fromIndex + toIndex) / 2\n    if
(fromIndex == midPoint) return\n    var reverseIndex = toIndex - 1\n    for (index in fromIndex until midPoint)
 {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n
reverseIndex--\n    }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param
fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to
reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than
the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*/\n@SinceKotlin(\"1.4\")\npublic fun CharArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val midPoint = (fromIndex + toIndex) / 2\n    if
(fromIndex == midPoint) return\n    var reverseIndex = toIndex - 1\n    for (index in fromIndex until midPoint) {\n
  val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n
      reverseIndex--\n    }\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun <T>
Array<out T>.reversed(): List<T> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n
list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun
ByteArray.reversed(): List<Byte> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n
list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun
ShortArray.reversed(): List<Short> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n
list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun
IntArray.reversed(): List<Int> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n
list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun
 LongArray.reversed(): List<Long> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n
list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun
FloatArray.reversed(): List<Float> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n
list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun
DoubleArray.reversed(): List<Double> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n
list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun
BooleanArray.reversed(): List<Boolean> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n
list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun
CharArray.reversed(): List<Char> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n
  list.reverse()\n    return list\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n
*/\npublic fun <T> Array<T>.reversedArray(): Array<T> {\n    if (isEmpty()) return this\n    val result =
```

arrayOfNulls(this, size)\n    val lastIndex = lastIndex\n    for (i in 0..lastIndex)\n        result[lastIndex - i] = this[i]\n    return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun ByteArray.reversedArray(): ByteArray {\n    if (isEmpty()) return this\n    val result = ByteArray(size)\n    val lastIndex = lastIndex\n    for (i in 0..lastIndex)\n        result[lastIndex - i] = this[i]\n    return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun ShortArray.reversedArray(): ShortArray {\n    if (isEmpty()) return this\n    val result = ShortArray(size)\n    val lastIndex = lastIndex\n    for (i in 0..lastIndex)\n        result[lastIndex - i] = this[i]\n
    return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun IntArray.reversedArray(): IntArray {\n    if (isEmpty()) return this\n    val result = IntArray(size)\n    val lastIndex = lastIndex\n    for (i in 0..lastIndex)\n        result[lastIndex - i] = this[i]\n    return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun LongArray.reversedArray(): LongArray {\n    if (isEmpty()) return this\n    val result = LongArray(size)\n    val lastIndex = lastIndex\n    for (i in 0..lastIndex)\n result[lastIndex - i] = this[i]\n    return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun FloatArray.reversedArray(): FloatArray {\n    if (isEmpty()) return this\n    val result = FloatArray(size)\n    val lastIndex = lastIndex\n    for (i in 0..lastIndex)\n        result[lastIndex - i] = this[i]\n    return result\n}\n\n/**\n * Returns
 an array with elements of this array in reversed order.\n */\npublic fun DoubleArray.reversedArray(): DoubleArray {\n    if (isEmpty()) return this\n    val result = DoubleArray(size)\n    val lastIndex = lastIndex\n    for (i in 0..lastIndex)\n        result[lastIndex - i] = this[i]\n    return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun BooleanArray.reversedArray(): BooleanArray {\n    if (isEmpty()) return this\n    val result = BooleanArray(size)\n    val lastIndex = lastIndex\n    for (i in 0..lastIndex)\n        result[lastIndex - i] = this[i]\n    return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun CharArray.reversedArray(): CharArray {\n    if (isEmpty()) return this\n    val result = CharArray(size)\n    val lastIndex = lastIndex\n    for (i in 0..lastIndex)\n        result[lastIndex - i] = this[i]\n    return result\n}\n\n/**\n * Randomly shuffles elements in this
 array in-place.\n */\n@SinceKotlin(\"1.4\")\npublic fun <T> Array<T>.shuffle(): Unit {\n    shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin(\"1.4\")\npublic fun ByteArray.shuffle(): Unit {\n    shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin(\"1.4\")\npublic fun ShortArray.shuffle(): Unit {\n    shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin(\"1.4\")\npublic fun IntArray.shuffle(): Unit {\n    shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin(\"1.4\")\npublic fun LongArray.shuffle(): Unit {\n    shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin(\"1.4\")\npublic fun FloatArray.shuffle(): Unit {\n    shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin(\"1.4\")\npublic fun DoubleArray.shuffle():
 Unit {\n    shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin(\"1.4\")\npublic fun BooleanArray.shuffle(): Unit {\n    shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin(\"1.4\")\npublic fun CharArray.shuffle(): Unit {\n    shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n */\n@SinceKotlin(\"1.4\")\npublic fun <T> Array<T>.shuffle(random: Random): Unit {\n    for (i in lastIndex downTo 1) {\n        val j = random.nextInt(i + 1)\n        val copy = this[i]\n        this[i] = this[j]\n        this[j] = copy\n    }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n */\n@SinceKotlin(\"1.4\")\npublic fun ByteArray.shuffle(random: Random): Unit {\n    for (i in lastIndex downTo 1) {\n        val j = random.nextInt(i + 1)\n        val copy = this[i]\n        this[i] = this[j]\n        this[j] = copy\n

}\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n */\n@SinceKotlin(\"1.4\")\npublic fun ShortArray.shuffle(random: Random): Unit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] = this[j]\n this[j] = copy\n }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n */\n@SinceKotlin(\"1.4\")\npublic fun IntArray.shuffle(random: Random): Unit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] = this[j]\n this[j] = copy\n }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n */\n@SinceKotlin(\"1.4\")\npublic fun LongArray.shuffle(random: Random): Unit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] = this[j]\n this[j] = copy\n }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n */\n@SinceKotlin(\"1.4\")\npublic fun FloatArray.shuffle(random: Random): Unit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] = this[j]\n this[j] = copy\n }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n */\n@SinceKotlin(\"1.4\")\npublic fun DoubleArray.shuffle(random: Random): Unit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] = this[j]\n this[j] = copy\n }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n */\n@SinceKotlin(\"1.4\")\npublic fun BooleanArray.shuffle(random: Random): Unit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] = this[j]\n this[j] = copy\n }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n */\n@SinceKotlin(\"1.4\")\npublic fun CharArray.shuffle(random: Random): Unit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] = this[j]\n this[j] = copy\n }\n}\n\n/**\n * Sorts elements in the array in-place according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>> Array<out T>.sortBy(crossinline selector: (T) -> R?): Unit {\n if (size > 1) sortWith(compareBy(selector))\n}\n\n/**\n * Sorts elements in the array in-place descending according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>> Array<out T>.sortByDescending(crossinline selector: (T) -> R?): Unit {\n if (size > 1) sortWith(compareByDescending(selector))\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Array<out T>.sortDescending(): Unit {\n sortWith(reverseOrder())\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\npublic fun ByteArray.sortDescending(): Unit {\n if

(size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\npublic fun ShortArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\npublic fun IntArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\npublic fun LongArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\npublic fun FloatArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\npublic fun DoubleArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\npublic fun CharArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Array<out T>.sorted(): List<T> {\n return sortedArray().asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun ByteArray.sorted(): List<Byte> {\n return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun ShortArray.sorted(): List<Short> {\n return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun IntArray.sorted(): List<Int> {\n return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun LongArray.sorted(): List<Long> {\n return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun FloatArray.sorted(): List<Float> {\n return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun DoubleArray.sorted(): List<Double> {\n return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun CharArray.sorted(): List<Char> {\n return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Array<T>.sortedArray(): Array<T> {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\npublic fun ByteArray.sortedArray(): ByteArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\npublic fun ShortArray.sortedArray(): ShortArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\npublic fun IntArray.sortedArray(): IntArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\npublic fun LongArray.sortedArray(): LongArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\npublic fun FloatArray.sortedArray(): FloatArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\npublic fun DoubleArray.sortedArray(): DoubleArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\npublic fun CharArray.sortedArray(): CharArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after

sorting.\n */\npublic fun <T : Comparable<T>> Array<T>.sortedArrayDescending(): Array<T> {\n if (isEmpty()) return this\n return this.copyOf().apply { sortWith(reverseOrder()) }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\npublic fun ByteArray.sortedArrayDescending(): ByteArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\npublic fun ShortArray.sortedArrayDescending(): ShortArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\npublic fun IntArray.sortedArrayDescending(): IntArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\npublic fun LongArray.sortedArrayDescending(): LongArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\npublic fun FloatArray.sortedArrayDescending(): FloatArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\npublic fun DoubleArray.sortedArrayDescending(): DoubleArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\npublic fun CharArray.sortedArrayDescending(): CharArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according the specified [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T> Array<out T>.sortedArrayWith(comparator: Comparator<in T>): Array<out T> {\n if (isEmpty()) return this\n return this.copyOf().apply { sortWith(comparator) }\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n * \n * @sample samples.collections.Collections.Sorting.sortedBy\n */\npublic inline fun <T, R : Comparable<R>> Array<out T>.sortedBy(crossinline selector: (T) -> R?): List<T> {\n return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n * \n * @sample samples.collections.Collections.Sorting.sortedBy\n */\npublic inline fun <R : Comparable<R>> ByteArray.sortedBy(crossinline selector: (Byte) -> R?): List<Byte> {\n return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n * \n * @sample samples.collections.Collections.Sorting.sortedBy\n */\npublic inline fun <R : Comparable<R>> ShortArray.sortedBy(crossinline selector: (Short) -> R?): List<Short> {\n return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n * \n * @sample samples.collections.Collections.Sorting.sortedBy\n */\npublic inline fun <R : Comparable<R>> IntArray.sortedBy(crossinline selector: (Int) -> R?): List<Int> {\n return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n * \n * @sample samples.collections.Collections.Sorting.sortedBy\n */\npublic inline fun <R : Comparable<R>> LongArray.sortedBy(crossinline selector: (Long) -> R?): List<Long> {\n return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n * \n * @sample samples.collections.Collections.Sorting.sortedBy\n */\npublic inline fun <R : Comparable<R>> FloatArray.sortedBy(crossinline selector: (Float) -> R?): List<Float> {\n return sortedWith(compareBy(selector))\n}\n\n/**\n

```
 * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n * \n * @sample samples.collections.Collections.Sorting.sortedBy\n */\npublic inline fun <R : Comparable<R>> DoubleArray.sortedBy(crossinline selector: (Double) -> R?): List<Double> {\n    return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n * \n * @sample samples.collections.Collections.Sorting.sortedBy\n */\npublic inline fun <R : Comparable<R>> BooleanArray.sortedBy(crossinline selector: (Boolean) -> R?): List<Boolean> {\n    return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n * \n * @sample samples.collections.Collections.Sorting.sortedBy\n */\npublic inline fun <R : Comparable<R>> CharArray.sortedBy(crossinline selector: (Char) -> R?): List<Char> {\n    return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>> Array<out T>.sortedByDescending(crossinline selector: (T) -> R?): List<T> {\n    return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> ByteArray.sortedByDescending(crossinline selector: (Byte) -> R?): List<Byte> {\n    return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the
 value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> ShortArray.sortedByDescending(crossinline selector: (Short) -> R?): List<Short> {\n    return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> IntArray.sortedByDescending(crossinline selector: (Int) -> R?): List<Int> {\n    return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> LongArray.sortedByDescending(crossinline selector: (Long) -> R?): List<Long> {\n    return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned
 by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> FloatArray.sortedByDescending(crossinline selector: (Float) -> R?): List<Float> {\n    return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> DoubleArray.sortedByDescending(crossinline selector: (Double) -> R?): List<Double> {\n    return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> BooleanArray.sortedByDescending(crossinline selector: (Boolean) -> R?): List<Boolean> {\n    return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned
 by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> CharArray.sortedByDescending(crossinline selector: (Char) -> R?): List<Char> {\n    return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Array<out T>.sortedDescending(): List<T> {\n    return sortedWith(reverseOrder())\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n */\npublic fun ByteArray.sortedDescending(): List<Byte> {\n    return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their
```

natural sort order.\n */\npublic fun ShortArray.sortedDescending(): List<Short> {\n    return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns
 a list of all elements sorted descending according to their natural sort order.\n */\npublic fun IntArray.sortedDescending(): List<Int> {\n    return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n */\npublic fun LongArray.sortedDescending(): List<Long> {\n    return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n */\npublic fun FloatArray.sortedDescending(): List<Float> {\n    return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n */\npublic fun DoubleArray.sortedDescending(): List<Double> {\n    return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n */\npublic fun CharArray.sortedDescending(): List<Char> {\n    return
 copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T> Array<out T>.sortedWith(comparator: Comparator<in T>): List<T> {\n    return sortedArrayWith(comparator).asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun ByteArray.sortedWith(comparator: Comparator<in Byte>): List<Byte> {\n    return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun ShortArray.sortedWith(comparator: Comparator<in Short>): List<Short> {\n    return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun IntArray.sortedWith(comparator:
 Comparator<in Int>): List<Int> {\n    return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun LongArray.sortedWith(comparator: Comparator<in Long>): List<Long> {\n    return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun FloatArray.sortedWith(comparator: Comparator<in Float>): List<Float> {\n    return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun DoubleArray.sortedWith(comparator: Comparator<in Double>): List<Double> {\n    return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun BooleanArray.sortedWith(comparator:
 Comparator<in Boolean>): List<Boolean> {\n    return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun CharArray.sortedWith(comparator: Comparator<in Char>): List<Char> {\n    return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun <T> Array<out T>.asList(): List<T>\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun ByteArray.asList(): List<Byte>\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun ShortArray.asList(): List<Short>\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun IntArray.asList(): List<Int>\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun LongArray.asList(): List<Long>\n\n/**\n * Returns a [List] that wraps the original array.\n
 */\npublic expect fun FloatArray.asList(): List<Float>\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun DoubleArray.asList(): List<Double>\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun BooleanArray.asList(): List<Boolean>\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun CharArray.asList(): List<Char>\n\n/**\n * Returns `true` if the two specified arrays are *deeply* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * If two corresponding elements are nested arrays, they are also compared deeply.\n * If any of arrays contains itself on any nesting level the behavior is undefined.\n * \n * The elements of other types are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.LowPriorityInOverloadResolution\npublic

expect infix fun <T> Array<out T>.contentDeepEquals(other: Array<out T>): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *deeply* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The specified arrays are also considered deeply equal if both are `null`.\n * \n * If two corresponding elements are nested arrays, they are also compared deeply.\n * If any of arrays contains itself on any nesting level the behavior is undefined.\n * \n * The elements of other types are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\npublic expect infix fun <T> Array<out T>?.contentDeepEquals(other: Array<out T>?): Boolean\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n * Nested arrays are treated as lists too.\n * \n
* If any of arrays contains itself on any nesting level the behavior is undefined.\n
*/\n@SinceKotlin(\"1.1\")\n@kotlin.internal.LowPriorityInOverloadResolution\npublic expect fun <T> Array<out T>.contentDeepHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays contains itself on any nesting level the behavior is undefined.\n */\n@SinceKotlin(\"1.4\")\npublic expect fun <T> Array<out T>?.contentDeepHashCode(): Int\n\n/**\n * Returns a string representation of the contents of this array as if it is a [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays contains itself on any nesting level that reference\n * is rendered as `\"[...]\"` to prevent recursion.\n * \n * @sample samples.collections.Arrays.ContentOperations.contentDeepToString\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.LowPriorityInOverloadResolution\npublic expect fun <T> Array<out T>.contentDeepToString(): String\n\n/**\n * Returns a string representation of the contents of this array as if it is a [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays contains itself on any nesting level that reference\n * is rendered as `\"[...]\"` to prevent recursion.\n * \n * @sample samples.collections.Arrays.ContentOperations.contentDeepToString\n */\n@SinceKotlin(\"1.4\")\npublic expect fun <T> Array<out T>?.contentDeepToString(): String\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect
infix fun <T> Array<out T>.contentEquals(other: Array<out T>): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect infix fun ByteArray.contentEquals(other: ByteArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not
equal to `0.0`.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect infix fun ShortArray.contentEquals(other: ShortArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect infix fun IntArray.contentEquals(other: IntArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n *

The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect infix fun LongArray.contentEquals(other: LongArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect infix fun FloatArray.contentEquals(other: FloatArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect infix fun DoubleArray.contentEquals(other: DoubleArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect infix fun BooleanArray.contentEquals(other: BooleanArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect infix fun CharArray.contentEquals(other: CharArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\npublic expect infix fun <T> Array<out T>?.contentEquals(other: Array<out T>?): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\npublic expect infix fun ByteArray?.contentEquals(other: ByteArray?): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\npublic expect infix fun ShortArray?.contentEquals(other: ShortArray?): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\npublic expect infix fun IntArray?.contentEquals(other: IntArray?): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\npublic expect infix fun LongArray?.contentEquals(other: LongArray?): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the

same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\npublic expect infix fun FloatArray?.contentEquals(other: FloatArray?): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\npublic expect infix fun DoubleArray?.contentEquals(other: DoubleArray?): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\npublic expect infix fun BooleanArray?.contentEquals(other: BooleanArray?): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\npublic expect infix fun CharArray?.contentEquals(other: CharArray?): Boolean\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect fun <T> Array<out T>.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect fun ByteArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect fun ShortArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect fun IntArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect fun LongArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect fun FloatArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect fun DoubleArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect fun BooleanArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect fun CharArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.4\")\npublic expect fun <T> Array<out T>?.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.4\")\npublic expect fun ByteArray?.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.4\")\npublic

expect fun ShortArray?.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.4\")\npublic expect fun IntArray?.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.4\")\npublic expect fun LongArray?.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.4\")\npublic expect fun FloatArray?.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.4\")\npublic expect fun DoubleArray?.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.4\")\npublic expect fun BooleanArray?.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.4\")\npublic expect fun CharArray?.contentHashCode(): Int\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect fun <T> Array<out T>.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect fun ByteArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect fun ShortArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect fun IntArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect fun LongArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect fun FloatArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect fun DoubleArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect fun BooleanArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect fun CharArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\npublic expect fun <T> Array<out T>?.contentToString(): String\n\n/**\n * Returns a

string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\npublic expect fun ByteArray?.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\npublic expect fun ShortArray?.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\npublic expect fun IntArray?.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\npublic expect fun LongArray?.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\npublic expect fun FloatArray?.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\npublic expect fun DoubleArray?.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\npublic expect fun BooleanArray?.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\npublic expect fun CharArray?.contentToString(): String\n\n/**\n * Copies this array or its subrange into the [destination] array and returns
that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun <T> Array<out T>.copyInto(destination: Array<T>, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): Array<T>\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when
that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun ByteArray.copyInto(destination: ByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ByteArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or

[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun ShortArray.copyInto(destination: ShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ShortArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun IntArray.copyInto(destination: IntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): IntArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun LongArray.copyInto(destination: LongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): LongArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun FloatArray.copyInto(destination: FloatArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): FloatArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic

expect fun DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): DoubleArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun BooleanArray.copyInto(destination: BooleanArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): BooleanArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): CharArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@Suppress(\"NO_ACTUAL_FOR_EXPECT\")\npublic expect fun <T> Array<T>.copyOf(): Array<T>\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic expect fun ByteArray.copyOf(): ByteArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic expect fun ShortArray.copyOf(): ShortArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic expect fun IntArray.copyOf(): IntArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic expect fun LongArray.copyOf(): LongArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic expect fun FloatArray.copyOf(): FloatArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic expect fun DoubleArray.copyOf(): DoubleArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic expect fun BooleanArray.copyOf(): BooleanArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic expect fun CharArray.copyOf(): CharArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic expect fun ByteArray.copyOf(newSize: Int): ByteArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated

or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic expect fun ShortArray.copyOf(newSize: Int): ShortArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic expect fun IntArray.copyOf(newSize:
Int): IntArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic expect fun LongArray.copyOf(newSize: Int): LongArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements
in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic expect fun FloatArray.copyOf(newSize: Int): FloatArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic expect fun DoubleArray.copyOf(newSize: Int): DoubleArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with `false` values if necessary.\n * \n * - If [newSize]
is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `false` values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic expect fun BooleanArray.copyOf(newSize: Int): BooleanArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with null char (`\\u0000`) values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with null char (`\\u0000`) values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic expect fun CharArray.copyOf(newSize: Int): CharArray\n\n/**\n
* Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with `null` values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `null` values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizingCopyOf\n */\n@Suppress(\"NO_ACTUAL_FOR_EXPECT\")\npublic expect fun <T> Array<T>.copyOf(newSize: Int): Array<T?>\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the

size of this array.\n * @throws IllegalArgumentException
if [fromIndex] is greater than [toIndex].\n */\n@Suppress(\"NO_ACTUAL_FOR_EXPECT\")\npublic expect fun <T> Array<T>.copyOfRange(fromIndex: Int, toIndex: Int): Array<T>\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic expect fun ByteArray.copyOfRange(fromIndex: Int, toIndex: Int): ByteArray\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or
[toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic expect fun ShortArray.copyOfRange(fromIndex: Int, toIndex: Int): ShortArray\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic expect fun IntArray.copyOfRange(fromIndex: Int, toIndex: Int): IntArray\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException
if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic expect fun LongArray.copyOfRange(fromIndex: Int, toIndex: Int): LongArray\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic expect fun FloatArray.copyOfRange(fromIndex: Int, toIndex: Int): FloatArray\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n
* \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic expect fun DoubleArray.copyOfRange(fromIndex: Int, toIndex: Int): DoubleArray\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic expect fun BooleanArray.copyOfRange(fromIndex: Int, toIndex: Int): BooleanArray\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex
the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic expect fun CharArray.copyOfRange(fromIndex: Int, toIndex: Int): CharArray\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun <T> Array<T>.fill(element: T, fromIndex: Int = 0,

toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun ByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun LongArray.fill(element: Long, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun FloatArray.fill(element: Float, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun DoubleArray.fill(element: Double, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun BooleanArray.fill(element: Boolean, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun CharArray.fill(element: Char, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val <T> Array<out T>.indices: IntRange\n    get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val ByteArray.indices: IntRange\n    get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val ShortArray.indices: IntRange\n    get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val IntArray.indices: IntRange\n    get() = IntRange(0, lastIndex)\n\n/**\n *

Returns the range of valid indices for the array.\n */\npublic val LongArray.indices: IntRange\n get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val FloatArray.indices: IntRange\n get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val DoubleArray.indices: IntRange\n get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val BooleanArray.indices: IntRange\n get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val CharArray.indices: IntRange\n get() = IntRange(0, lastIndex)\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic
inline fun <T> Array<out T>.isEmpty(): Boolean {\n return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.isEmpty(): Boolean {\n return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.isEmpty(): Boolean {\n return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.isEmpty(): Boolean {\n return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.isEmpty(): Boolean {\n return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.isEmpty(): Boolean {\n return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.isEmpty():
Boolean {\n return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.isEmpty(): Boolean {\n return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.isEmpty(): Boolean {\n return size == 0\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.isNotEmpty(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.isNotEmpty(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.isNotEmpty(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.isNotEmpty():
Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.isNotEmpty(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.isNotEmpty(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.isNotEmpty(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.isNotEmpty(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.isNotEmpty(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns the last valid index for the array.\n */\npublic val <T> Array<out T>.lastIndex: Int\n get() = size
- 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val ByteArray.lastIndex: Int\n get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val ShortArray.lastIndex: Int\n get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val IntArray.lastIndex: Int\n get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val LongArray.lastIndex: Int\n get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val FloatArray.lastIndex: Int\n get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val DoubleArray.lastIndex: Int\n get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val BooleanArray.lastIndex: Int\n get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val CharArray.lastIndex: Int\n get() = size - 1\n\n/**\n * Returns an array containing
all elements of the original array and then the given [element].\n
*/\n@Suppress(\"NO_ACTUAL_FOR_EXPECT\")\npublic expect operator fun <T> Array<T>.plus(element: T):

Array<T>\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun ByteArray.plus(element: Byte): ByteArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun ShortArray.plus(element: Short): ShortArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun IntArray.plus(element: Int): IntArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun LongArray.plus(element: Long): LongArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic

expect operator fun FloatArray.plus(element: Float): FloatArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun DoubleArray.plus(element: Double): DoubleArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun BooleanArray.plus(element: Boolean): BooleanArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun CharArray.plus(element: Char): CharArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\n@Suppress(\"NO_ACTUAL_FOR_EXPECT\")\npublic expect operator fun <T> Array<T>.plus(elements: Collection<T>): Array<T>\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun ByteArray.plus(elements: Collection<Byte>): ByteArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun ShortArray.plus(elements: Collection<Short>): ShortArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun IntArray.plus(elements: Collection<Int>): IntArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun LongArray.plus(elements: Collection<Long>): LongArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun FloatArray.plus(elements: Collection<Float>): FloatArray\n\n/**\n * Returns an array

containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun DoubleArray.plus(elements: Collection<Double>): DoubleArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun BooleanArray.plus(elements: Collection<Boolean>): BooleanArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun CharArray.plus(elements: Collection<Char>): CharArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NO_ACTUAL_FOR_EXPECT\")\npublic expect operator fun <T> Array<T>.plus(elements: Array<out T>): Array<T>\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given

[elements] array.\n */\npublic expect operator fun ByteArray.plus(elements: ByteArray): ByteArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun ShortArray.plus(elements: ShortArray): ShortArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun IntArray.plus(elements: IntArray): IntArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun LongArray.plus(elements: LongArray): LongArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun FloatArray.plus(elements: FloatArray): FloatArray\n\n/**\n * Returns an array containing all elements of the original

array and then all elements of the given [elements] array.\n */\npublic expect operator fun DoubleArray.plus(elements: DoubleArray): DoubleArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun BooleanArray.plus(elements: BooleanArray): BooleanArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun CharArray.plus(elements: CharArray): CharArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NO_ACTUAL_FOR_EXPECT\")\npublic expect fun <T> Array<T>.plusElement(element: T): Array<T>\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun IntArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun LongArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun ByteArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun ShortArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun DoubleArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun FloatArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun CharArray.sort(): Unit\n\n/**\n * Sorts the array in-place according to the natural order of its elements.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n * \n * @sample samples.collections.Arrays.Sorting.sortArrayOfComparable\n */\npublic expect fun <T : Comparable<T>> Array<out T>.sort(): Unit\n\n/**\n * Sorts a range in the array in-place.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArrayOfComparable\n */\n@SinceKotlin(\"1.4\")\npublic expect fun <T : Comparable<T>> Array<out T>.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n */\n@SinceKotlin(\"1.4\")\npublic expect fun ByteArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n */\n@SinceKotlin(\"1.4\")\npublic expect fun ShortArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n */\n@SinceKotlin(\"1.4\")\npublic expect fun IntArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException

if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n */\n@SinceKotlin(\"1.4\")\npublic expect fun LongArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n */\n@SinceKotlin(\"1.4\")\npublic expect fun FloatArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Sorts a range in the
array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n */\n@SinceKotlin(\"1.4\")\npublic expect fun DoubleArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n */\n@SinceKotlin(\"1.4\")\npublic expect fun CharArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.4\")\npublic fun <T : Comparable<T>> Array<out T>.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n    sortWith(reverseOrder(), fromIndex, toIndex)\n}\n\n/**\n * Sorts elements
of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.4\")\npublic fun ByteArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n    sort(fromIndex, toIndex)\n    reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex]
is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.4\")\npublic fun ShortArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n    sort(fromIndex, toIndex)\n    reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.4\")\npublic fun IntArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n    sort(fromIndex, toIndex)\n    reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified

range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.4\")\npublic fun LongArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n sort(fromIndex, toIndex)\n reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.4\")\npublic fun FloatArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n sort(fromIndex, toIndex)\n reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.4\")\npublic fun DoubleArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n sort(fromIndex, toIndex)\n reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.4\")\npublic fun CharArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n sort(fromIndex, toIndex)\n reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic expect fun <T> Array<out T>.sortWith(comparator: Comparator<in T>): Unit\n\n/**\n * Sorts a range in the array in-place with the given [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic expect fun <T> Array<out T>.sortWith(comparator: Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Returns an array of Boolean containing all of the elements of this generic array.\n */\npublic fun Array<out Boolean>.toBooleanArray(): BooleanArray {\n return BooleanArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Byte containing all of the elements of this generic array.\n */\npublic fun Array<out Byte>.toByteArray(): ByteArray {\n return ByteArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Char containing all of the elements of this generic array.\n */\npublic fun Array<out Char>.toCharArray(): CharArray {\n return CharArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Double containing all of the elements of this generic array.\n */\npublic fun Array<out Double>.toDoubleArray(): DoubleArray {\n return DoubleArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Float containing all of the elements of this generic array.\n */\npublic fun Array<out Float>.toFloatArray(): FloatArray {\n return FloatArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Int containing all of the elements of this generic array.\n */\npublic fun Array<out Int>.toIntArray(): IntArray {\n return IntArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Long containing all of the elements of this generic array.\n */\npublic fun Array<out Long>.toLongArray(): LongArray

{\n    return LongArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Short containing all of the elements of this generic array.\n */\npublic fun Array<out Short>.toShortArray(): ShortArray {\n    return ShortArray(size) { index -> this[index] }\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun ByteArray.toTypedArray(): Array<Byte>\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun ShortArray.toTypedArray(): Array<Short>\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun IntArray.toTypedArray(): Array<Int>\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun LongArray.toTypedArray(): Array<Long>\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive
array.\n */\npublic expect fun FloatArray.toTypedArray(): Array<Float>\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun DoubleArray.toTypedArray(): Array<Double>\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun BooleanArray.toTypedArray(): Array<Boolean>\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun CharArray.toTypedArray(): Array<Char>\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <T, K, V> Array<out T>.associate(transform:
(T) -> Pair<K, V>): Map<K, V> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <K, V> ByteArray.associate(transform: (Byte) -> Pair<K, V>): Map<K, V> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added
to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <K, V> ShortArray.associate(transform: (Short) -> Pair<K, V>): Map<K, V> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <K, V> IntArray.associate(transform: (Int) -> Pair<K, V>): Map<K, V> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <K, V> LongArray.associate(transform: (Long) -> Pair<K, V>): Map<K, V> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample

samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n
*/\npublic inline fun <K, V> FloatArray.associate(transform: (Float) -> Pair<K, V>): Map<K, V> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <K, V> DoubleArray.associate(transform: (Double) -> Pair<K, V>): Map<K, V> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n
* \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <K, V> BooleanArray.associate(transform: (Boolean) -> Pair<K, V>): Map<K, V> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <K, V> CharArray.associate(transform: (Char) -> Pair<K, V>): Map<K, V> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n
    return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <T, K> Array<out T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, T>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector]
 the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K> ByteArray.associateBy(keySelector: (Byte) -> K): Map<K, Byte> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, Byte>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K> ShortArray.associateBy(keySelector: (Short) -> K): Map<K, Short> {\n    val capacity
 = mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, Short>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K>

IntArray.associateBy(keySelector: (Int) -> K): Map<K, Int> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, Int>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned
 by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K> LongArray.associateBy(keySelector: (Long) -> K): Map<K, Long> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, Long>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K> FloatArray.associateBy(keySelector: (Float) -> K): Map<K, Float> {\n    val
 capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, Float>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K> DoubleArray.associateBy(keySelector: (Double) -> K): Map<K, Double> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, Double>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have
 the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K> BooleanArray.associateBy(keySelector: (Boolean) -> K): Map<K, Boolean> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, Boolean>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K> CharArray.associateBy(keySelector: (Char)
 -> K): Map<K, Char> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, Char>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n */\npublic inline fun <T, K, V> Array<out T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions
 applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the

original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n */\npublic inline fun <K, V> ByteArray.associateBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, V> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n */\npublic inline fun <K, V> ShortArray.associateBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, V> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n */\npublic inline fun <K, V> IntArray.associateBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, V> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n */\npublic inline fun <K, V> LongArray.associateBy(keySelector: (Long) -> K, valueTransform: (Long) -> V): Map<K, V> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have
the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n */\npublic inline fun <K, V> FloatArray.associateBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, V> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n */\npublic inline fun <K, V> DoubleArray.associateBy(keySelector: (Double) -> K, valueTransform: (Double) -> V): Map<K, V> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n */\npublic inline fun <K, V> BooleanArray.associateBy(keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): Map<K, V> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n

* Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n */\npublic inline fun <K, V> CharArray.associateBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, V> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n */\npublic inline fun <T, K, M : MutableMap<in K, in T>> Array<out T>.associateByTo(destination: M, keySelector: (T) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n */\npublic inline fun <K, M : MutableMap<in K, in Byte>> ByteArray.associateByTo(destination: M, keySelector: (Byte) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n */\npublic inline fun <K, M : MutableMap<in K, in Short>> ShortArray.associateByTo(destination: M, keySelector: (Short) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n */\npublic inline fun <K, M : MutableMap<in K, in Int>> IntArray.associateByTo(destination: M, keySelector: (Int) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n */\npublic inline fun <K, M : MutableMap<in K, in Long>> LongArray.associateByTo(destination: M, keySelector: (Long) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n */\npublic inline fun <K, M : MutableMap<in K, in Float>> FloatArray.associateByTo(destination: M, keySelector: (Float) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value

is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n */\npublic inline fun <K, M : MutableMap<in K, in Double>> DoubleArray.associateByTo(destination: M, keySelector: (Double) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n */\npublic inline fun <K, M : MutableMap<in K, in Boolean>> BooleanArray.associateByTo(destination: M, keySelector: (Boolean) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n */\npublic inline fun <K, M : MutableMap<in K, in Char>> CharArray.associateByTo(destination: M, keySelector: (Char) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n */\npublic inline fun <T, K, V, M : MutableMap<in K, in V>> Array<out T>.associateByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> ByteArray.associateByTo(destination: M, keySelector: (Byte) -> K, valueTransform: (Byte) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> ShortArray.associateByTo(destination: M, keySelector: (Short) -> K, valueTransform: (Short) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> IntArray.associateByTo(destination: M, keySelector: (Int) -> K, valueTransform: (Int) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable

map with key-value pairs,\n * where key is provided
by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> LongArray.associateByTo(destination: M, keySelector: (Long) -> K, valueTransform: (Long) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added
to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> FloatArray.associateByTo(destination: M, keySelector: (Float) -> K, valueTransform: (Float) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> DoubleArray.associateByTo(destination: M, keySelector:
(Double) -> K, valueTransform: (Double) -> V): M {\n for (element in this) {\n
destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> BooleanArray.associateByTo(destination: M, keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): M {\n for (element in this) {\n
destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination]
mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> CharArray.associateByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n
*/\npublic inline fun <T, K, V, M : MutableMap<in K, in V>> Array<out T>.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> ByteArray.associateTo(destination: M, transform: (Byte) -> Pair<K, V>): M {\n for

(element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform]
function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> ShortArray.associateTo(destination: M, transform: (Short) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> IntArray.associateTo(destination: M, transform: (Int) -> Pair<K, V>): M {\n for (element in this) {\n destination
+= transform(element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> LongArray.associateTo(destination: M, transform: (Long) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> FloatArray.associateTo(destination: M, transform: (Float) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> DoubleArray.associateTo(destination: M, transform: (Double) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of
two pairs would have the same key the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> BooleanArray.associateTo(destination: M, transform: (Boolean) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> CharArray.associateTo(destination: M, transform: (Char) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n
* Returns a [Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <K, V> Array<out K>.associateWith(valueSelector: (K) -> V): Map<K, V> {\n val result = LinkedHashMap<K, V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function

applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <V> ByteArray.associateWith(valueSelector: (Byte) -> V): Map<Byte, V> {\n    val result = LinkedHashMap<Byte, V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <V> ShortArray.associateWith(valueSelector: (Short) -> V): Map<Short, V> {\n    val result = LinkedHashMap<Short, V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <V> IntArray.associateWith(valueSelector: (Int) -> V): Map<Int, V> {\n    val result = LinkedHashMap<Int, V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <V> LongArray.associateWith(valueSelector: (Long) -> V): Map<Long, V> {\n    val result = LinkedHashMap<Long, V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <V> FloatArray.associateWith(valueSelector: (Float) -> V): Map<Float, V> {\n    val result = LinkedHashMap<Float, V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <V> DoubleArray.associateWith(valueSelector: (Double) -> V): Map<Double, V> {\n    val result = LinkedHashMap<Double, V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <V> BooleanArray.associateWith(valueSelector: (Boolean) -> V): Map<Boolean, V> {\n    val result = LinkedHashMap<Boolean, V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result,

valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <V> CharArray.associateWith(valueSelector: (Char) -> V): Map<Char, V> {\n    val result = LinkedHashMap<Char, V>(mapCapacity(size.coerceAtMost(128)).coerceAtLeast(16))\n    return associateWithTo(result, valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <K, V, M : MutableMap<in K, in V>> Array<out K>.associateWithTo(destination: M, valueSelector: (K) -> V): M {\n    for (element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to\n * that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Byte, in V>> ByteArray.associateWithTo(destination: M, valueSelector: (Byte) -> V): M {\n    for (element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Short, in V>> ShortArray.associateWithTo(destination: M, valueSelector: (Short) -> V): M {\n    for (element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Int, in V>> IntArray.associateWithTo(destination: M, valueSelector: (Int) -> V): M {\n    for (element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Long, in V>> LongArray.associateWithTo(destination: M, valueSelector: (Long) -> V): M {\n    for (element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Float, in V>> FloatArray.associateWithTo(destination: M, valueSelector: (Float) -> V): M {\n    for (element in this) {\n

destination.put(element, valueSelector(element))\n    }\n    return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Double, in V>> DoubleArray.associateWithTo(destination: M, valueSelector: (Double) -> V): M {\n    for (element in this) {\n        destination.put(element,
 valueSelector(element))\n    }\n    return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Boolean, in V>> BooleanArray.associateWithTo(destination: M, valueSelector: (Boolean) -> V): M {\n    for (element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied
 to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Char, in V>> CharArray.associateWithTo(destination: M, valueSelector: (Char) -> V): M {\n    for (element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <T, C : MutableCollection<in T>> Array<out T>.toCollection(destination: C): C {\n    for (item in this) {\n        destination.add(item)\n    }\n    return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Byte>> ByteArray.toCollection(destination: C): C {\n    for (item in this) {\n        destination.add(item)\n    }\n    return
 destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Short>> ShortArray.toCollection(destination: C): C {\n    for (item in this) {\n        destination.add(item)\n    }\n    return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Int>> IntArray.toCollection(destination: C): C {\n    for (item in this) {\n        destination.add(item)\n    }\n    return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Long>> LongArray.toCollection(destination: C): C {\n    for (item in this) {\n        destination.add(item)\n    }\n    return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Float>> FloatArray.toCollection(destination: C): C {\n    for (item in this) {\n        destination.add(item)\n
    }\n    return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Double>> DoubleArray.toCollection(destination: C): C {\n    for (item in this) {\n        destination.add(item)\n    }\n    return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Boolean>> BooleanArray.toCollection(destination: C): C {\n    for (item in this) {\n        destination.add(item)\n    }\n    return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Char>> CharArray.toCollection(destination: C): C {\n    for (item in this) {\n        destination.add(item)\n    }\n    return destination\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\npublic fun <T> Array<out T>.toHashSet(): HashSet<T> {\n    return toCollection(HashSet<T>(mapCapacity(size)))\n}\n\n/**\n

```
 * Returns a new [HashSet] of all elements.\n */\npublic fun ByteArray.toHashSet(): HashSet<Byte> {\n    return toCollection(HashSet<Byte>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\npublic fun ShortArray.toHashSet(): HashSet<Short> {\n    return toCollection(HashSet<Short>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\npublic fun IntArray.toHashSet(): HashSet<Int> {\n    return toCollection(HashSet<Int>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\npublic fun LongArray.toHashSet(): HashSet<Long> {\n    return toCollection(HashSet<Long>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\npublic fun FloatArray.toHashSet(): HashSet<Float> {\n    return toCollection(HashSet<Float>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\npublic fun DoubleArray.toHashSet(): HashSet<Double> {\n    return toCollection(HashSet<Double>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\npublic fun BooleanArray.toHashSet(): HashSet<Boolean> {\n    return toCollection(HashSet<Boolean>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\npublic fun CharArray.toHashSet(): HashSet<Char> {\n    return toCollection(HashSet<Char>(mapCapacity(size.coerceAtMost(128))))\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun <T> Array<out T>.toList(): List<T> {\n    return when (size) {\n        0 -> emptyList()\n        1 -> listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun ByteArray.toList(): List<Byte> {\n    return when (size) {\n        0 -> emptyList()\n        1 -> listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun ShortArray.toList(): List<Short> {\n    return when (size) {\n        0 -> emptyList()\n        1 -> listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun IntArray.toList(): List<Int> {\n    return when (size) {\n        0 -> emptyList()\n        1 -> listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun LongArray.toList(): List<Long> {\n    return when (size) {\n        0 -> emptyList()\n        1 -> listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun FloatArray.toList(): List<Float> {\n    return when (size) {\n        0 -> emptyList()\n        1 -> listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun DoubleArray.toList(): List<Double> {\n    return when (size) {\n        0 -> emptyList()\n        1 -> listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun BooleanArray.toList(): List<Boolean> {\n    return when (size) {\n        0 -> emptyList()\n        1 -> listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun CharArray.toList(): List<Char> {\n    return when (size) {\n        0 -> emptyList()\n        1 -> listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this array.\n */\npublic fun <T> Array<out T>.toMutableList(): MutableList<T> {\n    return ArrayList(this.asCollection())\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this array.\n */\npublic fun ByteArray.toMutableList(): MutableList<Byte> {\n    val list = ArrayList<Byte>(size)\n    for (item in this) list.add(item)\n    return list\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of
 this array.\n */\npublic fun ShortArray.toMutableList(): MutableList<Short> {\n    val list = ArrayList<Short>(size)\n    for (item in this) list.add(item)\n    return list\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this array.\n */\npublic fun IntArray.toMutableList(): MutableList<Int> {\n    val list = ArrayList<Int>(size)\n    for (item in this) list.add(item)\n    return list\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this array.\n */\npublic fun LongArray.toMutableList(): MutableList<Long> {\n    val list = ArrayList<Long>(size)\n    for (item in this) list.add(item)\n    return list\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this array.\n */\npublic fun FloatArray.toMutableList(): MutableList<Float> {\n    val list = ArrayList<Float>(size)\n    for (item in this) list.add(item)\n    return list\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this array.\n */\npublic fun
```

DoubleArray.toMutableList():
MutableList<Double> {\n val list = ArrayList<Double>(size)\n for (item in this) list.add(item)\n return list\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this array.\n */\npublic fun BooleanArray.toMutableList(): MutableList<Boolean> {\n val list = ArrayList<Boolean>(size)\n for (item in this) list.add(item)\n return list\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this array.\n */\npublic fun CharArray.toMutableList(): MutableList<Char> {\n val list = ArrayList<Char>(size)\n for (item in this) list.add(item)\n return list\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun <T> Array<out T>.toSet(): Set<T> {\n return when (size) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else -> toCollection(LinkedHashSet<T>(mapCapacity(size)))\n }\n}\n\n/**\n * Returns a [Set] of
all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun ByteArray.toSet(): Set<Byte> {\n return when (size) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else -> toCollection(LinkedHashSet<Byte>(mapCapacity(size)))\n }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun ShortArray.toSet(): Set<Short> {\n return when (size) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else -> toCollection(LinkedHashSet<Short>(mapCapacity(size)))\n }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun IntArray.toSet(): Set<Int> {\n return when (size) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else -> toCollection(LinkedHashSet<Int>(mapCapacity(size)))\n }\n}\n\n/**\n * Returns
a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun LongArray.toSet(): Set<Long> {\n return when (size) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else -> toCollection(LinkedHashSet<Long>(mapCapacity(size)))\n }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun FloatArray.toSet(): Set<Float> {\n return when (size) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else -> toCollection(LinkedHashSet<Float>(mapCapacity(size)))\n }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun DoubleArray.toSet(): Set<Double> {\n return when (size) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else -> toCollection(LinkedHashSet<Double>(mapCapacity(size)))\n }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun BooleanArray.toSet(): Set<Boolean> {\n return when (size) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else -> toCollection(LinkedHashSet<Boolean>(mapCapacity(size)))\n }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun CharArray.toSet(): Set<Char> {\n return when (size) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else -> toCollection(LinkedHashSet<Char>(mapCapacity(size.coerceAtMost(128))))\n }\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <T, R> Array<out T>.flatMap(transform: (T)
-> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R> ByteArray.flatMap(transform: (Byte) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R> ShortArray.flatMap(transform: (Short) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n

*/\npublic inline fun <R> IntArray.flatMap(transform: (Int) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R> LongArray.flatMap(transform: (Long) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R> FloatArray.flatMap(transform: (Float) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element
of original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R> DoubleArray.flatMap(transform: (Double) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R> BooleanArray.flatMap(transform: (Boolean) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R> CharArray.flatMap(transform: (Char) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of
all elements yielded from results of [transform] function being invoked on each element of original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapSequence\")\npublic inline fun <T, R> Array<out T>.flatMap(transform: (T) -> Sequence<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterable\")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Array<out T>.flatMapIndexed(transform:
(index: Int, T) -> Iterable<R>): List<R> {\n    return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterable\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> ByteArray.flatMapIndexed(transform: (index: Int, Byte) -> Iterable<R>): List<R> {\n    return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterable\")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> ShortArray.flatMapIndexed(transform: (index: Int, Short) -> Iterable<R>): List<R> {\n    return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterable\")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> IntArray.flatMapIndexed(transform: (index: Int, Int) -> Iterable<R>): List<R> {\n    return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all
elements yielded from results of [transform] function being invoked on each element\n * and its index in the
original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterable\")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> LongArray.flatMapIndexed(transform: (index: Int, Long) -> Iterable<R>): List<R> {\n    return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterable\")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> FloatArray.flatMapIndexed(transform: (index: Int, Float) -> Iterable<R>): List<R> {\n    return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterable\")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> DoubleArray.flatMapIndexed(transform: (index: Int, Double) -> Iterable<R>): List<R> {\n    return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterable\")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> BooleanArray.flatMapIndexed(transform: (index: Int, Boolean) -> Iterable<R>): List<R> {\n
return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded
from results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterable\")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> CharArray.flatMapIndexed(transform: (index: Int, Char) -> Iterable<R>): List<R> {\n    return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedSequence\")\n@kotlin.internal.InlineOnly\npubli
c inline fun <T, R> Array<out T>.flatMapIndexed(transform: (index: Int, T) -> Sequence<R>): List<R> {\n    return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterableTo\")\n@kotlin.internal.InlineOnly\npubli
c
inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapIndexedTo(destination: C, transform: (index:
Int, T) -> Iterable<R>): C {\n    var index = 0\n    for (element in this) {\n        val list = transform(index++,
element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from

results of [transform] function being invoked on each element\n * and its index in the original array, to the given [destination].\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterableTo\")\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> ByteArray.flatMapIndexedTo(destination: C, transform: (index: Int, Byte) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++, element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array, to the given [destination].\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterableTo\")\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> ShortArray.flatMapIndexedTo(destination: C, transform: (index: Int, Short) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++, element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array, to the given [destination].\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterableTo\")\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> IntArray.flatMapIndexedTo(destination: C, transform: (index: Int, Int) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++, element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array, to the given [destination].\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterableTo\")\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> LongArray.flatMapIndexedTo(destination: C, transform: (index: Int, Long) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++, element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array, to the given [destination].\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterableTo\")\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> FloatArray.flatMapIndexedTo(destination: C, transform: (index: Int, Float) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++, element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array, to the given [destination].\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterableTo\")\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> DoubleArray.flatMapIndexedTo(destination: C, transform: (index: Int, Double) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++, element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array, to the given [destination].\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterableTo\")\n@kotlin.internal.InlineOnly\npubli

c inline fun <R, C : MutableCollection<in R>> BooleanArray.flatMapIndexedTo(destination:
C, transform: (index: Int, Boolean) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list =
transform(index++, element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all
elements yielded from results of [transform] function being invoked on each element\n * and its index in the original
array, to the given [destination].\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterableTo\")\n@kotlin.internal.InlineOnly\npubli
c inline fun <R, C : MutableCollection<in R>> CharArray.flatMapIndexedTo(destination: C, transform: (index: Int,
Char) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++,
element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from
results of [transform]
function being invoked on each element\n * and its index in the original array, to the given [destination].\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedSequenceTo\")\n@kotlin.internal.InlineOnly\npu
blic inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapIndexedTo(destination: C, transform:
(index: Int, T) -> Sequence<R>): C {\n var index = 0\n for (element in this) {\n val list =
transform(index++, element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all
elements yielded from results of [transform] function being invoked on each element of original array, to the given
[destination].\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapTo(destination: C,
transform: (T) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n
destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline
fun <R, C : MutableCollection<in R>> ByteArray.flatMapTo(destination: C, transform: (Byte) -> Iterable<R>): C
{\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element of original array, to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>>
ShortArray.flatMapTo(destination: C, transform: (Short) -> Iterable<R>): C {\n for (element in this) {\n val
list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all
elements yielded from results of [transform] function being invoked
on each element of original array, to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in
R>> IntArray.flatMapTo(destination: C, transform: (Int) -> Iterable<R>): C {\n for (element in this) {\n val
list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all
elements yielded from results of [transform] function being invoked on each element of original array, to the given
[destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> LongArray.flatMapTo(destination: C,
transform: (Long) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n
destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline
fun <R, C : MutableCollection<in R>> FloatArray.flatMapTo(destination: C,
transform: (Float) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n
destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline
fun <R, C : MutableCollection<in R>> DoubleArray.flatMapTo(destination: C, transform: (Double) ->
Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n
}\n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being
invoked on each element of original array, to the given [destination].\n */\npublic inline fun <R, C :
MutableCollection<in R>> BooleanArray.flatMapTo(destination: C, transform: (Boolean) -> Iterable<R>): C {\n
for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n

}\n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> CharArray.flatMapTo(destination: C, transform: (Char) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapSequenceTo\")\npublic inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapTo(destination: C, transform: (T) -> Sequence<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <T, K> Array<out T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {\n return groupByTo(LinkedHashMap<K, MutableList<T>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> ByteArray.groupBy(keySelector: (Byte) -> K): Map<K, List<Byte>> {\n return groupByTo(LinkedHashMap<K, MutableList<Byte>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> ShortArray.groupBy(keySelector: (Short) -> K): Map<K, List<Short>> {\n return groupByTo(LinkedHashMap<K, MutableList<Short>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> IntArray.groupBy(keySelector: (Int) -> K): Map<K, List<Int>> {\n return groupByTo(LinkedHashMap<K, MutableList<Int>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> LongArray.groupBy(keySelector: (Long) -> K): Map<K, List<Long>> {\n return groupByTo(LinkedHashMap<K, MutableList<Long>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> FloatArray.groupBy(keySelector: (Float) -> K): Map<K, List<Float>> {\n return groupByTo(LinkedHashMap<K, MutableList<Float>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample

samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> DoubleArray.groupBy(keySelector: (Double) -> K): Map<K, List<Double>> {\n return groupByTo(LinkedHashMap<K, MutableList<Double>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> BooleanArray.groupBy(keySelector: (Boolean) -> K): Map<K, List<Boolean>> {\n return groupByTo(LinkedHashMap<K, MutableList<Boolean>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> CharArray.groupBy(keySelector: (Char) -> K): Map<K, List<Char>> {\n return groupByTo(LinkedHashMap<K, MutableList<Char>>(), keySelector)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V> Array<out T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> ByteArray.groupBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> ShortArray.groupBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> IntArray.groupBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> LongArray.groupBy(keySelector: (Long) -> K, valueTransform: (Long) -> V): Map<K, List<V>> {\n return

groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with
a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V>
FloatArray.groupBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V>
DoubleArray.groupBy(keySelector: (Double)
-> K, valueTransform: (Double) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> BooleanArray.groupBy(keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given
[keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> CharArray.groupBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector,
valueTransform)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <T, K, M : MutableMap<in K, MutableList<T>>> Array<out T>.groupByTo(destination:
M, keySelector: (T) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<T>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Byte>>> ByteArray.groupByTo(destination: M, keySelector: (Byte) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<Byte>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector]
function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Short>>> ShortArray.groupByTo(destination: M, keySelector: (Short) -> K): M {\n for (element in

this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<Short>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Int>>>
IntArray.groupByTo(destination: M, keySelector: (Int) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<Int>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Long>>> LongArray.groupByTo(destination: M, keySelector: (Long) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<Long>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Float>>> FloatArray.groupByTo(destination: M, keySelector: (Float) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<Float>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M
: MutableMap<in K, MutableList<Double>>> DoubleArray.groupByTo(destination: M, keySelector: (Double) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<Double>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Boolean>>> BooleanArray.groupByTo(destination: M, keySelector: (Boolean) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<Boolean>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Char>>> CharArray.groupByTo(destination: M, keySelector: (Char) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<Char>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The
[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V, M : MutableMap<in K, MutableList<V>>> Array<out T>.groupByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given

[keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> ByteArray.groupByTo(destination: M, keySelector: (Byte) -> K, valueTransform: (Byte) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> ShortArray.groupByTo(destination: M, keySelector: (Short) -> K, valueTransform: (Short) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>()
}\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> IntArray.groupByTo(destination: M, keySelector: (Int) -> K, valueTransform: (Int) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the
key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> LongArray.groupByTo(destination: M, keySelector: (Long) -> K, valueTransform: (Long) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> FloatArray.groupByTo(destination: M, keySelector: (Float) -> K, valueTransform: (Float) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> DoubleArray.groupByTo(destination: M, keySelector: (Double) -> K, valueTransform: (Double) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample

samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> BooleanArray.groupByTo(destination: M, keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>()
}\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> CharArray.groupByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Creates a [Grouping] source from an array to be used later with one of group-and-fold operations\n
* using the specified [keySelector] function to extract a key from each element.\n * \n * @sample samples.collections.Grouping.groupingByEachCount\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <T, K> Array<out T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> {\n return object : Grouping<T, K> {\n override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()\n override fun keyOf(element: T): K = keySelector(element)\n }\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <T, R> Array<out T>.map(transform: (T) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n
*/\npublic inline fun <R> ByteArray.map(transform: (Byte) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> ShortArray.map(transform: (Short) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> IntArray.map(transform: (Int) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n
*/\npublic inline fun <R> LongArray.map(transform: (Long) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> FloatArray.map(transform: (Float) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> DoubleArray.map(transform: (Double) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n
*/\npublic inline fun <R> BooleanArray.map(transform: (Boolean) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> CharArray.map(transform: (Char)

-> R): List<R> {\n    return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R> Array<out T>.mapIndexed(transform: (index: Int, T) -> R): List<R> {\n    return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results
of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R> ByteArray.mapIndexed(transform: (index: Int, Byte) -> R): List<R> {\n    return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R> ShortArray.mapIndexed(transform: (index: Int, Short) -> R): List<R> {\n    return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index
in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R> IntArray.mapIndexed(transform: (index: Int, Int) -> R): List<R> {\n    return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R> LongArray.mapIndexed(transform: (index: Int, Long) -> R): List<R> {\n    return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index
of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R> FloatArray.mapIndexed(transform: (index: Int, Float) -> R): List<R> {\n    return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R> DoubleArray.mapIndexed(transform: (index: Int, Double) -> R): List<R> {\n    return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the
transform applied to the element.\n */\npublic inline fun <R> BooleanArray.mapIndexed(transform: (index: Int, Boolean) -> R): List<R> {\n    return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R> CharArray.mapIndexed(transform: (index: Int, Char) -> R): List<R> {\n    return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline
fun <T, R : Any> Array<out T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): List<R> {\n    return mapIndexedNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends only the non-null results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Array<out

T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {\n forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Array<out T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>> ByteArray.mapIndexedTo(destination: C, transform: (index: Int, Byte) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>> ShortArray.mapIndexedTo(destination: C, transform: (index: Int, Short) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>> IntArray.mapIndexedTo(destination: C, transform: (index: Int, Int) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>> LongArray.mapIndexedTo(destination: C, transform: (index: Int, Long) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>> FloatArray.mapIndexedTo(destination: C, transform: (index: Int, Float) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>> DoubleArray.mapIndexedTo(destination: C, transform: (index: Int, Double) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>> BooleanArray.mapIndexedTo(destination: C, transform: (index: Int, Boolean) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>> CharArray.mapIndexedTo(destination: C, transform: (index: Int, Char) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return

```
destination\n}\n\n/**\n * Returns a list containing only the non-null results
 of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample
samples.collections.Collections.Transformations.mapNotNull\n */\npublic inline fun <T, R : Any> Array<out
T>.mapNotNull(transform: (T) -> R?): List<R> {\n    return mapNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n
* Applies the given [transform] function to each element in the original array\n * and appends only the non-null
results to the given [destination].\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Array<out
T>.mapNotNullTo(destination: C, transform: (T) -> R?): C {\n    forEach { element -> transform(element)?.let {
destination.add(it) } }\n    return destination\n}\n\n/**\n * Applies the given [transform] function to each element of
the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <T, R, C :
MutableCollection<in R>> Array<out T>.mapTo(destination: C, transform: (T) -> R): C {\n    for (item in this)\n
        destination.add(transform(item))\n    return destination\n}\n\n/**\n * Applies the given [transform] function to
each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R,
C : MutableCollection<in R>> ByteArray.mapTo(destination: C, transform: (Byte) -> R): C {\n    for (item in this)\n
      destination.add(transform(item))\n    return destination\n}\n\n/**\n * Applies the given [transform] function to
each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R,
C : MutableCollection<in R>> ShortArray.mapTo(destination: C, transform: (Short) -> R): C {\n    for (item in
this)\n        destination.add(transform(item))\n    return destination\n}\n\n/**\n * Applies the given [transform]
function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic
inline fun <R, C : MutableCollection<in R>> IntArray.mapTo(destination:
 C, transform: (Int) -> R): C {\n    for (item in this)\n        destination.add(transform(item))\n    return
destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and
appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>>
LongArray.mapTo(destination: C, transform: (Long) -> R): C {\n    for (item in this)\n
destination.add(transform(item))\n    return destination\n}\n\n/**\n * Applies the given [transform] function to each
element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C :
MutableCollection<in R>> FloatArray.mapTo(destination: C, transform: (Float) -> R): C {\n    for (item in this)\n
  destination.add(transform(item))\n    return destination\n}\n\n/**\n * Applies the given [transform] function to
each element of the original array\n * and appends the results to the given [destination].\n */\npublic
 inline fun <R, C : MutableCollection<in R>> DoubleArray.mapTo(destination: C, transform: (Double) -> R): C {\n
  for (item in this)\n        destination.add(transform(item))\n    return destination\n}\n\n/**\n * Applies the given
[transform] function to each element of the original array\n * and appends the results to the given [destination].\n
*/\npublic inline fun <R, C : MutableCollection<in R>> BooleanArray.mapTo(destination: C, transform: (Boolean)
-> R): C {\n    for (item in this)\n        destination.add(transform(item))\n    return destination\n}\n\n/**\n * Applies
the given [transform] function to each element of the original array\n * and appends the results to the given
[destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> CharArray.mapTo(destination: C,
transform: (Char) -> R): C {\n    for (item in this)\n        destination.add(transform(item))\n    return
destination\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original
 array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun <T>
Array<out T>.withIndex(): Iterable<IndexedValue<T>> {\n    return IndexingIterable { iterator() }\n}\n\n/**\n *
Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the
index of that element and the element itself.\n */\npublic fun ByteArray.withIndex():
Iterable<IndexedValue<Byte>> {\n    return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable]
that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the
element itself.\n */\npublic fun ShortArray.withIndex(): Iterable<IndexedValue<Short>> {\n    return
IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n
* into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun
IntArray.withIndex():
```

Iterable<IndexedValue<Int>> {\n    return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun LongArray.withIndex(): Iterable<IndexedValue<Long>> {\n    return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun FloatArray.withIndex(): Iterable<IndexedValue<Float>> {\n    return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun DoubleArray.withIndex(): Iterable<IndexedValue<Double>> {\n    return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps
each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun BooleanArray.withIndex(): Iterable<IndexedValue<Boolean>> {\n    return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun CharArray.withIndex(): Iterable<IndexedValue<Char>> {\n    return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * Among equal elements of the given array, only the first one will be present in the resulting list.\n * The elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun <T> Array<out T>.distinct(): List<T> {\n    return this.toMutableSet().toList()\n}\n\n/**\n
* Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun ByteArray.distinct(): List<Byte> {\n    return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun ShortArray.distinct(): List<Short> {\n    return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n
*/\npublic fun IntArray.distinct(): List<Int> {\n    return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun LongArray.distinct(): List<Long> {\n    return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun FloatArray.distinct(): List<Float> {\n    return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were
in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun DoubleArray.distinct(): List<Double> {\n    return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun BooleanArray.distinct(): List<Boolean> {\n    return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun CharArray.distinct(): List<Char> {\n    return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing

only elements from
the given array\n * having distinct keys returned by the given [selector] function.\n * \n * Among elements of the given array with equal keys, only the first one will be present in the resulting list.\n * The elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <T, K> Array<out T>.distinctBy(selector: (T) -> K): List<T> {\n val set = HashSet<K>()\n val list = ArrayList<T>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic
inline fun <K> ByteArray.distinctBy(selector: (Byte) -> K): List<Byte> {\n val set = HashSet<K>()\n val list = ArrayList<Byte>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n
return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <K> ShortArray.distinctBy(selector: (Short) -> K): List<Short> {\n val set = HashSet<K>()\n val list = ArrayList<Short>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n
return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned by the given
[selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <K> IntArray.distinctBy(selector: (Int) -> K): List<Int> {\n val set = HashSet<K>()\n val list = ArrayList<Int>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <K> LongArray.distinctBy(selector: (Long) -> K): List<Long> {\n val set = HashSet<K>()\n val list = ArrayList<Long>()\n for (e in this) {\n val key
= selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <K> FloatArray.distinctBy(selector: (Float) -> K): List<Float> {\n val set = HashSet<K>()\n val list = ArrayList<Float>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n
return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n
*/\npublic inline fun <K> DoubleArray.distinctBy(selector: (Double) -> K): List<Double> {\n val set = HashSet<K>()\n val list = ArrayList<Double>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <K> BooleanArray.distinctBy(selector: (Boolean) -> K): List<Boolean> {\n val set = HashSet<K>()\n val list = ArrayList<Boolean>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n

}\n    return list\n}\n\n/**\n * Returns a list containing only elements from the
given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <K> CharArray.distinctBy(selector: (Char) -> K): List<Char> {\n    val set = HashSet<K>()\n    val list = ArrayList<Char>()\n    for (e in this) {\n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n    }\n    return list\n}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun <T> Array<out T>.intersect(other: Iterable<T>): Set<T> {\n    val set = this.toMutableSet()\n    set.retainAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun ByteArray.intersect(other: Iterable<Byte>): Set<Byte> {\n    val set = this.toMutableSet()\n    set.retainAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun ShortArray.intersect(other: Iterable<Short>): Set<Short> {\n    val set = this.toMutableSet()\n    set.retainAll(other)\n    return set\n}\n\n/**\n *
Returns a set containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun IntArray.intersect(other: Iterable<Int>): Set<Int> {\n    val set = this.toMutableSet()\n    set.retainAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun LongArray.intersect(other: Iterable<Long>): Set<Long> {\n    val set = this.toMutableSet()\n    set.retainAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all elements that are
contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun FloatArray.intersect(other: Iterable<Float>): Set<Float> {\n    val set = this.toMutableSet()\n    set.retainAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun DoubleArray.intersect(other: Iterable<Double>): Set<Double> {\n    val set = this.toMutableSet()\n    set.retainAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the
specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun BooleanArray.intersect(other: Iterable<Boolean>): Set<Boolean> {\n    val set = this.toMutableSet()\n    set.retainAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun CharArray.intersect(other: Iterable<Char>): Set<Char> {\n    val set = this.toMutableSet()\n    set.retainAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n
* \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun <T> Array<out T>.subtract(other: Iterable<T>): Set<T> {\n    val set = this.toMutableSet()\n    set.removeAll(other)\n

```
return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun ByteArray.subtract(other: Iterable<Byte>): Set<Byte> {\n    val set = this.toMutableSet()\n    set.removeAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun ShortArray.subtract(other: Iterable<Short>): Set<Short> {\n    val set = this.toMutableSet()\n    set.removeAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun IntArray.subtract(other: Iterable<Int>): Set<Int> {\n    val set = this.toMutableSet()\n    set.removeAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun LongArray.subtract(other: Iterable<Long>): Set<Long> {\n    val set = this.toMutableSet()\n    set.removeAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun FloatArray.subtract(other: Iterable<Float>): Set<Float> {\n    val set = this.toMutableSet()\n    set.removeAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun DoubleArray.subtract(other: Iterable<Double>): Set<Double> {\n    val set = this.toMutableSet()\n    set.removeAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun BooleanArray.subtract(other: Iterable<Boolean>): Set<Boolean> {\n    val set = this.toMutableSet()\n    set.removeAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun CharArray.subtract(other: Iterable<Char>): Set<Char> {\n    val set = this.toMutableSet()\n    set.removeAll(other)\n    return set\n}\n\n/**\n * Returns a new [MutableSet] containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun <T> Array<out T>.toMutableSet(): MutableSet<T> {\n    return toCollection(LinkedHashSet<T>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet] containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun ByteArray.toMutableSet(): MutableSet<Byte> {\n    return toCollection(LinkedHashSet<Byte>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet] containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun ShortArray.toMutableSet(): MutableSet<Short> {\n    return toCollection(LinkedHashSet<Short>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet] containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun IntArray.toMutableSet(): MutableSet<Int> {\n    return toCollection(LinkedHashSet<Int>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet] containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun LongArray.toMutableSet(): MutableSet<Long> {\n    return toCollection(LinkedHashSet<Long>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet] containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun FloatArray.toMutableSet(): MutableSet<Float> {\n    return toCollection(LinkedHashSet<Float>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet] containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun DoubleArray.toMutableSet(): MutableSet<Double> {\n    return
```

toCollection(LinkedHashSet<Double>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet] containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun BooleanArray.toMutableSet(): MutableSet<Boolean> {\n return toCollection(LinkedHashSet<Boolean>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet] containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun CharArray.toMutableSet(): MutableSet<Char> {\n return toCollection(LinkedHashSet<Char>(mapCapacity(size.coerceAtMost(128))))\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun <T> Array<out T>.union(other: Iterable<T>): Set<T> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in
both collections use [intersect].\n */\npublic infix fun ByteArray.union(other: Iterable<Byte>): Set<Byte> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun ShortArray.union(other: Iterable<Short>): Set<Short> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in
the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun IntArray.union(other: Iterable<Int>): Set<Int> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun LongArray.union(other: Iterable<Long>): Set<Long> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original
array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun FloatArray.union(other: Iterable<Float>): Set<Float> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun DoubleArray.union(other: Iterable<Double>): Set<Double> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/**\n * Returns a set containing all distinct
elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun BooleanArray.union(other: Iterable<Boolean>): Set<Boolean> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those

elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun CharArray.union(other: Iterable<Char>): Set<Char> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun <T> Array<out T>.all(predicate: (T) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun ByteArray.all(predicate: (Byte) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun ShortArray.all(predicate: (Short) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun IntArray.all(predicate: (Int) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun LongArray.all(predicate: (Long) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun FloatArray.all(predicate: (Float) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun DoubleArray.all(predicate: (Double) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun BooleanArray.all(predicate: (Boolean) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun CharArray.all(predicate: (Char) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun <T> Array<out T>.any(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun ByteArray.any(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun ShortArray.any(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun IntArray.any(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun LongArray.any(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun FloatArray.any(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun DoubleArray.any(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun BooleanArray.any(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun CharArray.any(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun <T> Array<out T>.any(predicate: (T) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return

false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun ByteArray.any(predicate: (Byte) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun ShortArray.any(predicate: (Short) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun IntArray.any(predicate: (Int) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun LongArray.any(predicate: (Long) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun FloatArray.any(predicate: (Float) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun DoubleArray.any(predicate: (Double) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun BooleanArray.any(predicate:
(Boolean) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun CharArray.any(predicate: (Char) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.count(): Int {\n return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.count(): Int {\n return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.count(): Int {\n return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.count(): Int {\n return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.count(): Int {\n return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.count(): Int {\n return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.count(): Int {\n return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.count(): Int {\n return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.count(): Int {\n return size\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun <T> Array<out T>.count(predicate: (T) -> Boolean): Int
{\n var count = 0\n for (element in this) if (predicate(element)) ++count\n return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun ByteArray.count(predicate: (Byte) -> Boolean): Int {\n var count = 0\n for (element in this) if (predicate(element)) ++count\n return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun ShortArray.count(predicate: (Short) -> Boolean): Int {\n var count = 0\n for (element in this) if (predicate(element)) ++count\n return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun IntArray.count(predicate: (Int) -> Boolean): Int {\n var count = 0\n for (element in this) if (predicate(element)) ++count\n return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun LongArray.count(predicate: (Long) -> Boolean): Int

{\n var count = 0\n for (element in this) if (predicate(element)) ++count\n return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun FloatArray.count(predicate: (Float) -> Boolean): Int {\n var count = 0\n for (element in this) if (predicate(element)) ++count\n return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun DoubleArray.count(predicate: (Double) -> Boolean): Int {\n var count = 0\n for (element in this) if (predicate(element)) ++count\n return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun BooleanArray.count(predicate: (Boolean) -> Boolean): Int {\n var count = 0\n for (element in this) if (predicate(element)) ++count\n return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun CharArray.count(predicate: (Char) -> Boolean): Int {\n var count = 0\n for (element in this) if (predicate(element)) ++count\n return count\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n */\npublic inline fun <T, R> Array<out T>.fold(initial: R, operation: (acc: R, T) -> R): R {\n var accumulator = initial\n for (element in this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n */\npublic inline fun <R> ByteArray.fold(initial: R, operation: (acc: R, Byte) -> R): R {\n var accumulator = initial\n for (element in this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n */\npublic inline fun <R> ShortArray.fold(initial: R, operation: (acc: R, Short) -> R): R {\n var accumulator = initial\n for (element in this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n */\npublic inline fun <R> IntArray.fold(initial: R, operation: (acc: R, Int) -> R): R {\n var accumulator = initial\n for (element in this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n */\npublic inline fun <R> LongArray.fold(initial: R, operation: (acc: R, Long) -> R): R {\n var accumulator = initial\n for (element in this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n */\npublic inline fun <R> FloatArray.fold(initial: R, operation: (acc: R, Float) -> R): R {\n var accumulator = initial\n for (element in this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n */\npublic inline fun <R> DoubleArray.fold(initial: R, operation: (acc: R, Double) -> R): R {\n var accumulator = initial\n for (element in this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns

the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n */\npublic inline fun <R> BooleanArray.fold(initial: R, operation: (acc: R, Boolean) -> R): R {\n var accumulator = initial\n for (element in this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n */\npublic inline fun <R> CharArray.fold(initial: R, operation: (acc: R, Char) -> R): R {\n var accumulator = initial\n for (element in this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <T, R> Array<out T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> ByteArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Byte) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns the specified [initial] value if the\n array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> ShortArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> IntArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Int) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> LongArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Long) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each\n element with its index in the original array.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> FloatArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and

each element with its index in the original array.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic
inline fun <R> DoubleArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> BooleanArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value
starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> CharArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates
the next accumulator value.\n */\npublic inline fun <T, R> Array<out T>.foldRight(initial: R, operation: (T, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> ByteArray.foldRight(initial: R, operation: (Byte, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value
and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> ShortArray.foldRight(initial: R, operation: (Short, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> IntArray.foldRight(initial: R, operation:
(Int, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> LongArray.foldRight(initial: R, operation: (Long, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n *

Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> FloatArray.foldRight(initial: R, operation: (Float, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> DoubleArray.foldRight(initial: R, operation: (Double, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> BooleanArray.foldRight(initial: R, operation: (Boolean, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> CharArray.foldRight(initial: R, operation: (Char, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <T, R> Array<out T>.foldRightIndexed(initial: R, operation: (index: Int, T, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> ByteArray.foldRightIndexed(initial: R, operation: (index: Int, Byte, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> ShortArray.foldRightIndexed(initial: R, operation: (index: Int, Short, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> IntArray.foldRightIndexed(initial: R, operation: (index: Int, Int, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return

accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> LongArray.foldRightIndexed(initial: R, operation: (index: Int, Long, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> FloatArray.foldRightIndexed(initial: R, operation: (index: Int, Float, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> DoubleArray.foldRightIndexed(initial: R, operation: (index: Int, Double, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value,
and calculates the next accumulator value.\n */\npublic inline fun <R> BooleanArray.foldRightIndexed(initial: R, operation: (index: Int, Boolean, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> CharArray.foldRightIndexed(initial: R, operation: (index: Int, Char, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun <T> Array<out T>.forEach(action: (T) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun ByteArray.forEach(action: (Byte) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun ShortArray.forEach(action: (Short) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun IntArray.forEach(action: (Int) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun LongArray.forEach(action: (Long) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun FloatArray.forEach(action: (Float) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun DoubleArray.forEach(action: (Double) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun BooleanArray.forEach(action: (Boolean) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun CharArray.forEach(action: (Char) -> Unit):

Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\npublic inline fun <T> Array<out T>.forEachIndexed(action: (index: Int, T) -> Unit): Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\npublic inline fun ByteArray.forEachIndexed(action: (index: Int, Byte) -> Unit): Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\npublic inline fun ShortArray.forEachIndexed(action: (index: Int, Short) -> Unit): Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n
* @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\npublic inline fun IntArray.forEachIndexed(action: (index: Int, Int) -> Unit): Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\npublic inline fun LongArray.forEachIndexed(action: (index: Int, Long) -> Unit): Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\npublic inline fun FloatArray.forEachIndexed(action: (index: Int, Float) -> Unit):
Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\npublic inline fun DoubleArray.forEachIndexed(action: (index: Int, Double) -> Unit): Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\npublic inline fun BooleanArray.forEachIndexed(action: (index: Int, Boolean) -> Unit): Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function
that takes the index of an element and the element itself\n * and performs the action on the element.\n */\npublic inline fun CharArray.forEachIndexed(action: (index: Int, Char) -> Unit): Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n@Deprecated(\"Use maxOrNull instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.1\")\npublic fun Array<out Double>.max(): Double? {\n return maxOrNull()\n}\n\n@Deprecated(\"Use maxOrNull instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.1\")\npublic fun Array<out Float>.max(): Float? {\n return maxOrNull()\n}\n\n@Deprecated(\"Use maxOrNull instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun <T : Comparable<T>>
Array<out T>.max(): T? {\n return maxOrNull()\n}\n\n@Deprecated(\"Use maxOrNull instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun ByteArray.max(): Byte? {\n return maxOrNull()\n}\n\n@Deprecated(\"Use maxOrNull instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun ShortArray.max(): Short? {\n return maxOrNull()\n}\n\n@Deprecated(\"Use maxOrNull instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\",

hiddenSince = \"1.6\")\npublic fun IntArray.max(): Int? {\n    return maxOrNull()\n}\n\n@Deprecated(\"Use maxOrNull instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun LongArray.max(): Long? {\n    return maxOrNull()\n}\n\n@Deprecated(\"Use maxOrNull instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun FloatArray.max(): Float? {\n    return maxOrNull()\n}\n\n@Deprecated(\"Use maxOrNull instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun DoubleArray.max(): Double? {\n    return maxOrNull()\n}\n\n@Deprecated(\"Use maxOrNull instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun CharArray.max(): Char? {\n    return maxOrNull()\n}\n\n@Deprecated(\"Use maxByOrNull instead.\", ReplaceWith(\"this.maxByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <T, R : Comparable<R>> Array<out T>.maxBy(selector: (T) -> R): T? {\n    return maxByOrNull(selector)\n}\n\n@Deprecated(\"Use maxByOrNull instead.\", ReplaceWith(\"this.maxByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>> ByteArray.maxBy(selector: (Byte) -> R): Byte? {\n    return maxByOrNull(selector)\n}\n\n@Deprecated(\"Use maxByOrNull instead.\", ReplaceWith(\"this.maxByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>> ShortArray.maxBy(selector: (Short) -> R): Short? {\n    return maxByOrNull(selector)\n}\n\n@Deprecated(\"Use maxByOrNull instead.\", ReplaceWith(\"this.maxByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>> IntArray.maxBy(selector: (Int) -> R): Int? {\n    return maxByOrNull(selector)\n}\n\n@Deprecated(\"Use maxByOrNull instead.\", ReplaceWith(\"this.maxByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>> LongArray.maxBy(selector: (Long) -> R): Long? {\n    return maxByOrNull(selector)\n}\n\n@Deprecated(\"Use maxByOrNull instead.\", ReplaceWith(\"this.maxByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>> FloatArray.maxBy(selector: (Float) -> R): Float? {\n    return maxByOrNull(selector)\n}\n\n@Deprecated(\"Use maxByOrNull instead.\", ReplaceWith(\"this.maxByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>> DoubleArray.maxBy(selector: (Double) -> R): Double? {\n    return maxByOrNull(selector)\n}\n\n@Deprecated(\"Use maxByOrNull instead.\", ReplaceWith(\"this.maxByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>> BooleanArray.maxBy(selector: (Boolean) -> R): Boolean? {\n    return maxByOrNull(selector)\n}\n\n@Deprecated(\"Use maxByOrNull instead.\", ReplaceWith(\"this.maxByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>> CharArray.maxBy(selector: (Char) -> R): Char? {\n    return maxByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <T, R : Comparable<R>> Array<out T>.maxByOrNull(selector: (T) -> R): T? {\n    if (isEmpty()) return null\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given

function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R : Comparable<R>> ByteArray.maxByOrNull(selector: (Byte) -> R): Byte? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R : Comparable<R>> ShortArray.maxByOrNull(selector: (Short) -> R): Short? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R : Comparable<R>> IntArray.maxByOrNull(selector: (Int) -> R): Int? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R : Comparable<R>> LongArray.maxByOrNull(selector: (Long) -> R): Long? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R : Comparable<R>> FloatArray.maxByOrNull(selector: (Float) -> R): Float? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R : Comparable<R>> DoubleArray.maxByOrNull(selector: (Double) -> R): Double? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R : Comparable<R>> BooleanArray.maxByOrNull(selector: (Boolean) -> R): Boolean? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R : Comparable<R>> CharArray.maxByOrNull(selector: (Char) -> R): Char? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue =

selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException
 if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.maxOf(selector: (T) -> Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.maxOf(selector: (Byte)
 -> Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.maxOf(selector: (Short) -> Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n
 * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.maxOf(selector: (Int) -> Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException
 if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.maxOf(selector: (Long) -> Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOf(selector: (Float) -> Double): Double
 {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return

maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.maxOf(selector: (Double) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the
largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.maxOf(selector: (Boolean) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the
array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.maxOf(selector: (Char) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.maxOf(selector: (T) -> Float): Float {\n
if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.maxOf(selector: (Byte) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value
among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.maxOf(selector: (Short) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is

`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.maxOf(selector: (Int) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.maxOf(selector: (Long) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOf(selector: (Float) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.maxOf(selector: (Double) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.maxOf(selector: (Boolean) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.maxOf(selector: (Char) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Array<out T>.maxOf(selector: (T) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n

```
maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n
 * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> ByteArray.maxOf(selector: (Byte) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> ShortArray.maxOf(selector: (Short) -> R): R {\n    if (isEmpty())
 throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> IntArray.maxOf(selector: (Int) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n
 * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> LongArray.maxOf(selector: (Long) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> FloatArray.maxOf(selector:
 (Float) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> DoubleArray.maxOf(selector: (Double) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest
 value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> BooleanArray.maxOf(selector: (Boolean) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var
```

maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> CharArray.maxOf(selector: (Char) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.maxOfOrNull(selector: (T) -> Double): Double? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.maxOfOrNull(selector: (Byte) -> Double): Double? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.maxOfOrNull(selector: (Short) -> Double): Double? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.maxOfOrNull(selector: (Int) -> Double): Double? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.maxOfOrNull(selector: (Long) -> Double): Double? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOfOrNull(selector: (Float) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun DoubleArray.maxOfOrNull(selector: (Double) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.maxOfOrNull(selector: (Boolean) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n
* Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.maxOfOrNull(selector: (Char) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <T> Array<out T>.maxOfOrNull(selector: (T) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.maxOfOrNull(selector: (Byte) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.maxOfOrNull(selector: (Short) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If

any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.maxOfOrNull(selector: (Int) ->
Float): Float? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n
val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns
the largest value among all values produced by [selector] function\n * applied to each element in the array or `null`
if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.maxOfOrNull(selector: (Long)
-> Float): Float? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n
val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns
the largest value among all values produced by [selector] function\n * applied to each element in the array or `null`
if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOfOrNull(selector: (Float) -
> Float): Float? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n
val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns
the largest value among all values produced by
[selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.maxOfOrNull(selector:
(Double) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function
is `NaN`, the returned result is `NaN`.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun BooleanArray.maxOfOrNull(selector: (Boolean) -> Float): Float? {\n if (isEmpty()) return null\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue =
maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.maxOfOrNull(selector: (Char) ->
Float): Float? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n
val v = selector(this[i])\n maxValue
= maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values
produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Array<out
T>.maxOfOrNull(selector: (T) -> R): R? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for
(i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n
return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n *
applied to each element in the array or `null` if there are no elements.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R : Comparable<R>> ByteArray.maxOfOrNull(selector: (Byte) -> R): R? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
ShortArray.maxOfOrNull(selector: (Short) -> R): R? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
IntArray.maxOfOrNull(selector: (Int) -> R): R? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
LongArray.maxOfOrNull(selector:
(Long) -> R): R? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
FloatArray.maxOfOrNull(selector: (Float) -> R): R? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n
* applied to each element in the array or `null` if there are no elements.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
DoubleArray.maxOfOrNull(selector: (Double) -> R): R? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
BooleanArray.maxOfOrNull(selector: (Boolean) -> R): R? {\n if (isEmpty())
return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> CharArray.maxOfOrNull(selector: (Char) -> R): R? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied
to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Array<out T>.maxOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R> ByteArray.maxOfWith(comparator: Comparator<in R>, selector: (Byte) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.maxOfWith(comparator: Comparator<in R>, selector: (Short) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex)
{\n val v = selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.maxOfWith(comparator: Comparator<in R>, selector: (Int) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n
* among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> LongArray.maxOfWith(comparator: Comparator<in R>, selector: (Long) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic

inline fun <R> FloatArray.maxOfWith(comparator: Comparator<in R>, selector: (Float) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.maxOfWith(comparator: Comparator<in R>, selector: (Double) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.maxOfWith(comparator: Comparator<in R>, selector: (Boolean) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharArray.maxOfWith(comparator: Comparator<in R>, selector: (Char) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <T, R> Array<out T>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ByteArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Byte) -> R): R? {\n if (isEmpty()) return null\n var maxValue
= selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Short) -> R): R? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n

```
 * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Int) -> R): R? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
 inline fun <R> LongArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Long) -> R): R? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> FloatArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Float) -> R): R? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(maxValue,
 v) < 0) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Double) -> R): R? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or
 `null` if there are no elements.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Boolean) -> R): R? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharArray.maxOfWithOrNull(comparator: Comparator<in R>,
 selector: (Char) -> R): R? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.4\")\npublic fun Array<out Double>.maxOrNull(): Double? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        max = maxOf(max, e)\n    }\n    return max\n}\n\n/**\n * Returns the largest element or `null`
```

if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.4\")\npublic fun Array<out Float>.maxOrNull(): Float? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        max = maxOf(max, e)\n    }\n    return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun <T : Comparable<T>> Array<out T>.maxOrNull(): T? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun ByteArray.maxOrNull(): Byte? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun ShortArray.maxOrNull(): Short? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun IntArray.maxOrNull(): Int? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun LongArray.maxOrNull(): Long? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.4\")\npublic fun FloatArray.maxOrNull(): Float? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        max = maxOf(max, e)\n    }\n    return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.4\")\npublic fun DoubleArray.maxOrNull(): Double? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        max = maxOf(max, e)\n    }\n    return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun CharArray.maxOrNull(): Char? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (max < e) max = e\n    }\n    return max\n}\n\n@Deprecated(\"Use maxWithOrNull instead.\", ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun <T> Array<out T>.maxWith(comparator: Comparator<in T>): T? {\n    return maxWithOrNull(comparator)\n}\n\n@Deprecated(\"Use maxWithOrNull instead.\", ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun ByteArray.maxWith(comparator: Comparator<in Byte>): Byte? {\n    return maxWithOrNull(comparator)\n}\n\n@Deprecated(\"Use maxWithOrNull instead.\", ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun ShortArray.maxWith(comparator: Comparator<in Short>): Short? {\n    return maxWithOrNull(comparator)\n}\n\n@Deprecated(\"Use maxWithOrNull instead.\", ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun IntArray.maxWith(comparator: Comparator<in Int>): Int? {\n    return maxWithOrNull(comparator)\n}\n\n@Deprecated(\"Use maxWithOrNull instead.\", ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun LongArray.maxWith(comparator: Comparator<in Long>): Long? {\n    return maxWithOrNull(comparator)\n}\n\n@Deprecated(\"Use maxWithOrNull instead.\", ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun FloatArray.maxWith(comparator: Comparator<in Float>): Float? {\n    return maxWithOrNull(comparator)\n}\n\n@Deprecated(\"Use maxWithOrNull instead.\", ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun DoubleArray.maxWith(comparator: Comparator<in Double>): Double? {\n    return maxWithOrNull(comparator)\n}\n\n@Deprecated(\"Use maxWithOrNull instead.\",

ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun BooleanArray.maxWith(comparator: Comparator<in Boolean>): Boolean? {\n return maxWithOrNull(comparator)\n}\n\n@Deprecated(\"Use maxWithOrNull instead.\", ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun CharArray.maxWith(comparator: Comparator<in Char>): Char? {\n return maxWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun <T> Array<out T>.maxWithOrNull(comparator: Comparator<in T>): T? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun ByteArray.maxWithOrNull(comparator: Comparator<in Byte>): Byte? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun ShortArray.maxWithOrNull(comparator: Comparator<in Short>): Short? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun IntArray.maxWithOrNull(comparator: Comparator<in Int>): Int? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun LongArray.maxWithOrNull(comparator: Comparator<in Long>): Long? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun FloatArray.maxWithOrNull(comparator: Comparator<in Float>): Float? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun DoubleArray.maxWithOrNull(comparator: Comparator<in Double>): Double? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun BooleanArray.maxWithOrNull(comparator: Comparator<in Boolean>): Boolean? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun CharArray.maxWithOrNull(comparator: Comparator<in Char>): Char? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n@Deprecated(\"Use minOrNull instead.\", ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.1\")\npublic fun Array<out Double>.min(): Double? {\n return minOrNull()\n}\n\n@Deprecated(\"Use minOrNull instead.\", ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.1\")\npublic fun Array<out Float>.min(): Float? {\n return minOrNull()\n}\n\n@Deprecated(\"Use minOrNull instead.\",

ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince
= \"1.6\")\npublic fun <T : Comparable<T>> Array<out T>.min(): T? {\n    return minOrNull()\n}\n\n@Deprecated(\"Use minOrNull instead.\", ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun ByteArray.min(): Byte? {\n    return minOrNull()\n}\n\n@Deprecated(\"Use minOrNull instead.\", ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun ShortArray.min(): Short? {\n    return minOrNull()\n}\n\n@Deprecated(\"Use minOrNull instead.\", ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun IntArray.min(): Int? {\n    return minOrNull()\n}\n\n@Deprecated(\"Use minOrNull instead.\", ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun LongArray.min():
Long? {\n    return minOrNull()\n}\n\n@Deprecated(\"Use minOrNull instead.\", ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun FloatArray.min(): Float? {\n    return minOrNull()\n}\n\n@Deprecated(\"Use minOrNull instead.\", ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun DoubleArray.min(): Double? {\n    return minOrNull()\n}\n\n@Deprecated(\"Use minOrNull instead.\", ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun CharArray.min(): Char? {\n    return minOrNull()\n}\n\n@Deprecated(\"Use minByOrNull instead.\", ReplaceWith(\"this.minByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <T, R : Comparable<R>> Array<out T>.minBy(selector:
(T) -> R): T? {\n    return minByOrNull(selector)\n}\n\n@Deprecated(\"Use minByOrNull instead.\", ReplaceWith(\"this.minByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>> ByteArray.minBy(selector: (Byte) -> R): Byte? {\n    return minByOrNull(selector)\n}\n\n@Deprecated(\"Use minByOrNull instead.\", ReplaceWith(\"this.minByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>> ShortArray.minBy(selector: (Short) -> R): Short? {\n    return minByOrNull(selector)\n}\n\n@Deprecated(\"Use minByOrNull instead.\", ReplaceWith(\"this.minByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>> IntArray.minBy(selector: (Int) -> R): Int? {\n    return minByOrNull(selector)\n}\n\n@Deprecated(\"Use
minByOrNull instead.\", ReplaceWith(\"this.minByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>> LongArray.minBy(selector: (Long) -> R): Long? {\n    return minByOrNull(selector)\n}\n\n@Deprecated(\"Use minByOrNull instead.\", ReplaceWith(\"this.minByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>> FloatArray.minBy(selector: (Float) -> R): Float? {\n    return minByOrNull(selector)\n}\n\n@Deprecated(\"Use minByOrNull instead.\", ReplaceWith(\"this.minByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>> DoubleArray.minBy(selector: (Double) -> R): Double? {\n    return minByOrNull(selector)\n}\n\n@Deprecated(\"Use minByOrNull instead.\", ReplaceWith(\"this.minByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince
= \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>> BooleanArray.minBy(selector: (Boolean) -> R): Boolean? {\n    return minByOrNull(selector)\n}\n\n@Deprecated(\"Use minByOrNull instead.\",

ReplaceWith(\"this.minByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>> CharArray.minBy(selector: (Char) -> R): Char? {\n return minByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <T, R : Comparable<R>> Array<out T>.minByOrNull(selector: (T) -> R): T? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R : Comparable<R>> ByteArray.minByOrNull(selector: (Byte) -> R): Byte? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the
given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R : Comparable<R>> ShortArray.minByOrNull(selector: (Short) -> R): Short? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R : Comparable<R>> IntArray.minByOrNull(selector: (Int) -> R): Int? {\n if (isEmpty()) return null\n var minElem = this[0]\n
val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R : Comparable<R>> LongArray.minByOrNull(selector: (Long) -> R): Long? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return
minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R : Comparable<R>> FloatArray.minByOrNull(selector: (Float) -> R): Float? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R : Comparable<R>> DoubleArray.minByOrNull(selector:
(Double) -> R): Double? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value

of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R : Comparable<R>> BooleanArray.minByOrNull(selector: (Boolean) -> R): Boolean? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R : Comparable<R>> CharArray.minByOrNull(selector: (Char) -> R): Char? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.minOf(selector: (T) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.minOf(selector: (Byte) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.minOf(selector: (Short) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.minOf(selector: (Int) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.minOf(selector: (Long) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for

(i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.minOf(selector: (Float) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.minOf(selector: (Double) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.minOf(selector: (Boolean) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.minOf(selector: (Char) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.minOf(selector: (T) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.minOf(selector: (Byte) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.minOf(selector: (Short) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
 * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.minOf(selector: (Int) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.minOf(selector: (Long) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.minOf(selector: (Float) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n
 * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.minOf(selector: (Double) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
 NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.minOf(selector: (Boolean) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.minOf(selector:

(Char) -> Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Array<out T>.minOf(selector: (T) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> ByteArray.minOf(selector: (Byte) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> ShortArray.minOf(selector: (Short) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> IntArray.minOf(selector: (Int) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> LongArray.minOf(selector: (Long) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> FloatArray.minOf(selector: (Float) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>

DoubleArray.minOf(selector: (Double) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n

minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> BooleanArray.minOf(selector: (Boolean) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> CharArray.minOf(selector: (Char) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.minOfOrNull(selector: (T) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.minOfOrNull(selector: (Byte) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are

no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.minOfOrNull(selector: (Short) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.minOfOrNull(selector: (Int) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function

is `NaN`, the returned result is `NaN`.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.minOfOrNull(selector: (Long) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value
among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.minOfOrNull(selector: (Float) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun DoubleArray.minOfOrNull(selector: (Double) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.minOfOrNull(selector: (Boolean) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n
val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.minOfOrNull(selector: (Char) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced
by [selector] function is `NaN`, the returned result is `NaN`.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.minOfOrNull(selector: (T) -> Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.minOfOrNull(selector: (Byte) -> Float):

Float? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.minOfOrNull(selector: (Short) -> Float): Float? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.minOfOrNull(selector: (Int) -> Float): Float? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.minOfOrNull(selector: (Long) -> Float): Float? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.minOfOrNull(selector: (Float) -> Float): Float? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.minOfOrNull(selector: (Double) -> Float): Float? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.minOfOrNull(selector: (Boolean) -> Float): Float? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.minOfOrNull(selector: (Char) ->

Float): Float? {\n    if (isEmpty()) return null\n    var minValue =
 selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n
}\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n *
applied to each element in the array or `null` if there are no elements.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Array<out
T>.minOfOrNull(selector: (T) -> R): R? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for
(i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n
return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n *
applied to each element in the array or `null` if there are no elements.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
 inline fun <R : Comparable<R>> ByteArray.minOfOrNull(selector: (Byte) -> R): R? {\n    if (isEmpty()) return
null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value
among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no
elements.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
ShortArray.minOfOrNull(selector: (Short) -> R): R? {\n    if (isEmpty()) return null\n    var minValue =
selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n
    if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the
smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if
there are no elements.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
IntArray.minOfOrNull(selector: (Int) -> R): R? {\n    if (isEmpty()) return null\n    var minValue =
selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n
minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
 inline fun <R : Comparable<R>> LongArray.minOfOrNull(selector: (Long) -> R): R? {\n    if (isEmpty()) return
null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value
among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no
elements.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
FloatArray.minOfOrNull(selector: (Float) -> R): R? {\n    if (isEmpty()) return null\n    var minValue =
selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n
minValue = v\n        }\n
    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector]
function\n * applied to each element in the array or `null` if there are no elements.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
DoubleArray.minOfOrNull(selector: (Double) -> R): R? {\n    if (isEmpty()) return null\n    var minValue =
selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n

minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
 inline fun <R : Comparable<R>> BooleanArray.minOfOrNull(selector: (Boolean) -> R): R? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> CharArray.minOfOrNull(selector: (Char) -> R): R? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest
 value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Array<out T>.minOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
 inline fun <R> ByteArray.minOfWith(comparator: Comparator<in R>, selector: (Byte) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.minOfWith(comparator: Comparator<in R>, selector: (Short) -> R): R {\n
    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.minOfWith(comparator: Comparator<in R>, selector: (Int) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(minValue, v) > 0) {\n            minValue = v\n
    }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> LongArray.minOfWith(comparator:
Comparator<in R>, selector: (Long) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var
minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException
 if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> FloatArray.minOfWith(comparator:
Comparator<in R>, selector: (Float) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var
minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.minOfWith(comparator:
 Comparator<in R>, selector: (Double) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var
minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.minOfWith(comparator:
Comparator<in R>, selector: (Boolean) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var
minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
 (comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharArray.minOfWith(comparator:
Comparator<in R>, selector: (Char) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var
minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function
 applied to each element in the array or `null` if there are no elements.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Array<out
T>.minOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n    if (isEmpty()) return null\n
var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ByteArray.minOfWithOrNull(comparator:

Comparator<in R>, selector: (Byte) -> R): R? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Short) -> R): R? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Int) -> R): R? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> LongArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Long) -> R): R? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> FloatArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Float) -> R): R? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Double) -> R): R? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according\n to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Boolean) -> R): R? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]

function applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.4\")\npublic fun Array<out Double>.minOrNull(): Double? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n min = minOf(min, e)\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.4\")\npublic fun Array<out Float>.minOrNull(): Float? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n min = minOf(min, e)\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun <T : Comparable<T>> Array<out T>.minOrNull(): T? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun ByteArray.minOrNull(): Byte? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun ShortArray.minOrNull(): Short? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun IntArray.minOrNull(): Int? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun LongArray.minOrNull(): Long? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.4\")\npublic fun FloatArray.minOrNull(): Float? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n min = minOf(min, e)\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.4\")\npublic fun DoubleArray.minOrNull(): Double? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n min = minOf(min, e)\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun CharArray.minOrNull(): Char? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n@Deprecated(\"Use minWithOrNull instead.\", ReplaceWith(\"this.minWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun <T> Array<out T>.minWith(comparator: Comparator<in T>): T? {\n return minWithOrNull(comparator)\n}\n\n@Deprecated(\"Use minWithOrNull instead.\", ReplaceWith(\"this.minWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun ByteArray.minWith(comparator: Comparator<in Byte>): Byte? {\n return minWithOrNull(comparator)\n}\n\n@Deprecated(\"Use minWithOrNull instead.\", ReplaceWith(\"this.minWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun ShortArray.minWith(comparator: Comparator<in Short>): Short? {\n return minWithOrNull(comparator)\n}\n\n@Deprecated(\"Use minWithOrNull instead.\",

ReplaceWith(\"this.minWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun IntArray.minWith(comparator: Comparator<in Int>): Int? {\n return minWithOrNull(comparator)\n}\n\n@Deprecated(\"Use minWithOrNull instead.\", ReplaceWith(\"this.minWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun LongArray.minWith(comparator: Comparator<in Long>): Long? {\n return minWithOrNull(comparator)\n}\n\n@Deprecated(\"Use minWithOrNull instead.\", ReplaceWith(\"this.minWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun FloatArray.minWith(comparator: Comparator<in Float>): Float? {\n return minWithOrNull(comparator)\n}\n\n@Deprecated(\"Use minWithOrNull instead.\", ReplaceWith(\"this.minWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun DoubleArray.minWith(comparator: Comparator<in Double>): Double? {\n return minWithOrNull(comparator)\n}\n\n@Deprecated(\"Use minWithOrNull instead.\", ReplaceWith(\"this.minWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun BooleanArray.minWith(comparator: Comparator<in Boolean>): Boolean? {\n return minWithOrNull(comparator)\n}\n\n@Deprecated(\"Use minWithOrNull instead.\", ReplaceWith(\"this.minWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun CharArray.minWith(comparator: Comparator<in Char>): Char? {\n return minWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun <T> Array<out T>.minWithOrNull(comparator: Comparator<in T>): T? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun ByteArray.minWithOrNull(comparator: Comparator<in Byte>): Byte? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun ShortArray.minWithOrNull(comparator: Comparator<in Short>): Short? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun IntArray.minWithOrNull(comparator: Comparator<in Int>): Int? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun LongArray.minWithOrNull(comparator: Comparator<in Long>): Long? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun FloatArray.minWithOrNull(comparator: Comparator<in Float>): Float? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun DoubleArray.minWithOrNull(comparator: Comparator<in Double>): Double? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min =

e\n }\n return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun BooleanArray.minWithOrNull(comparator: Comparator<in Boolean>): Boolean? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun CharArray.minWithOrNull(comparator: Comparator<in Char>): Char? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun <T> Array<out T>.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun ByteArray.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun ShortArray.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun IntArray.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun LongArray.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun FloatArray.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun DoubleArray.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun BooleanArray.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun CharArray.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun <T> Array<out T>.none(predicate: (T) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun ByteArray.none(predicate: (Byte) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun ShortArray.none(predicate: (Short) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun IntArray.none(predicate: (Int) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun LongArray.none(predicate: (Long) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun FloatArray.none(predicate: (Float) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun DoubleArray.none(predicate: (Double) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if no elements match the given

[predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun BooleanArray.none(predicate: (Boolean) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun CharArray.none(predicate: (Char) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return true\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself afterwards.\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.onEach(action: (T) -> Unit): Array<out T> {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself afterwards.\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.onEach(action: (Byte) -> Unit): ByteArray {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself afterwards.\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.onEach(action: (Short) -> Unit): ShortArray {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself afterwards.\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.onEach(action: (Int) -> Unit): IntArray {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself afterwards.\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.onEach(action: (Long) -> Unit): LongArray {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself afterwards.\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.onEach(action: (Float) -> Unit): FloatArray {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself afterwards.\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.onEach(action: (Double) -> Unit): DoubleArray {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself afterwards.\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.onEach(action: (Boolean) -> Unit): BooleanArray {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself afterwards.\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.onEach(action: (Char) -> Unit): CharArray {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.onEachIndexed(action: (index: Int, T) -> Unit): Array<out T> {\n return apply { forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.onEachIndexed(action: (index: Int, Byte) -> Unit): ByteArray {\n return apply { forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.onEachIndexed(action: (index: Int, Short) -> Unit): ShortArray {\n return apply { forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on

the element.\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.onEachIndexed(action: (index: Int, Int) -> Unit): IntArray {\n    return apply { forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.onEachIndexed(action: (index: Int, Long) -> Unit): LongArray {\n    return apply { forEachIndexed(action)
}\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.onEachIndexed(action: (index: Int, Float) -> Unit): FloatArray {\n    return apply { forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.onEachIndexed(action: (index: Int, Double) -> Unit): DoubleArray {\n    return apply { forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.onEachIndexed(action: (index: Int, Boolean) -> Unit): BooleanArray {\n    return apply { forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.onEachIndexed(action: (index: Int, Char) -> Unit): CharArray {\n    return apply { forEachIndexed(action) }\n}\n\n/**\n * Accumulates value starting with the first element and
applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun <S, T : S> Array<out T>.reduce(operation: (acc: S, T) -> S): S {\n    if (isEmpty())\n        throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n    var accumulator: S = this[0]\n    for (index in 1..lastIndex) {\n        accumulator = operation(accumulator, this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Throws
an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun ByteArray.reduce(operation: (acc: Byte, Byte) -> Byte): Byte {\n    if (isEmpty())\n        throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n    var accumulator = this[0]\n    for (index in 1..lastIndex) {\n        accumulator = operation(accumulator, this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceOrNull]
instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample

samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun ShortArray.reduce(operation: (acc: Short, Short) -> Short): Short {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun IntArray.reduce(operation: (acc: Int, Int) -> Int): Int {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun LongArray.reduce(operation: (acc: Long, Long) -> Long): Long {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun FloatArray.reduce(operation: (acc: Float,
Float) -> Float): Float {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun DoubleArray.reduce(operation: (acc: Double, Double) -> Double): Double {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun BooleanArray.reduce(operation: (acc: Boolean, Boolean) -> Boolean): Boolean {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n *

@sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun CharArray.reduce(operation: (acc: Char, Char) -> Char): Char {\n    if (isEmpty())\n        throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n    var accumulator = this[0]\n    for (index in 1..lastIndex) {\n        accumulator = operation(accumulator, this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates
 value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun <S, T : S> Array<out T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {\n    if (isEmpty())\n        throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n    var accumulator: S = this[0]\n    for (index in 1..lastIndex) {\n        accumulator = operation(index, accumulator, this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates
 value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun ByteArray.reduceIndexed(operation: (index: Int, acc: Byte, Byte) -> Byte): Byte {\n    if (isEmpty())\n        throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n    var accumulator = this[0]\n    for (index in 1..lastIndex) {\n        accumulator = operation(index, accumulator, this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value
 starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun ShortArray.reduceIndexed(operation: (index: Int, acc: Short, Short) -> Short): Short {\n    if (isEmpty())\n        throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n    var accumulator = this[0]\n    for (index in 1..lastIndex) {\n        accumulator = operation(index, accumulator, this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value
 starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun IntArray.reduceIndexed(operation: (index: Int, acc: Int, Int) -> Int): Int {\n    if (isEmpty())\n        throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n    var accumulator = this[0]\n    for (index in 1..lastIndex) {\n        accumulator = operation(index, accumulator, this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with
 the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n

* and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun LongArray.reduceIndexed(operation: (index: Int, acc: Long, Long) -> Long): Long {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the
first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun FloatArray.reduceIndexed(operation: (index: Int, acc: Float, Float) -> Float): Float {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first
element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun DoubleArray.reduceIndexed(operation: (index: Int, acc: Double, Double) -> Double): Double {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the
first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun BooleanArray.reduceIndexed(operation: (index: Int, acc: Boolean, Boolean) -> Boolean): Boolean {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting
with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun CharArray.reduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): Char {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the
first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <S, T : S> Array<out T>.reduceIndexedOrNull(operation: (index: Int, acc: S, T) -> S): S? {\n if (isEmpty())\n return null\n var accumulator: S = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return

accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun ByteArray.reduceIndexedOrNull(operation: (index: Int, acc: Byte, Byte) -> Byte): Byte? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun ShortArray.reduceIndexedOrNull(operation: (index: Int, acc: Short, Short) -> Short): Short? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun IntArray.reduceIndexedOrNull(operation:
(index: Int, acc: Int, Int) -> Int): Int? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun LongArray.reduceIndexedOrNull(operation: (index: Int, acc: Long, Long) -> Long): Long? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator
= operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun FloatArray.reduceIndexedOrNull(operation: (index: Int, acc: Float, Float) -> Float): Float? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation]
from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun DoubleArray.reduceIndexedOrNull(operation: (index: Int, acc: Double, Double) -> Double): Double? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if the array is empty.\n *

\n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun BooleanArray.reduceIndexedOrNull(operation: (index: Int, acc: Boolean, Boolean) -> Boolean): Boolean? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun CharArray.reduceIndexedOrNull(operation: (index: Int, acc: Char, Char) -> Char): Char? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S> Array<out T>.reduceOrNull(operation: (acc: S, T) -> S): S?
{\n if (isEmpty())\n return null\n var accumulator: S = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun ByteArray.reduceOrNull(operation: (acc: Byte, Byte) -> Byte): Byte? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates
value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun ShortArray.reduceOrNull(operation: (acc: Short, Short) -> Short): Short? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function
that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun IntArray.reduceOrNull(operation: (acc: Int, Int) -> Int): Int? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next

accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun LongArray.reduceOrNull(operation: (acc: Long, Long) -> Long): Long? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun FloatArray.reduceOrNull(operation: (acc: Float, Float) -> Float): Float? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex)\n {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun DoubleArray.reduceOrNull(operation: (acc: Double, Double) -> Double): Double? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to\n current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun BooleanArray.reduceOrNull(operation: (acc: Boolean, Boolean) -> Boolean): Boolean? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next\n accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun CharArray.reduceOrNull(operation: (acc: Char, Char) -> Char): Char? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun <S, T : S> Array<out T>.reduceRight(operation: (T, acc: S) -> S): S {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator: S = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null`

when its receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun ByteArray.reduceRight(operation: (Byte,
acc: Byte) -> Byte): Byte {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun ShortArray.reduceRight(operation: (Short, acc: Short) -> Short): Short {\n var index = lastIndex\n if (index < 0)
throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun IntArray.reduceRight(operation: (Int, acc: Int) -> Int): Int {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator
= get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun LongArray.reduceRight(operation: (Long, acc: Long) -> Long): Long {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--),
accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun FloatArray.reduceRight(operation: (Float, acc: Float) -> Float): Float {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates
value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator

value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun DoubleArray.reduceRight(operation: (Double, acc: Double) -> Double): Double {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun BooleanArray.reduceRight(operation: (Boolean, acc: Boolean) -> Boolean): Boolean {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun CharArray.reduceRight(operation: (Char, acc: Char) -> Char): Char {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun <S, T : S> Array<out T>.reduceRightIndexed(operation: (index: Int, T, acc: S) -> S): S {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator: S = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun ByteArray.reduceRightIndexed(operation: (index: Int, Byte, acc: Byte) -> Byte): Byte {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun ShortArray.reduceRightIndexed(operation: (index: Int, Short, acc: Short) -> Short): Short {\n var index =

lastIndex\n    if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun IntArray.reduceRightIndexed(operation: (index: Int, Int, acc: Int) -> Int): Int {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun LongArray.reduceRightIndexed(operation: (index: Int, Long, acc: Long) -> Long): Long {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun FloatArray.reduceRightIndexed(operation: (index: Int, Float, acc: Float) -> Float): Float {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun DoubleArray.reduceRightIndexed(operation: (index: Int, Double, acc: Double) -> Double): Double {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic

inline fun BooleanArray.reduceRightIndexed(operation: (index: Int, Boolean, acc: Boolean) -> Boolean): Boolean {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun CharArray.reduceRightIndexed(operation: (index: Int, Char, acc: Char) -> Char): Char {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <S, T : S> Array<out T>.reduceRightIndexedOrNull(operation: (index: Int, T, acc: S) -> S): S? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator: S = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun ByteArray.reduceRightIndexedOrNull(operation: (index: Int, Byte, acc: Byte) -> Byte): Byte? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its
index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun ShortArray.reduceRightIndexedOrNull(operation: (index: Int, Short, acc: Short) -> Short): Short? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation]
function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun IntArray.reduceRightIndexedOrNull(operation: (index: Int, Int, acc: Int) -> Int): Int? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to

left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun LongArray.reduceRightIndexedOrNull(operation: (index: Int, Long, acc: Long) -> Long): Long? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun FloatArray.reduceRightIndexedOrNull(operation: (index: Int, Float, acc: Float) -> Float): Float? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun DoubleArray.reduceRightIndexedOrNull(operation: (index: Int, Double, acc: Double) -> Double): Double? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun BooleanArray.reduceRightIndexedOrNull(operation: (index: Int, Boolean, acc: Boolean) -> Boolean): Boolean? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun CharArray.reduceRightIndexedOrNull(operation: (index: Int, Char, acc: Char) -> Char): Char? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S> Array<out T>.reduceRightOrNull(operation: (T, acc: S) -> S): S? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator: S = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--

), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function
 that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun ByteArray.reduceRightOrNull(operation: (Byte, acc: Byte) -> Byte): Byte? {\n    var index = lastIndex\n    if (index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic
 inline fun ShortArray.reduceRightOrNull(operation: (Short, acc: Short) -> Short): Short? {\n    var index = lastIndex\n    if (index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun IntArray.reduceRightOrNull(operation: (Int, acc: Int) -> Int): Int? {\n    var index = lastIndex\n    if (index < 0)
 return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun LongArray.reduceRightOrNull(operation: (Long, acc: Long) -> Long): Long? {\n    var index = lastIndex\n    if (index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting
 with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun FloatArray.reduceRightOrNull(operation: (Float, acc: Float) -> Float): Float? {\n    var index = lastIndex\n    if (index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation]
 function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun DoubleArray.reduceRightOrNull(operation: (Double, acc: Double) -> Double): Double? {\n    var index = lastIndex\n    if (index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n

accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun BooleanArray.reduceRightOrNull(operation: (Boolean, acc: Boolean) -> Boolean): Boolean? {\n    var index = lastIndex\n    if (index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun CharArray.reduceRightOrNull(operation: (Char, acc: Char) -> Char): Char? {\n    var index = lastIndex\n    if (index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\npublic inline fun <T, R> Array<out T>.runningFold(initial: R, operation: (acc: R, T) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n        accumulator = operation(accumulator, element)\n result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> ByteArray.runningFold(initial: R, operation: (acc: R, Byte) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n        accumulator = operation(accumulator, element)\n result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.runningFold(initial: R, operation: (acc: R, Short) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n        accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should

not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.runningFold(initial: R, operation: (acc: R, Int) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n        accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> LongArray.runningFold(initial: R, operation: (acc: R, Long) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n        accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> FloatArray.runningFold(initial: R, operation: (acc: R, Float) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n        accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.runningFold(initial: R, operation: (acc: R, Double) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n        accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.runningFold(initial: R, operation: (acc: R, Boolean) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n        accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to

[operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharArray.runningFold(initial: R, operation: (acc: R, Char) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (element in this) {\n accumulator = operation(accumulator, element)\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <T, R> Array<out T>.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> ByteArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Byte) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Int) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n

```
}\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting
 list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> LongArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Long) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (index in indices) {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed
 to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> FloatArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (index in indices) {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original
 array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (index in indices) {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation
 values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (index in indices) {\n        accumulator = operation(index, accumulator, this[index])\n
    result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
```

next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and the element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S> Array<out T>.runningReduce(operation: (acc: S, T) -> S): List<S> {\n if (isEmpty()) return emptyList()\n var accumulator: S = this[0]\n val result = ArrayList<S>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.runningReduce(operation: (acc: Byte, Byte) -> Byte): List<Byte> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Byte>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(accumulator,\n this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.runningReduce(operation: (acc: Short, Short) -> Short): List<Short> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Short>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive\n accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.runningReduce(operation: (acc: Int, Int) -> Int): List<Int> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Int>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that\n starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.runningReduce(operation:

(acc: Long, Long) -> Long): List<Long> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Long>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value and
 an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*/\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.runningReduce(operation: (acc: Float, Float) -> Float): List<Float> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Float>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
 */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.runningReduce(operation: (acc: Double, Double) -> Double): List<Double> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Double>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*/\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.runningReduce(operation:
 (acc: Boolean, Boolean) -> Boolean): List<Boolean> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Boolean>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*/\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.runningReduce(operation: (acc: Char, Char) -> Char): List<Char> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n
    val result = ArrayList<Char>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <S, T : S> Array<out T>.runningReduceIndexed(operation: (index: Int, acc:
 S, T) -> S): List<S> {\n    if (isEmpty()) return emptyList()\n    var accumulator: S = this[0]\n    val result = ArrayList<S>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with the first element of this

array.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.runningReduceIndexed(operation: (index: Int, acc: Byte, Byte) -> Byte): List<Byte> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Byte>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.runningReduceIndexed(operation: (index: Int, acc: Short, Short) -> Short): List<Short> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Short>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.runningReduceIndexed(operation: (index: Int, acc: Int, Int) -> Int): List<Int> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Int>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.runningReduceIndexed(operation: (index: Int, acc: Long, Long) -> Long): List<Long> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Long>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.runningReduceIndexed(operation: (index: Int, acc: Float, Float) -> Float): List<Float> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Float>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and

current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.runningReduceIndexed(operation: (index: Int, acc: Double, Double) -> Double): List<Double> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Double>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.runningReduceIndexed(operation: (index: Int, acc: Boolean, Boolean) -> Boolean): List<Boolean> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Boolean>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.runningReduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): List<Char> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Char>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <T, R> Array<out T>.scan(initial: R, operation: (acc: R, T) -> R): List<R> {\n return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to\n right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> ByteArray.scan(initial: R, operation: (acc: R, Byte) -> R): List<R> {\n return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample

samples.collections.Collections.Aggregates.scan\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun <R> ShortArray.scan(initial: R, operation: (acc: R, Short) -> R): List<R> {\n return
runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by
applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial]
value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would
affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value
and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun <R> IntArray.scan(initial: R, operation: (acc: R, Int) -> R): List<R> {\n return runningFold(initial,
operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation]
from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that
`acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in
resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and
calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun <R> LongArray.scan(initial: R,
operation: (acc: R, Long) -> R): List<R> {\n return runningFold(initial, operation)\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element
and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation]
function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param
[operation] function that takes current accumulator value and an element, and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun <R> FloatArray.scan(initial: R, operation: (acc: R, Float) -> R): List<R> {\n return
runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by
applying [operation] from
left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc`
value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in
resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and
calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun <R> DoubleArray.scan(initial: R, operation: (acc: R, Double) -> R): List<R> {\n return
runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by
applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial]
value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise
it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current
accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun <R> BooleanArray.scan(initial: R, operation: (acc: R, Boolean) -> R): List<R> {\n return
runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by
applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial]
value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would
affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value
and an element, and calculates the next accumulator value.\n *

\n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharArray.scan(initial: R, operation: (acc: R, Char) -> R): List<R> {\n return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <T, R> Array<out T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {\n return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> ByteArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Byte) -> R): List<R> {\n return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): List<R> {\n return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Int) -> R): List<R> {\n return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> LongArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Long) -> R): List<R> {\n return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current

accumulator value that starts with [initial] value.\n
 * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> FloatArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): List<R> {\n    return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise
 it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): List<R> {\n    return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes
 the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): List<R> {\n    return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates
 the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {\n    return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun <T> Array<out T>.sumBy(selector: (T) -> Int): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince
 = \"1.5\")\npublic inline fun ByteArray.sumBy(selector: (Byte) -> Int): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun ShortArray.sumBy(selector: (Short) -> Int): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun

IntArray.sumBy(selector: (Int) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun LongArray.sumBy(selector: (Long) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun FloatArray.sumBy(selector: (Float) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun DoubleArray.sumBy(selector: (Double) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun BooleanArray.sumBy(selector: (Boolean) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun CharArray.sumBy(selector: (Char) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun <T> Array<out T>.sumByDouble(selector: (T) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun ByteArray.sumByDouble(selector: (Byte) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun ShortArray.sumByDouble(selector: (Short) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun IntArray.sumByDouble(selector: (Int) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun LongArray.sumByDouble(selector: (Long) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun

FloatArray.sumByDouble(selector: (Float) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun DoubleArray.sumByDouble(selector: (Double) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun BooleanArray.sumByDouble(selector: (Boolean) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun CharArray.sumByDouble(selector: (Char) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfDouble\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.sumOf(selector: (T) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfDouble\")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.sumOf(selector: (Byte) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfDouble\")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.sumOf(selector: (Short) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfDouble\")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.sumOf(selector: (Int) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfDouble\")\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.sumOf(selector: (Long) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfDouble\")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.sumOf(selector: (Float) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfDouble\")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.sumOf(selector: (Double) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for (element

in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfDouble\")\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.sumOf(selector: (Boolean) -> Double): Double
{\n var sum: Double = 0.toDouble()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfDouble\")\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.sumOf(selector: (Char) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfInt\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.sumOf(selector: (T) -> Int):
Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfInt\")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.sumOf(selector: (Byte) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfInt\")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.sumOf(selector: (Short) -> Int): Int {\n var
sum: Int = 0.toInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfInt\")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.sumOf(selector: (Int) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfInt\")\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.sumOf(selector: (Long) -> Int): Int {\n var sum: Int = 0.toInt()\n
for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfInt\")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.sumOf(selector: (Float) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfInt\")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.sumOf(selector: (Double) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element

in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfInt\")\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.sumOf(selector: (Boolean) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfInt\")\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.sumOf(selector: (Char) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfLong\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.sumOf(selector: (T) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfLong\")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.sumOf(selector: (Byte) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfLong\")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.sumOf(selector: (Short) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfLong\")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.sumOf(selector: (Int) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n sum +=
selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfLong\")\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.sumOf(selector: (Long) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfLong\")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.sumOf(selector: (Float) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n sum += selector(element)\n
}\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfLong\")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.sumOf(selector: (Double) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by

[selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfLong\")\n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.sumOf(selector: (Boolean) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element in this)
{\n        sum += selector(element)\n
    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each
element in the array.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfLong\")\n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.sumOf(selector: (Char) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element in this) {\n
sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.sumOf(selector: (T) -> UInt): UInt {\n
var sum: UInt = 0.toUInt()\n
    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all
values produced by [selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.sumOf(selector: (Byte) -> UInt): UInt {\n    var
sum: UInt = 0.toUInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n *
Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline
    fun ShortArray.sumOf(selector: (Short) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n    for (element in this) {\n
        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.sumOf(selector: (Int) -> UInt): UInt {\n    var
sum: UInt = 0.toUInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n *
Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic
    inline fun LongArray.sumOf(selector: (Long) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n    for (element in
this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.sumOf(selector: (Float) -> UInt): UInt {\n    var
sum: UInt = 0.toUInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n *
Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic

inline fun DoubleArray.sumOf(selector: (Double) -> UInt): UInt {\n var sum: UInt = 0.toUInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.sumOf(selector: (Boolean) -> UInt): UInt {\n var sum: UInt = 0.toUInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.sumOf(selector: (Char) -> UInt): UInt {\n var sum: UInt = 0.toUInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.sumOf(selector: (T) -> ULong): ULong {\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.sumOf(selector: (Byte) -> ULong): ULong {\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.sumOf(selector: (Short) -> ULong): ULong {\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.sumOf(selector: (Int) -> ULong): ULong {\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.sumOf(selector: (Long) -> ULong): ULong {\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.sumOf(selector: (Float) -> ULong): ULong {\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return

sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic
inline fun DoubleArray.sumOf(selector: (Double) -> ULong): ULong {\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.sumOf(selector: (Boolean) -> ULong): ULong {\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.sumOf(selector: (Char) -> ULong): ULong {\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns an original collection containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are any `null` elements.\n */\npublic fun <T : Any> Array<T?>.requireNoNulls(): Array<T> {\n for (element in this) {\n if (element == null) {\n throw IllegalArgumentException(\"null element found in $this.\")\n }\n }\n @Suppress(\"UNCHECKED_CAST\")\n return this as Array<T>\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for
which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n *\n * @sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\npublic inline fun <T> Array<out T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {\n val first = ArrayList<T>()\n val second = ArrayList<T>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n * @sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\npublic inline fun ByteArray.partition(predicate: (Byte) -> Boolean): Pair<List<Byte>, List<Byte>> {\n val first = ArrayList<Byte>()\n val second = ArrayList<Byte>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n * @sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\npublic inline fun ShortArray.partition(predicate: (Short) -> Boolean): Pair<List<Short>, List<Short>> {\n val first = ArrayList<Short>()\n val second = ArrayList<Short>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n * @sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\npublic inline fun IntArray.partition(predicate: (Int) -> Boolean): Pair<List<Int>, List<Int>> {\n val first = ArrayList<Int>()\n val second = ArrayList<Int>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original

array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n * @sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\npublic inline fun LongArray.partition(predicate: (Long) -> Boolean): Pair<List<Long>, List<Long>> {\n val first = ArrayList<Long>()\n val second = ArrayList<Long>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n * @sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\npublic inline fun FloatArray.partition(predicate: (Float) -> Boolean): Pair<List<Float>, List<Float>> {\n val first = ArrayList<Float>()\n val second = ArrayList<Float>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n * @sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\npublic inline fun DoubleArray.partition(predicate: (Double) -> Boolean): Pair<List<Double>, List<Double>> {\n val first = ArrayList<Double>()\n val second = ArrayList<Double>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n * @sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\npublic inline fun BooleanArray.partition(predicate: (Boolean) -> Boolean): Pair<List<Boolean>, List<Boolean>> {\n val first = ArrayList<Boolean>()\n val second = ArrayList<Boolean>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n * @sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\npublic inline fun CharArray.partition(predicate: (Char) -> Boolean): Pair<List<Char>, List<Char>> {\n val first = ArrayList<Char>()\n val second = ArrayList<Char>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <T, R> Array<out T>.zip(other: Array<out R>): List<Pair<T, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> ByteArray.zip(other: Array<out R>): List<Pair<Byte, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> ShortArray.zip(other: Array<out R>): List<Pair<Short, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> IntArray.zip(other: Array<out R>): List<Pair<Int, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R>

LongArray.zip(other: Array<out R>): List<Pair<Long, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list
of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> FloatArray.zip(other: Array<out R>): List<Pair<Float, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> DoubleArray.zip(other: Array<out R>): List<Pair<Double, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic
infix fun <R> BooleanArray.zip(other: Array<out R>): List<Pair<Boolean, R>> {\n    return zip(other) { t1, t2 ->
t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> CharArray.zip(other: Array<out R>): List<Pair<Char, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <T, R, V> Array<out T>.zip(other: Array<out R>, transform: (a: T, b: R) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> ByteArray.zip(other: Array<out R>, transform: (a: Byte, b: R) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list
has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> ShortArray.zip(other: Array<out R>, transform: (a: Short, b: R) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> IntArray.zip(other: Array<out R>, transform: (a: Int, b: R) -> V): List<V> {\n    val size = minOf(size, other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i],
other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> LongArray.zip(other: Array<out R>, transform: (a: Long, b: R) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned

```
list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
 */\npublic inline fun <R, V> FloatArray.zip(other: Array<out R>, transform: (a: Float, b: R) -> V): List<V> {\n
val size = minOf(size, other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n
list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of values built from the elements
of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each
pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V>
DoubleArray.zip(other: Array<out R>, transform: (a: Double, b: R) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n
}\n    return list\n}\n\n/**\n * Returns a list of values built from the elements
 of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each
pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V>
BooleanArray.zip(other: Array<out R>, transform: (a: Boolean, b: R) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n
}\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V>
CharArray.zip(other: Array<out R>, transform:
 (a: Char, b: R) -> V): List<V> {\n    val size = minOf(size, other.size)\n    val list = ArrayList<V>(size)\n    for (i in
0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of pairs built
from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <T,
R> Array<out T>.zip(other: Iterable<R>): List<Pair<T, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n
* Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The
returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> ByteArray.zip(other: Iterable<R>):
List<Pair<Byte, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns
 a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list
has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*/\npublic infix fun <R> ShortArray.zip(other: Iterable<R>): List<Pair<Short, R>> {\n    return zip(other) { t1, t2 ->
t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the
same index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> IntArray.zip(other: Iterable<R>):
List<Pair<Int, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the
elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
 */\npublic infix fun <R> LongArray.zip(other: Iterable<R>): List<Pair<Long, R>> {\n    return zip(other) { t1, t2 -
> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the
same index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> FloatArray.zip(other: Iterable<R>):
List<Pair<Float, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the
elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R>
DoubleArray.zip(other: Iterable<R>): List<Pair<Double, R>> {\n    return zip(other) { t1, t2 -> t1 to t2
}\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array
```

with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> BooleanArray.zip(other: Iterable<R>): List<Pair<Boolean, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> CharArray.zip(other: Iterable<R>): List<Pair<Char, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <T, R, V> Array<out T>.zip(other: Iterable<R>, transform: (a: T, b: R) -> V): List<V> {\n val arraySize = size\n val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> ByteArray.zip(other: Iterable<R>, transform: (a: Byte, b: R) -> V): List<V> {\n val arraySize = size\n val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> ShortArray.zip(other: Iterable<R>, transform: (a: Short, b: R) -> V): List<V> {\n val arraySize = size\n val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function
applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> IntArray.zip(other: Iterable<R>, transform: (a: Int, b: R) -> V): List<V> {\n val arraySize = size\n val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> LongArray.zip(other: Iterable<R>, transform: (a: Long, b: R) -> V): List<V>
{\n val arraySize = size\n val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> FloatArray.zip(other: Iterable<R>, transform: (a: Float, b: R) -> V): List<V> {\n val arraySize = size\n val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n *
Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the

shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> DoubleArray.zip(other: Iterable<R>, transform: (a: Double, b: R) -> V): List<V> {\n val arraySize = size\n val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> BooleanArray.zip(other: Iterable<R>, transform: (a: Boolean, b: R) -> V): List<V> {\n val arraySize = size\n val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> CharArray.zip(other: Iterable<R>, transform: (a: Char, b: R) -> V): List<V> {\n val arraySize = size\n val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun ByteArray.zip(other: ByteArray): List<Pair<Byte, Byte>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun ShortArray.zip(other: ShortArray): List<Pair<Short, Short>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other]\n array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun IntArray.zip(other: IntArray): List<Pair<Int, Int>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun LongArray.zip(other: LongArray): List<Pair<Long, Long>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun FloatArray.zip(other: FloatArray): List<Pair<Float, Float>>
{\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun DoubleArray.zip(other: DoubleArray): List<Pair<Double, Double>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun BooleanArray.zip(other: BooleanArray): List<Pair<Boolean, Boolean>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n
* \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun CharArray.zip(other: CharArray): List<Pair<Char, Char>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided

[transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <V> ByteArray.zip(other: ByteArray, transform: (a: Byte, b: Byte) -> V): List<V> {\n val size = minOf(size, other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <V> ShortArray.zip(other: ShortArray, transform: (a: Short, b: Short) -> V): List<V> {\n val size = minOf(size, other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <V> IntArray.zip(other: IntArray, transform: (a: Int, b: Int) -> V): List<V> {\n val size = minOf(size, other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <V> LongArray.zip(other: LongArray, transform: (a: Long, b: Long) -> V): List<V> {\n val size = minOf(size, other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <V> FloatArray.zip(other: FloatArray, transform: (a: Float, b: Float) -> V): List<V> {\n val size = minOf(size, other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <V> DoubleArray.zip(other: DoubleArray, transform: (a: Double, b: Double) -> V): List<V> {\n val size = minOf(size, other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <V> BooleanArray.zip(other: BooleanArray, transform: (a: Boolean, b: Boolean) -> V): List<V> {\n val size = minOf(size, other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <V> CharArray.zip(other: CharArray, transform: (a: Char, b: Char) -> V): List<V> {\n val size = minOf(size, other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n }\n return list\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the

collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <T, A : Appendable> Array<out T>.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((T) -> CharSequence)? = null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1) buffer.append(separator)\n if (limit < 0 || count <= limit) {\n buffer.appendElement(element, transform)\n } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable> ByteArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Byte) -> CharSequence)? = null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1) buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\n buffer.append(transform(element))\n else\n buffer.append(element.toString())\n } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable> ShortArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Short) -> CharSequence)? = null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1) buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\n buffer.append(transform(element))\n else\n buffer.append(element.toString())\n } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable> IntArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Int) -> CharSequence)? = null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1) buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\n buffer.append(transform(element))\n else\n buffer.append(element.toString())\n } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable> LongArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Long) -> CharSequence)? = null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1) buffer.append(separator)\n

```
    if (limit < 0 || count <= limit) {\n            if (transform != null)\n                buffer.append(transform(element))\n
    else\n                buffer.append(element.toString())\n        } else break\n    }\n    if (limit >= 0 && count > limit)
buffer.append(truncated)\n    buffer.append(postfix)\n    return buffer\n}\n\n/**\n * Appends the string from all the
elements separated using [separator] and using the given [prefix]
 and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in
which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to
\"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A :
Appendable> FloatArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix:
CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Float) -> CharSequence)? =
null): A {\n    buffer.append(prefix)\n    var count = 0\n    for (element in this) {\n        if (++count > 1)
buffer.append(separator)\n        if (limit < 0 || count <= limit) {\n            if (transform != null)\n
buffer.append(transform(element))\n            else\n                buffer.append(element.toString())\n        } else break\n
}\n    if (limit >= 0 && count > limit) buffer.append(truncated)\n
    buffer.append(postfix)\n    return buffer\n}\n\n/**\n * Appends the string from all the elements separated using
[separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can
specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed
by the [truncated] string (which defaults to \"...\").\n * \n * @sample
samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable>
DoubleArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix:
CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Double) -> CharSequence)? =
null): A {\n    buffer.append(prefix)\n    var count = 0\n    for (element in this) {\n        if (++count > 1)
buffer.append(separator)\n        if (limit < 0 || count <= limit) {\n            if (transform != null)\n
buffer.append(transform(element))\n
            else\n                buffer.append(element.toString())\n        } else break\n    }\n    if (limit >= 0 && count >
limit) buffer.append(truncated)\n    buffer.append(postfix)\n    return buffer\n}\n\n/**\n * Appends the string from
all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the
collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n *
elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample
samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable>
BooleanArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix:
CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Boolean) -> CharSequence)? =
null): A {\n    buffer.append(prefix)\n    var count = 0\n    for (element in this) {\n        if (++count
 > 1) buffer.append(separator)\n        if (limit < 0 || count <= limit) {\n            if (transform != null)\n
buffer.append(transform(element))\n            else\n                buffer.append(element.toString())\n        } else break\n
}\n    if (limit >= 0 && count > limit) buffer.append(truncated)\n    buffer.append(postfix)\n    return
buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of
[limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which
defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A :
Appendable> CharArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix:
CharSequence = \"\", limit: Int = -1, truncated: CharSequence
 = \"...\", transform: ((Char) -> CharSequence)? = null): A {\n    buffer.append(prefix)\n    var count = 0\n    for
(element in this) {\n        if (++count > 1) buffer.append(separator)\n        if (limit < 0 || count <= limit) {\n            if
(transform != null)\n                buffer.append(transform(element))\n            else\n                buffer.append(element)\n
    } else break\n    }\n    if (limit >= 0 && count > limit) buffer.append(truncated)\n    buffer.append(postfix)\n
return buffer\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of
[limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which
```

defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun <T> Array<out T>.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((T) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun ByteArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Byte) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun ShortArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Short) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun IntArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Int) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun LongArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Long) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun FloatArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Float) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun DoubleArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Double) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n

* Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun BooleanArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Boolean) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun CharArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Char) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun <T> Array<out T>.asIterable(): Iterable<T> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun ByteArray.asIterable(): Iterable<Byte> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun ShortArray.asIterable(): Iterable<Short> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun IntArray.asIterable(): Iterable<Int> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun LongArray.asIterable(): Iterable<Long> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun FloatArray.asIterable(): Iterable<Float> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun DoubleArray.asIterable(): Iterable<Double> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun BooleanArray.asIterable(): Iterable<Boolean> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun CharArray.asIterable(): Iterable<Char> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun <T> Array<out T>.asSequence(): Sequence<T> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun ByteArray.asSequence(): Sequence<Byte> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun ShortArray.asSequence(): Sequence<Short> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun IntArray.asSequence(): Sequence<Int> {\n if (isEmpty()) return emptySequence()\n return Sequence {

this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun LongArray.asSequence(): Sequence<Long> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun FloatArray.asSequence(): Sequence<Float> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun DoubleArray.asSequence(): Sequence<Double> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun BooleanArray.asSequence(): Sequence<Boolean> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun CharArray.asSequence(): Sequence<Char> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n * Returns an average value of elements in the array.\n */\n@kotlin.jvm.JvmName(\"averageOfByte\")\npublic fun Array<out Byte>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\n@kotlin.jvm.JvmName(\"averageOfShort\")\npublic fun Array<out Short>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\n@kotlin.jvm.JvmName(\"averageOfInt\")\npublic fun Array<out Int>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\n@kotlin.jvm.JvmName(\"averageOfLong\")\npublic fun Array<out Long>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\n@kotlin.jvm.JvmName(\"averageOfFloat\")\npublic fun Array<out Float>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\n@kotlin.jvm.JvmName(\"averageOfDouble\")\npublic fun Array<out Double>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\npublic fun ByteArray.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\npublic fun ShortArray.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\npublic fun IntArray.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\npublic fun LongArray.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\npublic fun FloatArray.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum /

count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\npublic fun DoubleArray.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfByte\")\npublic fun Array<out Byte>.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfShort\")\npublic fun Array<out Short>.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfInt\")\npublic fun Array<out Int>.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfLong\")\npublic fun Array<out Long>.sum(): Long {\n var sum: Long = 0L\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfFloat\")\npublic fun Array<out Float>.sum(): Float {\n var sum: Float = 0.0f\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfDouble\")\npublic fun Array<out Double>.sum(): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun ByteArray.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun ShortArray.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun IntArray.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun LongArray.sum(): Long {\n var sum: Long = 0L\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun FloatArray.sum(): Float {\n var sum: Float = 0.0f\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun DoubleArray.sum(): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"RangesKt\")\n\npackage kotlin.ranges\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\n\n/**\n * Returns a random element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun IntRange.random(): Int {\n return random(Random)\n}\n\n/**\n * Returns a random element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun LongRange.random(): Long {\n return random(Random)\n}\n\n/**\n * Returns a random element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun CharRange.random(): Char {\n return random(Random)\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun IntRange.random(random: Random): Int {\n try {\n return random.nextInt(this)\n } catch(e: IllegalArgumentException) {\n throw NoSuchElementException(e.message)\n }\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun LongRange.random(random: Random): Long {\n try {\n return random.nextLong(this)\n } catch(e: IllegalArgumentException) {\n throw NoSuchElementException(e.message)\n }\n}\n\n/**\n * Returns a random element from this range using the

specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun CharRange.random(random: Random): Char {\n    try {\n        return random.nextInt(first.code, last.code + 1).toChar()\n    } catch(e: IllegalArgumentException) {\n        throw NoSuchElementException(e.message)\n    }\n}\n\n/**\n * Returns a random element from this range, or `null` if this range is empty.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
 inline fun IntRange.randomOrNull(): Int? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this range, or `null` if this range is empty.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun LongRange.randomOrNull(): Long? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this range, or `null` if this range is empty.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharRange.randomOrNull(): Char? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness, or `null` if this range is empty.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun IntRange.randomOrNull(random: Random): Int? {\n    if (isEmpty())\n        return null\n    return random.nextInt(this)\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness, or `null` if this range is empty.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun LongRange.randomOrNull(random: Random): Long? {\n    if (isEmpty())\n        return null\n    return random.nextLong(this)\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness, or `null` if this range is empty.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun CharRange.randomOrNull(random: Random): Char? {\n    if (isEmpty())\n        return null\n    return random.nextInt(first.code, last.code + 1).toChar()\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline operator
 fun IntRange.contains(element: Int?): Boolean {\n    return element != null && contains(element)\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline operator fun LongRange.contains(element: Long?): Boolean {\n    return element != null && contains(element)\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline operator fun CharRange.contains(element: Char?): Boolean {\n    return element != null && contains(element)\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"intRangeContains\")\npublic operator fun ClosedRange<Int>.contains(value: Byte): Boolean {\n    return contains(value.toInt())\n}\n\n/**\n * Checks if the specified [value]
 belongs to this range.\n */\n@kotlin.jvm.JvmName(\"longRangeContains\")\npublic operator fun ClosedRange<Long>.contains(value: Byte): Boolean {\n    return contains(value.toLong())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"shortRangeContains\")\npublic operator fun ClosedRange<Short>.contains(value: Byte): Boolean {\n    return contains(value.toShort())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\", hiddenSince = \"1.5\")\n@kotlin.jvm.JvmName(\"doubleRangeContains\")\npublic operator fun ClosedRange<Double>.contains(value: Byte): Boolean {\n    return contains(value.toDouble())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing

integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\", hiddenSince = \"1.5\")\n@kotlin.jvm.JvmName(\"floatRangeContains\")\npublic operator fun ClosedRange<Float>.contains(value: Byte): Boolean {\n    return contains(value.toFloat())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\", hiddenSince = \"1.5\")\n@kotlin.jvm.JvmName(\"intRangeContains\")\npublic operator fun ClosedRange<Int>.contains(value: Double): Boolean {\n    return value.toIntExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\", hiddenSince = \"1.5\")\n@kotlin.jvm.JvmName(\"longRangeContains\")\npublic operator fun ClosedRange<Long>.contains(value: Double): Boolean {\n    return value.toLongExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\", hiddenSince = \"1.5\")\n@kotlin.jvm.JvmName(\"byteRangeContains\")\npublic operator fun ClosedRange<Byte>.contains(value: Double): Boolean {\n    return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\", hiddenSince = \"1.5\")\n@kotlin.jvm.JvmName(\"shortRangeContains\")\npublic operator fun ClosedRange<Short>.contains(value: Double): Boolean {\n    return value.toShortExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"floatRangeContains\")\npublic operator fun ClosedRange<Float>.contains(value: Double): Boolean {\n    return contains(value.toFloat())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\", hiddenSince = \"1.5\")\n@kotlin.jvm.JvmName(\"intRangeContains\")\npublic operator fun ClosedRange<Int>.contains(value:
Float): Boolean {\n    return value.toIntExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\", hiddenSince = \"1.5\")\n@kotlin.jvm.JvmName(\"longRangeContains\")\npublic operator fun ClosedRange<Long>.contains(value: Float): Boolean {\n    return value.toLongExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\", hiddenSince = \"1.5\")\n@kotlin.jvm.JvmName(\"byteRangeContains\")\npublic operator
fun ClosedRange<Byte>.contains(value: Float): Boolean {\n    return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\", hiddenSince = \"1.5\")\n@kotlin.jvm.JvmName(\"shortRangeContains\")\npublic operator fun ClosedRange<Short>.contains(value: Float): Boolean {\n    return value.toShortExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n

*/\n@kotlin.jvm.JvmName(\"doubleRangeContains\")\npublic operator fun ClosedRange<Double>.contains(value: Float): Boolean {\n    return contains(value.toDouble())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"longRangeContains\")\npublic operator fun ClosedRange<Long>.contains(value: Int): Boolean {\n    return contains(value.toLong())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"byteRangeContains\")\npublic operator fun ClosedRange<Byte>.contains(value: Int): Boolean {\n    return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"shortRangeContains\")\npublic operator fun ClosedRange<Short>.contains(value: Int): Boolean {\n    return value.toShortExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\", hiddenSince = \"1.5\")\n@kotlin.jvm.JvmName(\"doubleRangeContains\")\npublic operator fun ClosedRange<Double>.contains(value: Int): Boolean {\n    return contains(value.toDouble())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\", hiddenSince = \"1.5\")\n@kotlin.jvm.JvmName(\"floatRangeContains\")\npublic operator fun ClosedRange<Float>.contains(value: Int): Boolean {\n    return contains(value.toFloat())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"intRangeContains\")\npublic operator fun ClosedRange<Int>.contains(value: Long): Boolean {\n    return value.toIntExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"byteRangeContains\")\npublic operator fun ClosedRange<Byte>.contains(value: Long): Boolean {\n    return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"shortRangeContains\")\npublic operator fun ClosedRange<Short>.contains(value: Long): Boolean {\n    return value.toShortExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\", hiddenSince = \"1.5\")\n@kotlin.jvm.JvmName(\"doubleRangeContains\")\npublic operator fun ClosedRange<Double>.contains(value: Long): Boolean {\n    return contains(value.toDouble())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\", hiddenSince = \"1.5\")\n@kotlin.jvm.JvmName(\"floatRangeContains\")\npublic operator fun ClosedRange<Float>.contains(value: Long): Boolean {\n    return contains(value.toFloat())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"intRangeContains\")\npublic operator fun ClosedRange<Int>.contains(value: Short): Boolean {\n    return contains(value.toInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"longRangeContains\")\npublic operator fun ClosedRange<Long>.contains(value: Short): Boolean {\n    return contains(value.toLong())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"byteRangeContains\")\npublic operator fun ClosedRange<Byte>.contains(value: Short): Boolean {\n    return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\", hiddenSince = \"1.5\")\n@kotlin.jvm.JvmName(\"doubleRangeContains\")\npublic operator fun ClosedRange<Double>.contains(value: Short): Boolean {\n    return

contains(value.toDouble())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\", hiddenSince = \"1.5\")\n@kotlin.jvm.JvmName(\"floatRangeContains\")\npublic operator fun ClosedRange<Float>.contains(value: Short): Boolean {\n    return contains(value.toFloat())\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Int.downTo(to: Byte): IntProgression {\n    return IntProgression.fromClosedRange(this, to.toInt(), -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Long.downTo(to: Byte): LongProgression {\n    return LongProgression.fromClosedRange(this, to.toLong(), -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater
than `this` value the returned progression is empty.\n */\npublic infix fun Byte.downTo(to: Byte): IntProgression {\n    return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Short.downTo(to: Byte): IntProgression {\n    return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Char.downTo(to: Char): CharProgression {\n    return CharProgression.fromClosedRange(this, to, -1)\n}\n\n/**\n * Returns a progression
from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Int.downTo(to: Int): IntProgression {\n    return IntProgression.fromClosedRange(this, to, -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Long.downTo(to: Int): LongProgression {\n    return LongProgression.fromClosedRange(this, to.toLong(), -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic
infix fun Byte.downTo(to: Int): IntProgression {\n    return IntProgression.fromClosedRange(this.toInt(), to, -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Short.downTo(to: Int): IntProgression {\n    return IntProgression.fromClosedRange(this.toInt(), to, -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Int.downTo(to: Long): LongProgression {\n    return LongProgression.fromClosedRange(this.toLong(), to, -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n
* \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Long.downTo(to: Long): LongProgression {\n    return LongProgression.fromClosedRange(this, to, -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Byte.downTo(to: Long): LongProgression {\n    return LongProgression.fromClosedRange(this.toLong(), to, -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less

than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Short.downTo(to: Long): LongProgression {\n return LongProgression.fromClosedRange(this.toLong(), to, -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Int.downTo(to: Short): IntProgression {\n return IntProgression.fromClosedRange(this, to.toInt(), -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Long.downTo(to: Short): LongProgression {\n return LongProgression.fromClosedRange(this, to.toLong(), -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Byte.downTo(to: Short): IntProgression {\n return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Short.downTo(to: Short): IntProgression {\n return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n}\n\n/**\n * Returns a progression that goes over the same range in the opposite direction with the same step.\n */\npublic fun IntProgression.reversed(): IntProgression {\n return IntProgression.fromClosedRange(last, first, -step)\n}\n\n/**\n * Returns a progression that goes over the same range in the opposite direction with the same step.\n */\npublic fun LongProgression.reversed(): LongProgression {\n return LongProgression.fromClosedRange(last, first, -step)\n}\n\n/**\n * Returns a progression that goes over the same range in the opposite direction with the same step.\n */\npublic fun CharProgression.reversed(): CharProgression {\n return CharProgression.fromClosedRange(last, first, -step)\n}\n\n/**\n * Returns a progression that goes over the same range with the given step.\n */\npublic infix fun IntProgression.step(step: Int): IntProgression {\n checkStepIsPositive(step > 0, step)\n return IntProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\n/**\n * Returns a progression that goes over the same range with the given step.\n */\npublic infix fun LongProgression.step(step: Long): LongProgression {\n checkStepIsPositive(step > 0, step)\n return LongProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\n/**\n * Returns a progression that goes over the same range with the given step.\n */\npublic infix fun CharProgression.step(step: Int): CharProgression {\n checkStepIsPositive(step > 0, step)\n return CharProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\ninternal fun Int.toByteExactOrNull(): Byte? {\n return if (this in Byte.MIN_VALUE.toInt()..Byte.MAX_VALUE.toInt()) this.toByte() else null\n}\n\ninternal fun Long.toByteExactOrNull(): Byte? {\n return if (this in Byte.MIN_VALUE.toLong()..Byte.MAX_VALUE.toLong()) this.toByte() else null\n}\n\ninternal fun Short.toByteExactOrNull(): Byte? {\n return if (this in Byte.MIN_VALUE.toShort()..Byte.MAX_VALUE.toShort()) this.toByte() else null\n}\n\ninternal fun Double.toByteExactOrNull(): Byte? {\n return if (this in Byte.MIN_VALUE.toDouble()..Byte.MAX_VALUE.toDouble()) this.toInt().toByte() else null\n}\n\ninternal fun Float.toByteExactOrNull(): Byte? {\n return if (this in Byte.MIN_VALUE.toFloat()..Byte.MAX_VALUE.toFloat()) this.toInt().toByte() else null\n}\n\ninternal fun Long.toIntExactOrNull(): Int? {\n return if (this in Int.MIN_VALUE.toLong()..Int.MAX_VALUE.toLong()) this.toInt() else null\n}\n\ninternal fun Double.toIntExactOrNull(): Int? {\n return if (this in Int.MIN_VALUE.toDouble()..Int.MAX_VALUE.toDouble()) this.toInt() else null\n}\n\ninternal fun Float.toIntExactOrNull(): Int? {\n return if (this in Int.MIN_VALUE.toFloat()..Int.MAX_VALUE.toFloat()) this.toInt() else null\n}\n\ninternal fun Double.toLongExactOrNull(): Long? {\n return if (this in

Long.MIN_VALUE.toDouble()..Long.MAX_VALUE.toDouble()) this.toLong() else null\n}\n\ninternal fun Float.toLongExactOrNull(): Long? {\n return if (this in Long.MIN_VALUE.toFloat()..Long.MAX_VALUE.toFloat()) this.toLong() else null\n}\n\ninternal fun Int.toShortExactOrNull(): Short? {\n return if (this in Short.MIN_VALUE.toInt()..Short.MAX_VALUE.toInt()) this.toShort() else null\n}\n\ninternal fun Long.toShortExactOrNull(): Short? {\n return if (this in Short.MIN_VALUE.toLong()..Short.MAX_VALUE.toLong()) this.toShort() else null\n}\n\ninternal fun Double.toShortExactOrNull(): Short? {\n return if (this in Short.MIN_VALUE.toDouble()..Short.MAX_VALUE.toDouble()) this.toInt().toShort() else null\n}\n\ninternal fun Float.toShortExactOrNull(): Short? {\n return if (this in Short.MIN_VALUE.toFloat()..Short.MAX_VALUE.toFloat()) this.toInt().toShort() else null\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Int.until(to: Byte): IntRange {\n return this .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Long.until(to: Byte): LongRange {\n return this .. (to.toLong() - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Byte.until(to: Byte): IntRange {\n return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Short.until(to: Byte): IntRange {\n return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Char.until(to: Char): CharRange {\n if (to <= '\\u0000') return CharRange.EMPTY\n return this .. (to - 1).toChar()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Int.until(to: Int): IntRange {\n if (to <= Int.MIN_VALUE) return IntRange.EMPTY\n return this .. (to - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Long.until(to: Int): LongRange {\n return this .. (to.toLong() - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Byte.until(to: Int): IntRange {\n if (to <= Int.MIN_VALUE) return IntRange.EMPTY\n return this.toInt() .. (to - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Short.until(to: Int): IntRange {\n if (to <= Int.MIN_VALUE) return IntRange.EMPTY\n return this.toInt() .. (to - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Int.until(to: Long): LongRange {\n if (to <= Long.MIN_VALUE) return LongRange.EMPTY\n return this.toLong() .. (to - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Long.until(to: Long): LongRange {\n if (to <= Long.MIN_VALUE) return LongRange.EMPTY\n return this .. (to - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Byte.until(to: Long): LongRange {\n if (to <= Long.MIN_VALUE) return LongRange.EMPTY\n return this.toLong() .. (to - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Short.until(to: Long): LongRange {\n if (to <= Long.MIN_VALUE) return LongRange.EMPTY\n return this.toLong() .. (to - 1).toLong()\n}\n\n/**\n * Returns a

range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Int.until(to: Short): IntRange {\n return this .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but
excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Long.until(to: Short): LongRange {\n return this .. (to.toLong() - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Byte.until(to: Short): IntRange {\n return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Short.until(to: Short): IntRange {\n return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue]
or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeastComparable\n */\npublic fun <T : Comparable<T>> T.coerceAtLeast(minimumValue: T): T {\n return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeast\n */\npublic fun Byte.coerceAtLeast(minimumValue: Byte): Byte {\n return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n */\npublic fun Short.coerceAtLeast(minimumValue: Short): Short {\n return if (this < minimumValue)
minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n */\npublic fun Int.coerceAtLeast(minimumValue: Int): Int {\n return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeast\n */\npublic fun Long.coerceAtLeast(minimumValue: Long): Long {\n return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n
* \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n */\npublic fun
Float.coerceAtLeast(minimumValue: Float): Float {\n return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeast\n */\npublic fun Double.coerceAtLeast(minimumValue: Double): Double {\n return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostComparable\n */\npublic fun <T : Comparable<T>> T.coerceAtMost(maximumValue: T): T {\n return if (this > maximumValue) maximumValue else this\n}\n\n/**\n
* Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun Byte.coerceAtMost(maximumValue: Byte): Byte {\n return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample

samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun Short.coerceAtMost(maximumValue: Short): Short {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun Int.coerceAtMost(maximumValue: Int): Int {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun Long.coerceAtMost(maximumValue: Long): Long {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun Float.coerceAtMost(maximumValue: Float): Float {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n
* \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun Double.coerceAtMost(maximumValue: Double): Double {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInComparable\n */\npublic fun <T : Comparable<T>> T.coerceIn(minimumValue: T?, maximumValue: T?): T {\n    if (minimumValue !== null && maximumValue !== null) {\n        if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n        if (this < minimumValue)
return minimumValue\n        if (this > maximumValue) return maximumValue\n    }\n    else {\n        if (minimumValue !== null && this < minimumValue) return minimumValue\n        if (maximumValue !== null && this > maximumValue) return maximumValue\n    }\n    return this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Byte.coerceIn(minimumValue: Byte, maximumValue: Byte): Byte {\n    if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n    if (this < minimumValue) return minimumValue\n    if (this > maximumValue) return maximumValue\n    return this\n}\n\n/**\n *
Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Short.coerceIn(minimumValue: Short, maximumValue: Short): Short {\n    if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n    if (this < minimumValue) return minimumValue\n    if (this > maximumValue) return maximumValue\n    return this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Int.coerceIn(minimumValue: Int, maximumValue: Int): Int {\n    if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum

$maximumValue is less than minimum $minimumValue.\")\n    if (this < minimumValue) return minimumValue\n    if (this > maximumValue) return maximumValue\n    return this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Long.coerceIn(minimumValue: Long, maximumValue: Long): Long {\n    if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n    if (this < minimumValue)
    return minimumValue\n    if (this > maximumValue) return maximumValue\n    return this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Float.coerceIn(minimumValue: Float, maximumValue: Float): Float {\n    if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n    if (this < minimumValue) return minimumValue\n    if (this > maximumValue) return maximumValue\n    return this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue],
    or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Double.coerceIn(minimumValue: Double, maximumValue: Double): Double {\n    if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n    if (this < minimumValue) return minimumValue\n    if (this > maximumValue) return maximumValue\n    return this\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample samples.comparisons.ComparableOps.coerceInFloatingPointRange\n */\n@SinceKotlin(\"1.1\")\npublic fun <T : Comparable<T>> T.coerceIn(range: ClosedFloatingPointRange<T>): T {\n    if (range.isEmpty()) throw IllegalArgumentException(\"Cannot
    coerce value to an empty range: $range.\")\n    return when {\n        // this < start equiv to this <= start && !(this >= start)\n        range.lessThanOrEquals(this, range.start) && !range.lessThanOrEquals(range.start, this) -> range.start\n        // this > end equiv to this >= end && !(this <= end)\n        range.lessThanOrEquals(range.endInclusive, this) && !range.lessThanOrEquals(this, range.endInclusive) -> range.endInclusive\n        else -> this\n    }\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample samples.comparisons.ComparableOps.coerceInComparable\n */\npublic fun <T : Comparable<T>> T.coerceIn(range: ClosedRange<T>): T {\n    if (range is ClosedFloatingPointRange) {\n        return this.coerceIn<T>(range)\n    }\n    if (range.isEmpty()) throw
    IllegalArgumentException(\"Cannot coerce value to an empty range: $range.\")\n    return when {\n        this < range.start -> range.start\n        this > range.endInclusive -> range.endInclusive\n        else -> this\n    }\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Int.coerceIn(range: ClosedRange<Int>): Int {\n    if (range is ClosedFloatingPointRange) {\n        return this.coerceIn<Int>(range)\n    }\n    if (range.isEmpty()) throw IllegalArgumentException(\"Cannot coerce value to an empty range: $range.\")\n    return when {\n        this < range.start -> range.start\n        this > range.endInclusive -> range.endInclusive\n        else -> this\n    }\n}\n\n/**\n * Ensures that this value lies

in the specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Long.coerceIn(range: ClosedRange<Long>): Long {\n if (range is ClosedFloatingPointRange) {\n return this.coerceIn<Long>(range)\n }\n if (range.isEmpty()) throw IllegalArgumentException(\"Cannot coerce value to an empty range: $range.\")\n return when {\n this < range.start -> range.start\n this > range.endInclusive -> range.endInclusive\n else -> this\n }\n}\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport kotlin.experimental.*\nimport kotlin.jvm.*\n\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@JvmInline\npublic value class UByte @PublishedApi internal constructor(@PublishedApi internal val data: Byte) : Comparable<UByte> {\n\n companion object {\n /**\n * A constant holding the minimum value an instance of UByte can have.\n */\n public const val MIN_VALUE: UByte = UByte(0)\n\n /**\n * A constant holding the maximum value an instance of UByte can have.\n */\n public const val MAX_VALUE: UByte = UByte(-1)\n\n /**\n * The number of bytes used to represent an instance of UByte in a binary form.\n */\n public const val SIZE_BYTES: Int = 1\n\n /**\n * The number of bits used to represent an instance of UByte in a binary form.\n */\n public const val SIZE_BITS: Int = 8\n }\n\n /**\n * Compares this value with the specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n @Suppress(\"OVERRIDE_BY_INLINE\")\n public override inline operator fun compareTo(other: UByte): Int = this.toInt().compareTo(other.toInt())\n\n /**\n * Compares this value with the specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun compareTo(other: UShort): Int = this.toInt().compareTo(other.toInt())\n\n /**\n * Compares this value with the specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun compareTo(other: UInt): Int = this.toUInt().compareTo(other)\n\n /**\n * Compares this value with the specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun compareTo(other: ULong): Int = this.toULong().compareTo(other)\n\n /** Adds the other value to this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UByte): UInt = this.toUInt().plus(other.toUInt())\n /** Adds the other value to this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UShort): UInt = this.toUInt().plus(other.toUInt())\n /** Adds the other value to this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UInt): UInt = this.toUInt().plus(other)\n /** Adds the other value to this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)\n\n /** Subtracts the other value from this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: UByte): UInt = this.toUInt().minus(other.toUInt())\n /** Subtracts the other value from this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: UShort): UInt = this.toUInt().minus(other.toUInt())\n /** Subtracts the other value from this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: UInt): UInt = this.toUInt().minus(other)\n /** Subtracts the other value from this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: ULong): ULong = this.toULong().minus(other)\n\n /** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: UByte): UInt = this.toUInt().times(other.toUInt())\n /** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: UShort): UInt

= this.toUInt().times(other.toUInt())\n    /** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n    public inline operator fun times(other: UInt): UInt = this.toUInt().times(other)\n /** Multiplies this value by the other value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun times(other: ULong): ULong = this.toULong().times(other)\n\n    /** Divides this value by the other value, truncating the result to an integer that is closer to zero. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun div(other: UByte): UInt = this.toUInt().div(other.toUInt())\n    /** Divides this value by the other value, truncating the result to an integer that is closer to zero. */\n    @kotlin.internal.InlineOnly\n
    public inline operator fun div(other: UShort): UInt = this.toUInt().div(other.toUInt())\n    /** Divides this value by the other value, truncating the result to an integer that is closer to zero. */\n    @kotlin.internal.InlineOnly\n public inline operator fun div(other: UInt): UInt = this.toUInt().div(other)\n    /** Divides this value by the other value, truncating the result to an integer that is closer to zero. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun div(other: ULong): ULong = this.toULong().div(other)\n\n    /**\n     * Calculates the remainder of truncating division of this value by the other value.\n     * \n     * The result is always less than the divisor.\n     */\n @kotlin.internal.InlineOnly\n    public inline operator fun rem(other: UByte): UInt = this.toUInt().rem(other.toUInt())\n    /**\n     * Calculates the remainder of truncating division of this value by the other value.\n     * \n     * The result is
 always less than the divisor.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun rem(other: UShort): UInt = this.toUInt().rem(other.toUInt())\n    /**\n     * Calculates the remainder of truncating division of this value by the other value.\n     * \n     * The result is always less than the divisor.\n     */\n @kotlin.internal.InlineOnly\n    public inline operator fun rem(other: UInt): UInt = this.toUInt().rem(other)\n    /**\n
   * Calculates the remainder of truncating division of this value by the other value.\n     * \n     * The result is always less than the divisor.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)\n\n    /**\n     * Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.\n     * \n     * For unsigned types, the results of flooring division and truncating division are the same.\n     */\n @kotlin.internal.InlineOnly\n
    public inline fun floorDiv(other: UByte): UInt = this.toUInt().floorDiv(other.toUInt())\n    /**\n     * Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.\n     * \n     * For unsigned types, the results of flooring division and truncating division are the same.\n     */\n    @kotlin.internal.InlineOnly\n public inline fun floorDiv(other: UShort): UInt = this.toUInt().floorDiv(other.toUInt())\n    /**\n     * Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.\n     * \n     * For unsigned types, the results of flooring division and truncating division are the same.\n     */\n    @kotlin.internal.InlineOnly\n public inline fun floorDiv(other: UInt): UInt = this.toUInt().floorDiv(other)\n    /**\n     * Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.\n     * \n     * For unsigned types,
 the results of flooring division and truncating division are the same.\n     */\n    @kotlin.internal.InlineOnly\n public inline fun floorDiv(other: ULong): ULong = this.toULong().floorDiv(other)\n\n    /**\n     * Calculates the remainder of flooring division of this value by the other value.\n     * \n     * The result is always less than the divisor.\n     * \n     * For unsigned types, the remainders of flooring division and truncating division are the same.\n
   */\n    @kotlin.internal.InlineOnly\n    public inline fun mod(other: UByte): UByte = this.toUInt().mod(other.toUInt()).toUByte()\n    /**\n     * Calculates the remainder of flooring division of this value by the other value.\n     * \n     * The result is always less than the divisor.\n     * \n     * For unsigned types, the remainders of flooring division and truncating division are the same.\n     */\n    @kotlin.internal.InlineOnly\n public inline fun mod(other: UShort): UShort = this.toUInt().mod(other.toUInt()).toUShort()\n
    /**\n     * Calculates the remainder of flooring division of this value by the other value.\n     * \n     * The result is always less than the divisor.\n     * \n     * For unsigned types, the remainders of flooring division and truncating division are the same.\n     */\n    @kotlin.internal.InlineOnly\n    public inline fun mod(other: UInt): UInt = this.toUInt().mod(other)\n    /**\n     * Calculates the remainder of flooring division of this value by the other value.\n     * \n     * The result is always less than the divisor.\n     * \n     * For unsigned types, the remainders of flooring division and truncating division are the same.\n     */\n    @kotlin.internal.InlineOnly\n    public inline fun

mod(other: ULong): ULong = this.toULong().mod(other)\n\n /**\n * Returns this value incremented by one.\n *\n * @sample samples.misc.Builtins.inc\n */\n @kotlin.internal.InlineOnly\n public inline operator fun inc(): UByte = UByte(data.inc())\n\n

/**\n * Returns this value decremented by one.\n *\n * @sample samples.misc.Builtins.dec\n */\n @kotlin.internal.InlineOnly\n public inline operator fun dec(): UByte = UByte(data.dec())\n\n /** Creates a range from this value to the specified [other] value. */\n @kotlin.internal.InlineOnly\n public inline operator fun rangeTo(other: UByte): UIntRange = UIntRange(this.toUInt(), other.toUInt())\n\n /** Performs a bitwise AND operation between the two values. */\n @kotlin.internal.InlineOnly\n public inline infix fun and(other: UByte): UByte = UByte(this.data and other.data)\n /** Performs a bitwise OR operation between the two values. */\n @kotlin.internal.InlineOnly\n public inline infix fun or(other: UByte): UByte = UByte(this.data or other.data)\n /** Performs a bitwise XOR operation between the two values. */\n @kotlin.internal.InlineOnly\n public inline infix fun xor(other: UByte): UByte = UByte(this.data xor other.data)\n

/** Inverts the bits in this value. */\n @kotlin.internal.InlineOnly\n public inline fun inv(): UByte = UByte(data.inv())\n\n /**\n * Converts this [UByte] value to [Byte].\n *\n * If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents\n * the same numerical value as this `UByte`. Otherwise the result is negative.\n *\n * The resulting `Byte` value has the same binary representation as this `UByte` value.\n */\n @kotlin.internal.InlineOnly\n public inline fun toByte(): Byte = data\n /**\n * Converts this [UByte] value to [Short].\n *\n * The resulting `Short` value represents the same numerical value as this `UByte`.\n *\n * The least significant 8 bits of the resulting `Short` value are the same as the bits of this `UByte` value,\n * whereas the most significant 8 bits are filled with zeros.\n */\n @kotlin.internal.InlineOnly\n public inline fun toShort():
Short = data.toShort() and 0xFF\n /**\n * Converts this [UByte] value to [Int].\n *\n * The resulting `Int` value represents the same numerical value as this `UByte`.\n *\n * The least significant 8 bits of the resulting `Int` value are the same as the bits of this `UByte` value,\n * whereas the most significant 24 bits are filled with zeros.\n */\n @kotlin.internal.InlineOnly\n public inline fun toInt(): Int = data.toInt() and 0xFF\n /**\n * Converts this [UByte] value to [Long].\n *\n * The resulting `Long` value represents the same numerical value as this `UByte`.\n *\n * The least significant 8 bits of the resulting `Long` value are the same as the bits of this `UByte` value,\n * whereas the most significant 56 bits are filled with zeros.\n */\n @kotlin.internal.InlineOnly\n public inline fun toLong(): Long = data.toLong() and 0xFF\n\n /** Returns this value. */\n @kotlin.internal.InlineOnly\n public
inline fun toUByte(): UByte = this\n /**\n * Converts this [UByte] value to [UShort].\n *\n * The resulting `UShort` value represents the same numerical value as this `UByte`.\n *\n * The least significant 8 bits of the resulting `UShort` value are the same as the bits of this `UByte` value,\n * whereas the most significant 8 bits are filled with zeros.\n */\n @kotlin.internal.InlineOnly\n public inline fun toUShort(): UShort = UShort(data.toShort() and 0xFF)\n /**\n * Converts this [UByte] value to [UInt].\n *\n * The resulting `UInt` value represents the same numerical value as this `UByte`.\n *\n * The least significant 8 bits of the resulting `UInt` value are the same as the bits of this `UByte` value,\n * whereas the most significant 24 bits are filled with zeros.\n */\n @kotlin.internal.InlineOnly\n public inline fun toUInt(): UInt = UInt(data.toInt() and 0xFF)\n /**\n * Converts this [UByte] value
to [ULong].\n *\n * The resulting `ULong` value represents the same numerical value as this `UByte`.\n *\n * The least significant 8 bits of the resulting `ULong` value are the same as the bits of this `UByte` value,\n * whereas the most significant 56 bits are filled with zeros.\n */\n @kotlin.internal.InlineOnly\n public inline fun toULong(): ULong = ULong(data.toLong() and 0xFF)\n\n /**\n * Converts this [UByte] value to [Float].\n *\n * The resulting `Float` value represents the same numerical value as this `UByte`.\n */\n @kotlin.internal.InlineOnly\n public inline fun toFloat(): Float = this.toInt().toFloat()\n /**\n * Converts this [UByte] value to [Double].\n *\n * The resulting `Double` value represents the same numerical value as this `UByte`.\n */\n @kotlin.internal.InlineOnly\n public inline fun toDouble(): Double = this.toInt().toDouble()\n\n public override fun toString(): String = toInt().toString()\n\n}\n\n/**\n

```
 * Converts this [Byte] value to [UByte].\n *\n * If this value is positive, the resulting `UByte` value represents the same numerical value as this `Byte`.\n *\n * The resulting `UByte` value has the same binary representation as this `Byte` value.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Byte.toUByte(): UByte = UByte(this)\n/**\n * Converts this [Short] value to [UByte].\n *\n * If this value is positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n * the same numerical value as this `Short`.\n *\n * The resulting `UByte` value is represented by the least significant 8 bits of this `Short` value.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Short.toUByte(): UByte = UByte(this.toByte())\n/**\n * Converts this [Int] value to [UByte].\n *\n * If this value
 is positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n * the same numerical value as this `Int`.\n *\n * The resulting `UByte` value is represented by the least significant 8 bits of this `Int` value.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Int.toUByte(): UByte = UByte(this.toByte())\n/**\n * Converts this [Long] value to [UByte].\n *\n * If this value is positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n * the same numerical value as this `Long`.\n *\n * The resulting `UByte` value is represented by the least significant 8 bits of this `Long` value.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Long.toUByte(): UByte = UByte(this.toByte())\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport kotlin.experimental.*\nimport kotlin.jvm.*\n\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@JvmInline\npublic value class UInt @PublishedApi internal constructor(@PublishedApi internal val data: Int) : Comparable<UInt> {\n\n    companion object {\n        /**\n         * A constant holding the minimum value an instance of UInt can have.\n         */\n        public const val MIN_VALUE: UInt = UInt(0)\n\n        /**\n         * A constant holding the maximum value an instance of UInt can have.\n         */\n        public const val MAX_VALUE: UInt = UInt(-1)\n\n        /**\n         * The number of bytes used to represent an instance of UInt in a binary form.\n         */\n        public const val SIZE_BYTES: Int = 4\n\n        /**\n         * The number of bits used
 to represent an instance of UInt in a binary form.\n         */\n        public const val SIZE_BITS: Int = 32\n    }\n\n    /**\n     * Compares this value with the specified value for order.\n     * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n     * or a positive number if it's greater than other.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun compareTo(other: UByte): Int = this.compareTo(other.toUInt())\n\n    /**\n     * Compares this value with the specified value for order.\n     * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n     * or a positive number if it's greater than other.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun compareTo(other: UShort): Int = this.compareTo(other.toUInt())\n\n    /**\n     * Compares this value with the specified value for order.\n     * Returns zero if this value
 is equal to the specified other value, a negative number if it's less than other,\n     * or a positive number if it's greater than other.\n     */\n    @kotlin.internal.InlineOnly\n    @Suppress(\"OVERRIDE_BY_INLINE\")\n    public override inline operator fun compareTo(other: UInt): Int = uintCompare(this.data, other.data)\n\n    /**\n     * Compares this value with the specified value for order.\n     * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n     * or a positive number if it's greater than other.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun compareTo(other: ULong): Int = this.toULong().compareTo(other)\n\n    /** Adds the other value to this value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun plus(other: UByte): UInt = this.plus(other.toUInt())\n\n    /** Adds the other value to this
```

value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun plus(other:
UShort): UInt = this.plus(other.toUInt())\n    /** Adds the other value to this value. */\n
@kotlin.internal.InlineOnly\n    public inline operator fun plus(other: UInt): UInt = UInt(this.data.plus(other.data))\n
/** Adds the other value to this value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun plus(other:
ULong): ULong = this.toULong().plus(other)\n\n    /** Subtracts the other value from this value. */\n
@kotlin.internal.InlineOnly\n    public inline operator fun minus(other: UByte): UInt = this.minus(other.toUInt())\n
/** Subtracts the other value from this value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun
minus(other: UShort): UInt = this.minus(other.toUInt())\n    /** Subtracts the other value from this value. */\n
@kotlin.internal.InlineOnly\n    public inline operator fun minus(other: UInt): UInt =
UInt(this.data.minus(other.data))\n    /** Subtracts the other value from this value. */\n
@kotlin.internal.InlineOnly\n
    public inline operator fun minus(other: ULong): ULong = this.toULong().minus(other)\n\n    /** Multiplies this
value by the other value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun times(other: UByte): UInt
= this.times(other.toUInt())\n    /** Multiplies this value by the other value. */\n    @kotlin.internal.InlineOnly\n
public inline operator fun times(other: UShort): UInt = this.times(other.toUInt())\n    /** Multiplies this value by the
other value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun times(other: UInt): UInt =
UInt(this.data.times(other.data))\n    /** Multiplies this value by the other value. */\n
@kotlin.internal.InlineOnly\n    public inline operator fun times(other: ULong): ULong =
this.toULong().times(other)\n\n    /** Divides this value by the other value, truncating the result to an integer that is
closer to zero. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun div(other: UByte):
UInt = this.div(other.toUInt())\n    /** Divides this value by the other value, truncating the result to an integer that is
closer to zero. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun div(other: UShort): UInt =
this.div(other.toUInt())\n    /** Divides this value by the other value, truncating the result to an integer that is closer
to zero. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun div(other: UInt): UInt = uintDivide(this,
other)\n    /** Divides this value by the other value, truncating the result to an integer that is closer to zero. */\n
@kotlin.internal.InlineOnly\n    public inline operator fun div(other: ULong): ULong =
this.toULong().div(other)\n\n    /**\n     * Calculates the remainder of truncating division of this value by the other
value.\n     * \n     * The result is always less than the divisor.\n     */\n    @kotlin.internal.InlineOnly\n    public
inline operator fun rem(other: UByte): UInt = this.rem(other.toUInt())\n
    /**\n     * Calculates the remainder of truncating division of this value by the other value.\n     * \n     * The result
is always less than the divisor.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun rem(other:
UShort): UInt = this.rem(other.toUInt())\n    /**\n     * Calculates the remainder of truncating division of this value
by the other value.\n     * \n     * The result is always less than the divisor.\n     */\n    @kotlin.internal.InlineOnly\n
public inline operator fun rem(other: UInt): UInt = uintRemainder(this, other)\n    /**\n     * Calculates the
remainder of truncating division of this value by the other value.\n     * \n     * The result is always less than the
divisor.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun rem(other: ULong): ULong =
this.toULong().rem(other)\n\n    /**\n     * Divides this value by the other value, flooring the result to an integer that
is closer to negative infinity.\n     * \n
     * For unsigned types, the results of flooring division and truncating division are the same.\n     */\n
@kotlin.internal.InlineOnly\n    public inline fun floorDiv(other: UByte): UInt = this.floorDiv(other.toUInt())\n
/**\n     * Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.\n
* \n     * For unsigned types, the results of flooring division and truncating division are the same.\n     */\n
@kotlin.internal.InlineOnly\n    public inline fun floorDiv(other: UShort): UInt = this.floorDiv(other.toUInt())\n
/**\n     * Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.\n
* \n     * For unsigned types, the results of flooring division and truncating division are the same.\n     */\n
@kotlin.internal.InlineOnly\n    public inline fun floorDiv(other: UInt): UInt = div(other)\n    /**\n     * Divides this
value by the other value, flooring the result

to an integer that is closer to negative infinity.\n * \n * For unsigned types, the results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun floorDiv(other: ULong): ULong = this.toULong().floorDiv(other)\n\n /**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned types, the remainders of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun mod(other: UByte): UByte = this.mod(other.toUInt()).toUByte()\n /**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned types, the remainders of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun mod(other: UShort): UShort = this.mod(other.toUInt()).toUShort()\n /**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned types, the remainders of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun mod(other: UInt): UInt = rem(other)\n /**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned types, the remainders of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun mod(other: ULong): ULong = this.toULong().mod(other)\n\n /**\n * Returns this value incremented by one.\n *\n * @sample samples.misc.Builtins.inc\n */\n @kotlin.internal.InlineOnly\n public inline operator fun inc(): UInt = UInt(data.inc())\n\n /**\n * Returns this value decremented by one.\n *\n * @sample samples.misc.Builtins.dec\n */\n @kotlin.internal.InlineOnly\n public inline operator fun dec(): UInt = UInt(data.dec())\n\n /** Creates a range from this value to the specified [other] value. */\n @kotlin.internal.InlineOnly\n public inline operator fun rangeTo(other: UInt): UIntRange = UIntRange(this, other)\n\n /**\n * Shifts this value left by the [bitCount] number of bits.\n *\n * Note that only the five lowest-order bits of the [bitCount] are used as the shift distance.\n * The shift distance actually used is therefore always in the range `0..31`.\n */\n @kotlin.internal.InlineOnly\n public inline infix fun shl(bitCount: Int): UInt = UInt(data shl bitCount)\n\n /**\n * Shifts this value right by the [bitCount] number of bits, filling the leftmost bits with zeros.\n *\n * Note that
only the five lowest-order bits of the [bitCount] are used as the shift distance.\n * The shift distance actually used is therefore always in the range `0..31`.\n */\n @kotlin.internal.InlineOnly\n public inline infix fun shr(bitCount: Int): UInt = UInt(data ushr bitCount)\n\n /** Performs a bitwise AND operation between the two values. */\n @kotlin.internal.InlineOnly\n public inline infix fun and(other: UInt): UInt = UInt(this.data and other.data)\n /** Performs a bitwise OR operation between the two values. */\n @kotlin.internal.InlineOnly\n public inline infix fun or(other: UInt): UInt = UInt(this.data or other.data)\n /** Performs a bitwise XOR operation between the two values. */\n @kotlin.internal.InlineOnly\n public inline infix fun xor(other: UInt): UInt = UInt(this.data xor other.data)\n /** Inverts the bits in this value. */\n @kotlin.internal.InlineOnly\n public inline fun inv(): UInt = UInt(data.inv())\n\n /**\n * Converts
this [UInt] value to [Byte].\n *\n * If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents\n * the same numerical value as this `UInt`.\n *\n * The resulting `Byte` value is represented by the least significant 8 bits of this `UInt` value.\n * Note that the resulting `Byte` value may be negative.\n */\n @kotlin.internal.InlineOnly\n public inline fun toByte(): Byte = data.toByte()\n /**\n * Converts this [UInt] value to [Short].\n *\n * If this value is less than or equals to [Short.MAX_VALUE], the resulting `Short` value represents\n * the same numerical value as this `UInt`.\n *\n * The resulting `Short` value is represented by the least significant 16 bits of this `UInt` value.\n * Note that the resulting `Short` value may be negative.\n */\n @kotlin.internal.InlineOnly\n public inline fun toShort(): Short = data.toShort()\n /**\n * Converts this [UInt]
value to [Int].\n *\n * If this value is less than or equals to [Int.MAX_VALUE], the resulting `Int` value represents\n * the same numerical value as this `UInt`. Otherwise the result is negative.\n *\n * The resulting `Int` value has the same binary representation as this `UInt` value.\n */\n @kotlin.internal.InlineOnly\n public

inline fun toInt(): Int = data\n /**\n * Converts this [UInt] value to [Long].\n *\n * The resulting `Long` value represents the same numerical value as this `UInt`.\n *\n * The least significant 32 bits of the resulting `Long` value are the same as the bits of this `UInt` value,\n * whereas the most significant 32 bits are filled with zeros.\n */\n @kotlin.internal.InlineOnly\n public inline fun toLong(): Long = data.toLong() and 0xFFFF_FFFF\n\n /**\n * Converts this [UInt] value to [UByte].\n *\n * If this value is less than or equals to [UByte.MAX_VALUE], the resulting `UByte`
value represents\n * the same numerical value as this `UInt`.\n *\n * The resulting `UByte` value is represented by the least significant 8 bits of this `UInt` value.\n */\n @kotlin.internal.InlineOnly\n public inline fun toUByte(): UByte = data.toUByte()\n /**\n * Converts this [UInt] value to [UShort].\n *\n * If this value is less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents\n * the same numerical value as this `UInt`.\n *\n * The resulting `UShort` value is represented by the least significant 16 bits of this `UInt` value.\n */\n @kotlin.internal.InlineOnly\n public inline fun toUShort(): UShort = data.toUShort()\n /** Returns this value. */\n @kotlin.internal.InlineOnly\n public inline fun toUInt(): UInt = this\n /**\n * Converts this [UInt] value to [ULong].\n *\n * The resulting `ULong` value represents the same numerical value as this `UInt`.\n *\n * The
least significant 32 bits of the resulting `ULong` value are the same as the bits of this `UInt` value,\n * whereas the most significant 32 bits are filled with zeros.\n */\n @kotlin.internal.InlineOnly\n public inline fun toULong(): ULong = ULong(data.toLong() and 0xFFFF_FFFF)\n\n /**\n * Converts this [UInt] value to [Float].\n *\n * The resulting value is the closest `Float` to this `UInt` value.\n * In case when this `UInt` value is exactly between two `Float`s,\n * the one with zero at least significant bit of mantissa is selected.\n */\n @kotlin.internal.InlineOnly\n public inline fun toFloat(): Float = this.toDouble().toFloat()\n /**\n * Converts this [UInt] value to [Double].\n *\n * The resulting `Double` value represents the same numerical value as this `UInt`.\n */\n @kotlin.internal.InlineOnly\n public inline fun toDouble(): Double = uintToDouble(data)\n\n public override fun toString(): String = toLong().toString()\n\n}\n\n/**\n
* Converts this [Byte] value to [UInt].\n *\n * If this value is positive, the resulting `UInt` value represents the same numerical value as this `Byte`.\n *\n * The least significant 8 bits of the resulting `UInt` value are the same as the bits of this `Byte` value,\n * whereas the most significant 24 bits are filled with the sign bit of this value.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Byte.toUInt(): UInt = UInt(this.toInt())\n/**\n * Converts this [Short] value to [UInt].\n *\n * If this value is positive, the resulting `UInt` value represents the same numerical value as this `Short`.\n *\n * The least significant 16 bits of the resulting `UInt` value are the same as the bits of this `Short` value,\n * whereas the most significant 16 bits are filled with the sign bit of this value.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic
inline fun Short.toUInt(): UInt = UInt(this.toInt())\n/**\n * Converts this [Int] value to [UInt].\n *\n * If this value is positive, the resulting `UInt` value represents the same numerical value as this `Int`.\n *\n * The resulting `UInt` value has the same binary representation as this `Int` value.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Int.toUInt(): UInt = UInt(this)\n/**\n * Converts this [Long] value to [UInt].\n *\n * If this value is positive and less than or equals to [UInt.MAX_VALUE], the resulting `UInt` value represents\n * the same numerical value as this `Long`.\n *\n * The resulting `UInt` value is represented by the least significant 32 bits of this `Long` value.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Long.toUInt(): UInt = UInt(this.toInt())\n\n/**\n * Converts
this [Float] value to [UInt].\n *\n * The fractional part, if any, is rounded down towards zero.\n * Returns zero if this `Float` value is negative or `NaN`, [UInt.MAX_VALUE] if it's bigger than `UInt.MAX_VALUE`.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Float.toUInt(): UInt = doubleToUInt(this.toDouble())\n/**\n * Converts this [Double] value to

[UInt].\n *\n * The fractional part, if any, is rounded down towards zero.\n * Returns zero if this `Double` value is negative or `NaN`, [UInt.MAX_VALUE] if it's bigger than `UInt.MAX_VALUE`.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Double.toUInt(): UInt = doubleToUInt(this)\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt
file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport kotlin.experimental.*\nimport kotlin.jvm.*\n\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@JvmInline\npublic value class UShort @PublishedApi internal constructor(@PublishedApi internal val data: Short) : Comparable<UShort> {\n\n    companion object {\n        /**\n         * A constant holding the minimum value an instance of UShort can have.\n         */\n        public const val MIN_VALUE: UShort = UShort(0)\n\n        /**\n         * A constant holding the maximum value an instance of UShort can have.\n         */\n        public const val MAX_VALUE: UShort = UShort(-1)\n\n        /**\n         * The number of bytes used to represent an instance of UShort in a binary form.\n         */\n        public const val SIZE_BYTES: Int = 2\n\n        /**\n         * The number of bits used to represent an instance of UShort in a binary form.\n         */\n        public const val SIZE_BITS: Int = 16\n    }\n\n    /**\n     * Compares this value with the specified value for order.\n     * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n     * or a positive number if it's greater than other.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun compareTo(other: UByte): Int = this.toInt().compareTo(other.toInt())\n\n    /**\n     * Compares this value with the specified value for order.\n     * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n     * or a positive number if it's greater than other.\n     */\n    @kotlin.internal.InlineOnly\n    @Suppress(\"OVERRIDE_BY_INLINE\")\n    public override inline operator fun compareTo(other: UShort): Int = this.toInt().compareTo(other.toInt())\n\n    /**\n     * Compares this value with the specified value for order.\n     * Returns zero if this value is equal to the specified other
value, a negative number if it's less than other,\n     * or a positive number if it's greater than other.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun compareTo(other: UInt): Int = this.toUInt().compareTo(other)\n\n    /**\n     * Compares this value with the specified value for order.\n     * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n     * or a positive number if it's greater than other.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun compareTo(other: ULong): Int = this.toULong().compareTo(other)\n\n    /** Adds the other value to this value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun plus(other: UByte): UInt = this.toUInt().plus(other.toUInt())\n    /** Adds the other value to this value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun plus(other: UShort): UInt = this.toUInt().plus(other.toUInt())\n    /** Adds the other value to this value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun plus(other: UInt): UInt = this.toUInt().plus(other)\n    /** Adds the other value to this value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)\n\n    /** Subtracts the other value from this value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun minus(other: UByte): UInt = this.toUInt().minus(other.toUInt())\n    /** Subtracts the other value from this value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun minus(other: UShort): UInt = this.toUInt().minus(other.toUInt())\n    /** Subtracts the other value from this value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun minus(other: UInt): UInt = this.toUInt().minus(other)\n    /** Subtracts the other value from this value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun minus(other: ULong):
ULong = this.toULong().minus(other)\n\n    /** Multiplies this value by the other value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun times(other: UByte): UInt = this.toUInt().times(other.toUInt())\n    /** Multiplies this value by the other value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun times(other: UShort): UInt = this.toUInt().times(other.toUInt())\n    /** Multiplies this value by the other value. */\n

@kotlin.internal.InlineOnly\n public inline operator fun times(other: UInt): UInt = this.toUInt().times(other)\n /** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: ULong): ULong = this.toULong().times(other)\n\n /** Divides this value by the other value, truncating the result to an integer that is closer to zero. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UByte): UInt = this.toUInt().div(other.toUInt())\n /** Divides this value by the other value, truncating the result to an integer that is closer to zero. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UShort): UInt = this.toUInt().div(other.toUInt())\n /** Divides this value by the other value, truncating the result to an integer that is closer to zero. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UInt): UInt = this.toUInt().div(other)\n /** Divides this value by the other value, truncating the result to an integer that is closer to zero. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: ULong): ULong = this.toULong().div(other)\n\n /**\n * Calculates the remainder of truncating division of this value by the other value.\n * \n * The result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UByte): UInt = this.toUInt().rem(other.toUInt())\n /**\n * Calculates the remainder of truncating division of this value by the other value.\n * \n * The result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UShort): UInt = this.toUInt().rem(other.toUInt())\n /**\n * Calculates the remainder of truncating division of this value by the other value.\n * \n * The result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UInt): UInt = this.toUInt().rem(other)\n /**\n * Calculates the remainder of truncating division of this value by the other value.\n * \n * The result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)\n\n /**\n * Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned types, the results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun floorDiv(other: UByte): UInt = this.toUInt().floorDiv(other.toUInt())\n /**\n * Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned types, the results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun floorDiv(other: UShort): UInt = this.toUInt().floorDiv(other.toUInt())\n /**\n * Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned types, the results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun floorDiv(other: UInt): UInt = this.toUInt().floorDiv(other)\n /**\n * Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned types, the results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun floorDiv(other: ULong): ULong = this.toULong().floorDiv(other)\n\n /**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned types, the remainders of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun mod(other: UByte): UByte = this.toUInt().mod(other.toUInt()).toUByte()\n /**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned types, the remainders of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun mod(other: UShort): UShort = this.toUInt().mod(other.toUInt()).toUShort()\n /**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned types, the remainders of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun mod(other: UInt): UInt = this.toUInt().mod(other)\n /**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned types, the remainders of flooring division and truncating division are the same.\n */\n

@kotlin.internal.InlineOnly\n public inline fun mod(other: ULong): ULong = this.toULong().mod(other)\n\n /**\n * Returns this value incremented by one.\n *\n * @sample samples.misc.Builtins.inc\n */\n @kotlin.internal.InlineOnly\n public inline operator fun inc(): UShort = UShort(data.inc())\n\n /**\n * Returns this value decremented by one.\n *\n * @sample samples.misc.Builtins.dec\n */\n @kotlin.internal.InlineOnly\n public inline operator fun dec(): UShort = UShort(data.dec())\n\n /** Creates a range from this value to the specified [other] value. */\n @kotlin.internal.InlineOnly\n public inline operator fun rangeTo(other: UShort): UIntRange = UIntRange(this.toUInt(), other.toUInt())\n\n /** Performs a bitwise AND operation between the two values. */\n @kotlin.internal.InlineOnly\n public inline infix fun and(other: UShort): UShort = UShort(this.data and other.data)\n /** Performs a bitwise OR operation between the two values. */\n @kotlin.internal.InlineOnly\n public inline infix fun or(other: UShort): UShort = UShort(this.data or other.data)\n /** Performs a bitwise XOR operation between the two values.
*/\n @kotlin.internal.InlineOnly\n public inline infix fun xor(other: UShort): UShort = UShort(this.data xor other.data)\n /** Inverts the bits in this value. */\n @kotlin.internal.InlineOnly\n public inline fun inv(): UShort = UShort(data.inv())\n\n /**\n * Converts this [UShort] value to [Byte].\n *\n * If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents\n * the same numerical value as this `UShort`.\n *\n * The resulting `Byte` value is represented by the least significant 8 bits of this `UShort` value.\n * Note that the resulting `Byte` value may be negative.\n */\n @kotlin.internal.InlineOnly\n public inline fun toByte(): Byte = data.toByte()\n /**\n * Converts this [UShort] value to [Short].\n *\n * If this value is less than or equals to [Short.MAX_VALUE], the resulting `Short` value represents\n * the same numerical value as this `UShort`. Otherwise the
result is negative.\n *\n * The resulting `Short` value has the same binary representation as this `UShort` value.\n */\n @kotlin.internal.InlineOnly\n public inline fun toShort(): Short = data\n /**\n * Converts this [UShort] value to [Int].\n *\n * The resulting `Int` value represents the same numerical value as this `UShort`.\n *\n * The least significant 16 bits of the resulting `Int` value are the same as the bits of this `UShort` value,\n * whereas the most significant 16 bits are filled with zeros.\n */\n @kotlin.internal.InlineOnly\n public inline fun toInt(): Int = data.toInt() and 0xFFFF\n /**\n * Converts this [UShort] value to [Long].\n *\n * The resulting `Long` value represents the same numerical value as this `UShort`.\n *\n * The least significant 16 bits of the resulting `Long` value are the same as the bits of this `UShort` value,\n * whereas the most significant 48 bits are filled with
zeros.\n */\n @kotlin.internal.InlineOnly\n public inline fun toLong(): Long = data.toLong() and 0xFFFF\n\n /**\n * Converts this [UShort] value to [UByte].\n *\n * If this value is less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n * the same numerical value as this `UShort`.\n *\n * The resulting `UByte` value is represented by the least significant 8 bits of this `UShort` value.\n */\n @kotlin.internal.InlineOnly\n public inline fun toUByte(): UByte = data.toUByte()\n /** Returns this value. */\n @kotlin.internal.InlineOnly\n public inline fun toUShort(): UShort = this\n /**\n * Converts this [UShort] value to [UInt].\n *\n * The resulting `UInt` value represents the same numerical value as this `UShort`.\n *\n * The least significant 16 bits of the resulting `UInt` value are the same as the bits of this `UShort` value,\n * whereas the most significant 16 bits are filled
with zeros.\n */\n @kotlin.internal.InlineOnly\n public inline fun toUInt(): UInt = UInt(data.toInt() and 0xFFFF)\n /**\n * Converts this [UShort] value to [ULong].\n *\n * The resulting `ULong` value represents the same numerical value as this `UShort`.\n *\n * The least significant 16 bits of the resulting `ULong` value are the same as the bits of this `UShort` value,\n * whereas the most significant 48 bits are filled with zeros.\n */\n @kotlin.internal.InlineOnly\n public inline fun toULong(): ULong = ULong(data.toLong() and 0xFFFF)\n\n /**\n * Converts this [UShort] value to [Float].\n *\n * The resulting `Float` value represents the same numerical value as this `UShort`.\n */\n @kotlin.internal.InlineOnly\n public inline fun toFloat(): Float = this.toInt().toFloat()\n /**\n * Converts this [UShort] value to [Double].\n *\n * The resulting `Double` value represents the same numerical value as

this `UShort`.\n     */\n    @kotlin.internal.InlineOnly\n    public inline fun toDouble(): Double = this.toInt().toDouble()\n\n    public override fun toString(): String = toInt().toString()\n\n}\n\n/**\n * Converts this [Byte] value to [UShort].\n *\n * If this value is positive, the resulting `UShort` value represents the same numerical value as this `Byte`.\n *\n * The least significant 8 bits of the resulting `UShort` value are the same as the bits of this `Byte` value,\n * whereas the most significant 8 bits are filled with the sign bit of this value.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Byte.toUShort(): UShort = UShort(this.toShort())\n/**\n * Converts this [Short] value to [UShort].\n *\n * If this value is positive, the resulting `UShort` value represents the same numerical value as this `Short`.\n *\n * The resulting `UShort` value has the same binary representation as this `Short` value.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Short.toUShort(): UShort = UShort(this)\n/**\n * Converts this [Int] value to [UShort].\n *\n * If this value is positive and less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents\n * the same numerical value as this `Int`.\n *\n * The resulting `UShort` value is represented by the least significant 16 bits of this `Int` value.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Int.toUShort(): UShort = UShort(this.toShort())\n/**\n * Converts this [Long] value to [UShort].\n *\n * If this value is positive and less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents\n * the same numerical value as this `Long`.\n *\n * The resulting `UShort` value is represented by the least significant 16 bits of this `Long` value.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic
inline fun Long.toUShort(): UShort = UShort(this.toShort())\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin.ranges\n\n/**\n * A range of values of type `Char`.\n */\npublic class CharRange(start: Char, endInclusive: Char) : CharProgression(start, endInclusive, 1), ClosedRange<Char> {\n    override val start: Char get() = first\n    override val endInclusive: Char get() = last\n\n    override fun contains(value: Char): Boolean = first <= value && value <= last\n\n    /** \n     * Checks whether the range is empty.\n     *\n     * The range is empty if its start value is greater than the end value.\n     */\n    override fun isEmpty(): Boolean = first > last\n\n
    override fun equals(other: Any?): Boolean =\n        other is CharRange && (isEmpty() && other.isEmpty() ||\n        first == other.first && last == other.last)\n\n    override fun hashCode(): Int =\n        if (isEmpty()) -1 else (31 * first.code + last.code)\n\n    override fun toString(): String = \"$first..$last\"\n\n    companion object {\n        /** An empty range of values of type Char. */\n        public val EMPTY: CharRange = CharRange(1.toChar(), 0.toChar())\n    }\n}\n\n/**\n * A range of values of type `Int`.\n */\npublic class IntRange(start: Int, endInclusive: Int) : IntProgression(start, endInclusive, 1), ClosedRange<Int> {\n    override val start: Int get() = first\n    override val endInclusive: Int get() = last\n\n    override fun contains(value: Int): Boolean = first <= value && value <= last\n\n    /** \n     * Checks whether the range is empty.\n     *\n     * The range is empty if its start value is greater than the end value.\n     */\n    override fun isEmpty():
Boolean = first > last\n\n    override fun equals(other: Any?): Boolean =\n        other is IntRange && (isEmpty() && other.isEmpty() ||\n        first == other.first && last == other.last)\n\n    override fun hashCode(): Int =\n        if (isEmpty()) -1 else (31 * first + last)\n\n    override fun toString(): String = \"$first..$last\"\n\n    companion object {\n        /** An empty range of values of type Int. */\n        public val EMPTY: IntRange = IntRange(1, 0)\n    }\n}\n\n/**\n * A range of values of type `Long`.\n */\npublic class LongRange(start: Long, endInclusive: Long) : LongProgression(start, endInclusive, 1), ClosedRange<Long> {\n    override val start: Long get() = first\n    override val endInclusive: Long get() = last\n\n    override fun contains(value: Long): Boolean = first <= value && value <= last\n\n    /** \n     * Checks whether the range is empty.\n     *\n     * The range is empty if its start value is greater than the end value.\n     */\n    override fun

```
 isEmpty(): Boolean = first > last\n\n    override fun equals(other: Any?): Boolean =\n        other is LongRange &&
(isEmpty() && other.isEmpty() ||\n        first == other.first && last == other.last)\n\n    override fun hashCode(): Int
=\n        if (isEmpty()) -1 else (31 * (first xor (first ushr 32)) + (last xor (last ushr 32))).toInt()\n\n    override fun
toString(): String = \"$first..$last\"\n\n    companion object {\n        /** An empty range of values of type Long. */\n
    public val EMPTY: LongRange = LongRange(1, 0)\n    }\n}\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"CollectionsKt\")\n@file:OptIn(kotlin.exper
imental.ExperimentalTypeInference::class)\n\npackage kotlin.collections\n\nimport kotlin.contracts.*\nimport
kotlin.random.Random\n\ninternal
 object EmptyIterator : ListIterator<Nothing> {\n    override fun hasNext(): Boolean = false\n    override fun
hasPrevious(): Boolean = false\n    override fun nextIndex(): Int = 0\n    override fun previousIndex(): Int = -1\n
override fun next(): Nothing = throw NoSuchElementException()\n    override fun previous(): Nothing = throw
NoSuchElementException()\n}\n\ninternal object EmptyList : List<Nothing>, Serializable, RandomAccess {\n
private const val serialVersionUID: Long = -7390468764508069838L\n\n    override fun equals(other: Any?):
Boolean = other is List<*> && other.isEmpty()\n    override fun hashCode(): Int = 1\n    override fun toString():
String = \"[]\"\n\n    override val size: Int get() = 0\n    override fun isEmpty(): Boolean = true\n    override fun
contains(element: Nothing): Boolean = false\n    override fun containsAll(elements: Collection<Nothing>): Boolean
= elements.isEmpty()\n\n    override fun get(index: Int): Nothing = throw IndexOutOfBoundsException(\"Empty
 list doesn't contain element at index $index.\")\n    override fun indexOf(element: Nothing): Int = -1\n    override
fun lastIndexOf(element: Nothing): Int = -1\n\n    override fun iterator(): Iterator<Nothing> = EmptyIterator\n
override fun listIterator(): ListIterator<Nothing> = EmptyIterator\n    override fun listIterator(index: Int):
ListIterator<Nothing> {\n        if (index != 0) throw IndexOutOfBoundsException(\"Index: $index\")\n        return
EmptyIterator\n    }\n\n    override fun subList(fromIndex: Int, toIndex: Int): List<Nothing> {\n        if (fromIndex
== 0 && toIndex == 0) return this\n        throw IndexOutOfBoundsException(\"fromIndex: $fromIndex, toIndex:
$toIndex\")\n    }\n\n    private fun readResolve(): Any = EmptyList\n}\n\ninternal fun <T> Array<out
T>.asCollection(): Collection<T> = ArrayAsCollection(this, isVarargs = false)\n\nprivate class
ArrayAsCollection<T>(val values: Array<out T>, val isVarargs: Boolean) : Collection<T> {\n
  override val size: Int get() = values.size\n    override fun isEmpty(): Boolean = values.isEmpty()\n    override fun
contains(element: T): Boolean = values.contains(element)\n    override fun containsAll(elements: Collection<T>):
Boolean = elements.all { contains(it) }\n    override fun iterator(): Iterator<T> = values.iterator()\n    // override
hidden toArray implementation to prevent copying of values array\n    public fun toArray(): Array<out Any?> =
values.copyToArrayOfAny(isVarargs)\n}\n\n/**\n * Returns an empty read-only list.  The returned list is
serializable (JVM).\n * @sample samples.collections.Collections.Lists.emptyReadOnlyList\n */\npublic fun <T>
emptyList(): List<T> = EmptyList\n\n/**\n * Returns a new read-only list of given elements.  The returned list is
serializable (JVM).\n * @sample samples.collections.Collections.Lists.readOnlyList\n */\npublic fun <T>
listOf(vararg elements: T): List<T> = if (elements.size > 0) elements.asList() else emptyList()\n\n/**\n * Returns
 an empty read-only list.  The returned list is serializable (JVM).\n * @sample
samples.collections.Collections.Lists.emptyReadOnlyList\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T>
listOf(): List<T> = emptyList()\n\n/**\n * Returns an empty new [MutableList].\n * @sample
samples.collections.Collections.Lists.emptyMutableList\n
*/\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> mutableListOf(): MutableList<T> =
ArrayList()\n\n/**\n * Returns an empty new [ArrayList].\n * @sample
samples.collections.Collections.Lists.emptyArrayList\n
*/\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> arrayListOf(): ArrayList<T> =
ArrayList()\n\n/**\n * Returns a new [MutableList] with the given elements.\n * @sample
samples.collections.Collections.Lists.mutableList\n */\npublic fun <T> mutableListOf(vararg elements: T):
MutableList<T> =\n    if (elements.size == 0) ArrayList() else ArrayList(ArrayAsCollection(elements, isVarargs =
```

true))\n\n/**\n
* Returns a new [ArrayList] with the given elements.\n * @sample samples.collections.Collections.Lists.arrayList\n
*/\npublic fun <T> arrayListOf(vararg elements: T): ArrayList<T> =\n    if (elements.size == 0) ArrayList() else
ArrayList(ArrayAsCollection(elements, isVarargs = true))\n\n/**\n * Returns a new read-only list either of single
given element, if it is not null, or empty list if the element is null. The returned list is serializable (JVM).\n *
@sample samples.collections.Collections.Lists.listOfNotNull\n */\npublic fun <T : Any> listOfNotNull(element:
T?): List<T> = if (element != null) listOf(element) else emptyList()\n\n/**\n * Returns a new read-only list only of
those given elements, that are not null.  The returned list is serializable (JVM).\n * @sample
samples.collections.Collections.Lists.listOfNotNull\n */\npublic fun <T : Any> listOfNotNull(vararg elements: T?):
List<T> = elements.filterNotNull()\n\n/**\n * Creates a new read-only list with the specified
[size], where each element is calculated by calling the specified\n * [init] function.\n *\n * The function [init] is
called for each list element sequentially starting from the first one.\n * It should return the value for a list element
given its index.\n *\n * @sample samples.collections.Collections.Lists.readOnlyListFromInitializer\n
*/\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> List(size: Int, init: (index: Int) -> T):
List<T> = MutableList(size, init)\n\n/**\n * Creates a new mutable list with the specified [size], where each element
is calculated by calling the specified\n * [init] function.\n *\n * The function [init] is called for each list element
sequentially starting from the first one.\n * It should return the value for a list element given its index.\n *\n *
@sample samples.collections.Collections.Lists.mutableListFromInitializer\n
*/\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> MutableList(size: Int, init:
(index: Int) -> T): MutableList<T> {\n    val list = ArrayList<T>(size)\n    repeat(size) { index ->
list.add(init(index)) }\n    return list\n}\n\n/**\n * Builds a new read-only [List] by populating a [MutableList] using
the given [builderAction]\n * and returning a read-only list with the same elements.\n *\n * The list passed as a
receiver to the [builderAction] is valid only inside that function.\n * Using it outside of the function produces an
unspecified behavior.\n *\n * The returned list is serializable (JVM).\n *\n * @sample
samples.collections.Builders.Lists.buildListSample\n
*/\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun <E> buildList(@BuilderInference builderAction: MutableList<E>.() -> Unit): List<E> {\n    contract {
callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n    return
buildListInternal(builderAction)\n}\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\ninter
nal
expect inline fun <E> buildListInternal(builderAction: MutableList<E>.() -> Unit): List<E>\n\n/**\n * Builds a
new read-only [List] by populating a [MutableList] using the given [builderAction]\n * and returning a read-only list
with the same elements.\n *\n * The list passed as a receiver to the [builderAction] is valid only inside that
function.\n * Using it outside of the function produces an unspecified behavior.\n *\n * The returned list is
serializable (JVM).\n *\n * [capacity] is used to hint the expected number of elements added in the
[builderAction].\n *\n * @throws IllegalArgumentException if the given [capacity] is negative.\n *\n * @sample
samples.collections.Builders.Lists.buildListSampleWithCapacity\n
*/\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun <E> buildList(capacity: Int, @BuilderInference builderAction: MutableList<E>.() -> Unit): List<E> {\n
contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE)
}\n    return buildListInternal(capacity,
builderAction)\n}\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\ninternal expect inline
fun <E> buildListInternal(capacity: Int, builderAction: MutableList<E>.() -> Unit): List<E>\n\n/**\n * Returns an
[IntRange] of the valid indices for this collection.\n * @sample
samples.collections.Collections.Collections.indicesOfCollection\n */\npublic val Collection<*>.indices: IntRange\n
get() = 0..size - 1\n\n/**\n * Returns the index of the last item in the list or -1 if the list is empty.\n *\n * @sample
samples.collections.Collections.Lists.lastIndexOfList\n */\npublic val <T> List<T>.lastIndex: Int\n    get() =
this.size - 1\n\n/**\n * Returns `true` if the collection is not empty.\n * @sample

samples.collections.Collections.Collections.collectionIsNotEmpty\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.isNotEmpty(): Boolean = !isEmpty()\n\n/**\n * Returns `true` if this nullable collection is either null or empty.\n * @sample samples.collections.Collections.Collections.collectionIsNullOrEmpty\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>?.isNullOrEmpty(): Boolean {\n    contract {\n        returns(false) implies (this@isNullOrEmpty != null)\n    }\n\n    return this == null || this.isEmpty()\n}\n\n/**\n * Returns this Collection if it's not `null` and the empty list otherwise.\n * @sample samples.collections.Collections.Collections.collectionOrEmpty\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>?.orEmpty(): Collection<T> = this ?: emptyList()\n\n/**\n * Returns this List if it's not `null` and the empty list otherwise.\n * @sample samples.collections.Collections.Lists.listOrEmpty\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>?.orEmpty(): List<T> = this ?: emptyList()\n\n/**\n * Returns this collection if it's not empty\n * or the result of calling [defaultValue] function if the collection is empty.\n *\n * @sample samples.collections.Collections.Collections.collectionIfEmpty\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun <C, R> C.ifEmpty(defaultValue: () -> R): R where C : Collection<*>, C : R =\n    if (isEmpty()) defaultValue() else this\n\n\n/**\n * Checks if all elements in the specified collection are contained in this collection.\n *\n * Allows to overcome type-safety restriction of `containsAll` that requires to pass a collection of type `Collection<E>`.\n * @sample samples.collections.Collections.Collections.collectionContainsAll\n */\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\") // false warning, extension takes precedence in some cases\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes T> Collection<T>.containsAll(elements: Collection<T>): Boolean = this.containsAll(elements)\n\n\n/**\n * Returns a new list with the elements of this list randomly shuffled\n * using the specified [random] instance as the source of randomness.\n */\n@SinceKotlin(\"1.3\")\npublic fun <T> Iterable<T>.shuffled(random: Random): List<T> = toMutableList().apply { shuffle(random) }\n\n\ninternal fun <T> List<T>.optimizeReadOnlyList() = when (size) {\n    0 -> emptyList()\n    1 -> listOf(this[0])\n    else -> this\n}\n\n/**\n * Searches this list or its range for the provided [element] using the binary search algorithm.\n * The list is expected to be sorted into ascending order according to the Comparable natural ordering of its elements,\n * otherwise the result is undefined.\n *\n * If the list contains multiple elements equal to the specified [element], there is no guarantee which one will be found.\n *\n * `null` value is considered to be less than any non-null value.\n *\n * @return the index of the element, if it is contained in the list within the specified range;\n * otherwise, the inverted insertion point `(-insertion point - 1)`.\n * The insertion point is defined as the index at which the element should be inserted,\n * so that the list (or the specified subrange of list) still remains sorted.\n * @sample samples.collections.Collections.Lists.binarySearchOnComparable\n * @sample samples.collections.Collections.Lists.binarySearchWithBoundaries\n */\npublic fun <T : Comparable<T>> List<T?>.binarySearch(element: T?, fromIndex: Int = 0, toIndex: Int = size): Int {\n    rangeCheck(size, fromIndex, toIndex)\n\n    var low = fromIndex\n    var high = toIndex - 1\n\n    while (low <= high) {\n        val mid = (low + high).ushr(1) // safe from overflows\n        val midVal = get(mid)\n        val cmp = compareValues(midVal, element)\n\n        if (cmp < 0)\n            low = mid + 1\n        else if (cmp > 0)\n            high = mid - 1\n        else\n            return mid // key found\n    }\n    return -(low + 1)  // key not found\n}\n\n/**\n * Searches this list or its range for the provided [element] using the binary search algorithm.\n * The list is expected to be sorted into ascending order according to the specified [comparator],\n * otherwise the result is undefined.\n *\n * If the list contains multiple elements equal to the specified [element], there is no guarantee which one will be found.\n *\n * `null` value is considered to be less than any non-null value.\n *\n * @return the index of the element, if it is contained in the list within the specified range;\n * otherwise, the inverted insertion point `(-insertion point - 1)`.\n * The insertion point is defined as the index at which the element should be inserted,\n * so that the list (or the specified subrange of list) still remains sorted according to the specified [comparator].\n * @sample samples.collections.Collections.Lists.binarySearchWithComparator\n */\npublic fun <T> List<T>.binarySearch(element: T, comparator: Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size): Int {\n

rangeCheck(size, fromIndex, toIndex)\n\n    var low = fromIndex\n    var high = toIndex - 1\n\n    while (low <= high) {\n        val mid = (low + high).ushr(1) // safe from overflows\n        val midVal = get(mid)\n        val cmp = comparator.compare(midVal, element)\n\n        if (cmp < 0)\n            low = mid + 1\n        else if (cmp > 0)\n            high = mid - 1\n        else\n            return mid // key found\n    }\n    return -(low + 1)  // key not found\n}\n\n/**\n * Searches this list or its range for an element having the key returned by the specified [selector] function\n * equal to the provided [key] value using the binary search algorithm.\n * The list is expected to be sorted into ascending order according to the Comparable natural ordering of keys of its elements.\n * otherwise the result is undefined.\n *\n * If the list contains multiple elements with the specified [key], there is no guarantee which one will be found.\n *\n * `null` value is considered to be less than any non-null value.\n *\n * @return the index of the element with the specified [key],
if it is contained in the list within the specified range;\n * otherwise, the inverted insertion point `(-insertion point - 1)`.\n * The insertion point is defined as the index at which the element should be inserted,\n * so that the list (or the specified subrange of list) still remains sorted.\n * @sample samples.collections.Collections.Lists.binarySearchByKey\n */\npublic inline fun <T, K : Comparable<K>> List<T>.binarySearchBy(\n    key: K?,\n    fromIndex: Int = 0,\n    toIndex: Int = size,\n    crossinline selector: (T) -> K?\n): Int =\n    binarySearch(fromIndex, toIndex) { compareValues(selector(it), key) }\n\n// do not introduce this overload --- too rare\n//public fun <T, K> List<T>.binarySearchBy(key: K, comparator: Comparator<K>, fromIndex: Int = 0, toIndex: Int = size(), selector: (T) -> K): Int =\n//        binarySearch(fromIndex, toIndex) { comparator.compare(selector(it), key) }\n\n\n/**\n * Searches this list or its range for an element for which the given [comparison]
function returns zero using the binary search algorithm.\n *\n * The list is expected to be sorted so that the signs of the [comparison] function's return values ascend on the list elements,\n * i.e. negative values come before zero and zeroes come before positive values.\n * Otherwise, the result is undefined.\n *\n * If the list contains multiple elements for which [comparison] returns zero, there is no guarantee which one will be found.\n *\n * @param comparison function that returns zero when called on the list element being searched.\n * On the elements coming before the target element, the function must return negative values;\n * on the elements coming after the target element, the function must return positive values.\n *\n * @return the index of the found element, if it is contained in the list within the specified range;\n * otherwise, the inverted insertion point `(-insertion point - 1)`.\n * The insertion point is defined as the index at which the element should be inserted,\n
* so that the list (or the specified subrange of list) still remains sorted.\n * @sample samples.collections.Collections.Lists.binarySearchWithComparisonFunction\n */\npublic fun <T> List<T>.binarySearch(fromIndex: Int = 0, toIndex: Int = size, comparison: (T) -> Int): Int {\n    rangeCheck(size, fromIndex, toIndex)\n\n    var low = fromIndex\n    var high = toIndex - 1\n\n    while (low <= high) {\n        val mid = (low + high).ushr(1) // safe from overflows\n        val midVal = get(mid)\n        val cmp = comparison(midVal)\n\n        if (cmp < 0)\n            low = mid + 1\n        else if (cmp > 0)\n            high = mid - 1\n        else\n            return mid // key found\n    }\n    return -(low + 1)  // key not found\n}\n\n/**\n * Checks that `from` and `to` are in\n * the range of [0..size] and throws an appropriate exception, if they aren't.\n */\nprivate fun rangeCheck(size: Int, fromIndex: Int, toIndex: Int) {\n    when {\n        fromIndex > toIndex -> throw IllegalArgumentException(\"fromIndex
($fromIndex) is greater than toIndex ($toIndex).\")\n        fromIndex < 0 -> throw IndexOutOfBoundsException(\"fromIndex ($fromIndex) is less than zero.\")\n        toIndex > size -> throw IndexOutOfBoundsException(\"toIndex ($toIndex) is greater than size ($size).\")\n    }\n}\n\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\ninternal expect fun checkIndexOverflow(index: Int): Int\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\ninternal expect fun checkCountOverflow(count: Int): Int\n\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\ninternal fun throwIndexOverflow() { throw ArithmeticException(\"Index overflow has happened.\") }\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\ninternal fun throwCountOverflow() { throw ArithmeticException(\"Count overflow has happened.\") }\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed

by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"MapsKt\")\n@file:OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n\npackage kotlin.collections\n\nimport kotlin.contracts.*\n\nprivate object EmptyMap : Map<Any?, Nothing>, Serializable {\n private const val serialVersionUID: Long = 8246714829545688274\n\n override fun equals(other: Any?): Boolean = other is Map<*, *> && other.isEmpty()\n override fun hashCode(): Int = 0\n override fun toString(): String = \"{}\"\n\n override val size: Int get() = 0\n override fun isEmpty(): Boolean = true\n\n override fun containsKey(key: Any?): Boolean = false\n override fun containsValue(value: Nothing): Boolean = false\n override fun get(key: Any?): Nothing? = null\n override val entries: Set<Map.Entry<Any?, Nothing>> get() = EmptySet\n override val keys: Set<Any?> get() = EmptySet\n override val values: Collection<Nothing> get() = EmptyList\n\n private fun readResolve(): Any
= EmptyMap\n}\n\n/**\n * Returns an empty read-only map of specified type.\n *\n * The returned map is serializable (JVM).\n * @sample samples.collections.Maps.Instantiation.emptyReadOnlyMap\n */\npublic fun <K, V> emptyMap(): Map<K, V> = @Suppress(\"UNCHECKED_CAST\") (EmptyMap as Map<K, V>)\n\n/**\n * Returns a new read-only map with the specified contents, given as a list of pairs\n * where the first value is the key and the second is the value.\n *\n * If multiple pairs have the same key, the resulting map will contain the value from the last of those pairs.\n *\n * Entries of the map are iterated in the order they were specified.\n *\n * The returned map is serializable (JVM).\n *\n * @sample samples.collections.Maps.Instantiation.mapFromPairs\n */\npublic fun <K, V> mapOf(vararg pairs: Pair<K, V>): Map<K, V> =\n if (pairs.size > 0) pairs.toMap(LinkedHashMap(mapCapacity(pairs.size))) else emptyMap()\n\n/**\n * Returns an empty read-only map.\n *\n * The returned map is serializable
(JVM).\n * @sample samples.collections.Maps.Instantiation.emptyReadOnlyMap\n */\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> mapOf(): Map<K, V> = emptyMap()\n\n/**\n * Returns an empty new [MutableMap].\n *\n * The returned map preserves the entry iteration order.\n * @sample samples.collections.Maps.Instantiation.emptyMutableMap\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> mutableMapOf(): MutableMap<K, V> = LinkedHashMap()\n\n/**\n * Returns a new [MutableMap] with the specified contents, given as a list of pairs\n * where the first component is the key and the second is the value.\n *\n * If multiple pairs have the same key, the resulting map will contain the value from the last of those pairs.\n *\n * Entries of the map are iterated in the order they were specified.\n *\n * @sample samples.collections.Maps.Instantiation.mutableMapFromPairs\n * @sample samples.collections.Maps.Instantiation.emptyMutableMap\n */\npublic fun <K, V>
mutableMapOf(vararg pairs: Pair<K, V>): MutableMap<K, V> =\n LinkedHashMap<K, V>(mapCapacity(pairs.size)).apply { putAll(pairs) }\n\n/**\n * Returns an empty new [HashMap].\n *\n * @sample samples.collections.Maps.Instantiation.emptyHashMap\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> hashMapOf(): HashMap<K, V> = HashMap<K, V>()\n\n/**\n * Returns a new [HashMap] with the specified contents, given as a list of pairs\n * where the first component is the key and the second is the value.\n *\n * @sample samples.collections.Maps.Instantiation.hashMapFromPairs\n */\npublic fun <K, V> hashMapOf(vararg pairs: Pair<K, V>): HashMap<K, V> = HashMap<K, V>(mapCapacity(pairs.size)).apply { putAll(pairs) }\n\n/**\n * Returns an empty new [LinkedHashMap].\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> linkedMapOf(): LinkedHashMap<K, V> = LinkedHashMap<K, V>()\n\n/**\n * Returns a new [LinkedHashMap] with the specified contents,
given as a list of pairs\n * where the first component is the key and the second is the value.\n *\n * If multiple pairs have the same key, the resulting map will contain the value from the last of those pairs.\n *\n * Entries of the map are iterated in the order they were specified.\n *\n * @sample samples.collections.Maps.Instantiation.linkedMapFromPairs\n */\npublic fun <K, V> linkedMapOf(vararg pairs: Pair<K, V>): LinkedHashMap<K, V> = pairs.toMap(LinkedHashMap(mapCapacity(pairs.size)))\n\n/**\n * Builds

a new read-only [Map] by populating a [MutableMap] using the given [builderAction]\n * and returning a read-only map with the same key-value pairs.\n *\n * The map passed as a receiver to the [builderAction] is valid only inside that function.\n * Using it outside of the function produces an unspecified behavior.\n *\n * Entries of the map are iterated in the order they were added by the [builderAction].\n *\n * The returned map is serializable (JVM).\n *\n * @sample samples.collections.Builders.Maps.buildMapSample\n */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> buildMap(@BuilderInference builderAction: MutableMap<K, V>.() -> Unit): Map<K, V> {\n contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n return buildMapInternal(builderAction)\n}\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\ninternal expect inline fun <K, V> buildMapInternal(builderAction: MutableMap<K, V>.() -> Unit): Map<K, V>\n\n/**\n * Builds a new read-only [Map] by populating a [MutableMap] using the given [builderAction]\n * and returning a read-only map with the same key-value pairs.\n *\n * The map passed as a receiver to the [builderAction] is valid only inside that function.\n * Using it outside of the function produces an unspecified behavior.\n *\n * [capacity] is used to hint the expected number of pairs added in the [builderAction].\n *\n * Entries of the
map are iterated in the order they were added by the [builderAction].\n *\n * The returned map is serializable (JVM).\n *\n * @throws IllegalArgumentException if the given [capacity] is negative.\n *\n * @sample samples.collections.Builders.Maps.buildMapSample\n */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> buildMap(capacity: Int, @BuilderInference builderAction: MutableMap<K, V>.() -> Unit): Map<K, V> {\n contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n return buildMapInternal(capacity,
builderAction)\n}\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\ninternal expect inline fun <K, V> buildMapInternal(capacity: Int, builderAction: MutableMap<K, V>.() -> Unit): Map<K, V>\n\n/**\n * Calculate the initial capacity of a map.\n */\n@PublishedApi\ninternal expect fun mapCapacity(expectedSize: Int): Int\n\n/**\n * Returns `true` if this map is not empty.\n *
@sample samples.collections.Maps.Usage.mapIsNotEmpty\n */\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.isNotEmpty(): Boolean = !isEmpty()\n\n/**\n * Returns `true` if this nullable map is either null or empty.\n * @sample samples.collections.Maps.Usage.mapIsNullOrEmpty\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>?.isNullOrEmpty(): Boolean {\n contract {\n returns(false) implies (this@isNullOrEmpty != null)\n }\n\n return this == null || isEmpty()\n}\n\n/**\n * Returns the [Map] if its not `null`, or the empty [Map] otherwise.\n *\n * @sample samples.collections.Maps.Usage.mapOrEmpty\n */\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<K, V>?.orEmpty(): Map<K, V> = this ?: emptyMap()\n\n/**\n * Returns this map if it's not empty\n * or the result of calling [defaultValue] function if the map is empty.\n *\n * @sample samples.collections.Maps.Usage.mapIfEmpty\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic
inline fun <M, R> M.ifEmpty(defaultValue: () -> R): R where M : Map<*, *>, M : R =\n if (isEmpty()) defaultValue() else this\n\n/**\n * Checks if the map contains the given key.\n *\n * This method allows to use the `x in map` syntax for checking whether an object is contained in the map.\n *\n * @sample samples.collections.Maps.Usage.containsKey\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <@kotlin.internal.OnlyInputTypes K, V> Map<out K, V>.contains(key: K): Boolean = containsKey(key)\n\n/**\n * Returns the value corresponding to the given [key], or `null` if such a key is not present in the map.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <@kotlin.internal.OnlyInputTypes K, V> Map<out K, V>.get(key: K): V? =\n @Suppress(\"UNCHECKED_CAST\") (this as Map<K, V>).get(key)\n\n/**\n * Allows to use the index operator for storing values in a mutable map.\n */\n@kotlin.internal.InlineOnly\npublic inline operator
fun <K, V> MutableMap<K, V>.set(key: K, value: V): Unit {\n put(key, value)\n}\n\n/**\n * Returns `true` if the map contains the specified [key].\n *\n * Allows to overcome type-safety restriction of `containsKey` that requires

to pass a key of type `K`.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes K> Map<out K, *>.containsKey(key: K): Boolean =\n @Suppress(\"UNCHECKED_CAST\") (this as Map<K, *>).containsKey(key)\n\n/**\n * Returns `true` if the map maps one or more keys to the specified [value].\n *\n * Allows to overcome type-safety restriction of `containsValue` that requires to pass a value of type `V`.\n *\n * @sample samples.collections.Maps.Usage.containsValue\n */\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\") // false warning, extension takes precedence in some cases\n@kotlin.internal.InlineOnly\npublic inline fun <K, @kotlin.internal.OnlyInputTypes V> Map<K, V>.containsValue(value: V): Boolean = this.containsValue(value)\n\n\n/**\n * Removes the specified key and its corresponding value from this map.\n *\n * @return the previous value associated with the key, or `null` if the key was not present in the map.\n\n * Allows to overcome type-safety restriction of `remove` that requires to pass a key of type `K`.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes K, V> MutableMap<out K, V>.remove(key: K): V? =\n @Suppress(\"UNCHECKED_CAST\") (this as MutableMap<K, V>).remove(key)\n\n/**\n * Returns the key component of the map entry.\n *\n * This method allows to use destructuring declarations when working with maps, for example:\n * ```\n * for ((key, value) in map) {\n * // do something with the key and the value\n * }\n * ```\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> Map.Entry<K, V>.component1(): K = key\n\n/**\n * Returns the value component of the map entry.\n *\n * This method allows to use destructuring declarations when working with maps, for example:\n * ```\n * for ((key, value) in map) {\n * // do something with the key and the value\n * }\n * ```\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> Map.Entry<K, V>.component2(): V = value\n\n/**\n * Converts entry to [Pair] with key being first component and value being second.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map.Entry<K, V>.toPair(): Pair<K, V> = Pair(key, value)\n\n/**\n * Returns the value for the given key, or the result of the [defaultValue] function if there was no entry for the given key.\n *\n * @sample samples.collections.Maps.Usage.getOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<K, V>.getOrElse(key: K, defaultValue: () -> V): V = get(key) ?: defaultValue()\n\n\ninternal inline fun <K, V> Map<K, V>.getOrElseNullable(key: K, defaultValue: () -> V): V {\n val value = get(key)\n if (value == null && !containsKey(key)) {\n return defaultValue()\n } else {\n @Suppress(\"UNCHECKED_CAST\")\n return value as V\n }\n}\n\n/**\n * Returns the value for the given [key] or throws an exception if there is no such key in the map.\n *\n * If the map was created by [withDefault], resorts to its `defaultValue` provider function\n * instead of throwing an exception.\n *\n * @throws NoSuchElementException when the map doesn't contain a value for the specified key and\n * no implicit default value was provided for that map.\n */\n@SinceKotlin(\"1.1\")\npublic fun <K, V> Map<K, V>.getValue(key: K): V = getOrImplicitDefault(key)\n\n/**\n * Returns the value for the given key. If the key is not found in the map, calls the [defaultValue] function,\n * puts its result into the map under the given key and returns it.\n *\n * Note that the operation is not guaranteed to be atomic if the map is being modified concurrently.\n *\n * @sample samples.collections.Maps.Usage.getOrPut\n */\npublic inline fun <K, V> MutableMap<K, V>.getOrPut(key: K, defaultValue: () -> V): V {\n val value = get(key)\n return if (value == null) {\n val answer = defaultValue()\n put(key, answer)\n answer\n } else {\n value\n }\n}\n\n/**\n * Returns an [Iterator] over the entries in the [Map].\n *\n * @sample samples.collections.Maps.Usage.forOverEntries\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> Map<out K, V>.iterator(): Iterator<Map.Entry<K, V>> = entries.iterator()\n\n/**\n * Returns a [MutableIterator] over the mutable entries in the [MutableMap].\n *\n */\n@kotlin.jvm.JvmName(\"mutableIterator\")\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<K, V>.iterator(): MutableIterator<MutableMap.MutableEntry<K, V>> = entries.iterator()\n\n/**\n * Populates the given [destination] map with entries having the keys of this map and the values obtained\n * by applying the [transform] function to each entry in this [Map].\n */\npublic inline fun <K, V, R, M : MutableMap<in K, in R>> Map<out

K, V>.mapValuesTo(destination: M, transform: (Map.Entry<K, V>) -> R): M {\n return entries.associateByTo(destination, { it.key }, transform)\n}\n\n/**\n * Populates the given [destination] map with entries having the keys obtained\n * by applying the [transform] function to each entry in this [Map] and the values of this map.\n *\n * In case if any two entries are mapped to the equal keys, the value of the latter one will overwrite\n * the value associated with the former one.\n */\npublic inline fun <K, V, R, M : MutableMap<in R, in V>> Map<out K, V>.mapKeysTo(destination: M, transform: (Map.Entry<K, V>) -> R): M {\n return entries.associateByTo(destination, transform, { it.value })\n}\n\n/**\n * Puts all the given [pairs] into this [MutableMap] with the first component in the pair being the key and the second the value.\n */\npublic fun <K, V> MutableMap<in K, in V>.putAll(pairs: Array<out Pair<K, V>>): Unit {\n for ((key, value) in pairs) {\n put(key, value)\n }\n}\n\n/**\n * Puts all the elements of the given collection into this [MutableMap] with the first component in the pair being the key and the second the value.\n */\npublic fun <K, V> MutableMap<in K, in V>.putAll(pairs: Iterable<Pair<K, V>>): Unit {\n for ((key, value) in pairs) {\n put(key, value)\n }\n}\n\n/**\n * Puts all the elements of the given sequence into this [MutableMap] with the first component in the pair being the key and the second the value.\n */\npublic fun <K, V> MutableMap<in K, in V>.putAll(pairs: Sequence<Pair<K, V>>): Unit {\n for ((key, value) in pairs) {\n put(key, value)\n }\n}\n\n/**\n * Returns a new map with entries having the keys of this map and the values obtained by applying the [transform]\n * function to each entry in this [Map].\n *\n * The returned map preserves the entry iteration order of the original map.\n *\n * @sample samples.collections.Maps.Transformations.mapValues\n */\npublic inline fun <K, V, R> Map<out K, V>.mapValues(transform:
(Map.Entry<K, V>) -> R): Map<K, R> {\n return mapValuesTo(LinkedHashMap<K, R>(mapCapacity(size)), transform) // .optimizeReadOnlyMap()\n}\n\n/**\n * Returns a new Map with entries having the keys obtained by applying the [transform] function to each entry in this\n * [Map] and the values of this map.\n *\n * In case if any two entries are mapped to the equal keys, the value of the latter one will overwrite\n * the value associated with the former one.\n *\n * The returned map preserves the entry iteration order of the original map.\n *\n * @sample samples.collections.Maps.Transformations.mapKeys\n */\npublic inline fun <K, V, R> Map<out K, V>.mapKeys(transform: (Map.Entry<K, V>) -> R): Map<R, V> {\n return mapKeysTo(LinkedHashMap<R, V>(mapCapacity(size)), transform) // .optimizeReadOnlyMap()\n}\n\n/**\n * Returns a map containing all key-value pairs with keys matching the given [predicate].\n *\n * The returned map preserves the entry iteration order of the original
map.\n * @sample samples.collections.Maps.Filtering.filterKeys\n */\npublic inline fun <K, V> Map<out K, V>.filterKeys(predicate: (K) -> Boolean): Map<K, V> {\n val result = LinkedHashMap<K, V>()\n for (entry in this) {\n if (predicate(entry.key)) {\n result.put(entry.key, entry.value)\n }\n }\n return result\n}\n\n/**\n * Returns a map containing all key-value pairs with values matching the given [predicate].\n *\n * The returned map preserves the entry iteration order of the original map.\n * @sample samples.collections.Maps.Filtering.filterValues\n */\npublic inline fun <K, V> Map<out K, V>.filterValues(predicate: (V) -> Boolean): Map<K, V> {\n val result = LinkedHashMap<K, V>()\n for (entry in this) {\n if (predicate(entry.value)) {\n result.put(entry.key, entry.value)\n }\n }\n return result\n}\n\n/**\n * Appends all entries matching the given [predicate] into the mutable map given as [destination]
parameter.\n *\n * @return the destination map.\n * @sample samples.collections.Maps.Filtering.filterTo\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> Map<out K, V>.filterTo(destination: M, predicate: (Map.Entry<K, V>) -> Boolean): M {\n for (element in this) {\n if (predicate(element)) {\n destination.put(element.key, element.value)\n }\n }\n return destination\n}\n\n/**\n * Returns a new map containing all key-value pairs matching the given [predicate].\n *\n * The returned map preserves the entry iteration order of the original map.\n * @sample samples.collections.Maps.Filtering.filter\n */\npublic inline fun <K, V> Map<out K, V>.filter(predicate: (Map.Entry<K, V>) -> Boolean): Map<K, V> {\n return filterTo(LinkedHashMap<K, V>(), predicate)\n}\n\n/**\n * Appends all entries not matching the given [predicate] into the given [destination].\n *\n * @return the destination map.\n * @sample

samples.collections.Maps.Filtering.filterNotTo\n
*/\npublic inline fun <K, V, M : MutableMap<in K, in V>> Map<out K, V>.filterNotTo(destination: M, predicate: (Map.Entry<K, V>) -> Boolean): M {\n for (element in this) {\n if (!predicate(element)) {\n destination.put(element.key, element.value)\n }\n }\n return destination\n}\n\n/**\n * Returns a new map containing all key-value pairs not matching the given [predicate].\n *\n * The returned map preserves the entry iteration order of the original map.\n * @sample samples.collections.Maps.Filtering.filterNot\n */\npublic inline fun <K, V> Map<out K, V>.filterNot(predicate: (Map.Entry<K, V>) -> Boolean): Map<K, V> {\n return filterNotTo(LinkedHashMap<K, V>(), predicate)\n}\n\n/**\n * Returns a new map containing all key-value pairs from the given collection of pairs.\n *\n * The returned map preserves the entry iteration order of the original collection.\n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic
fun <K, V> Iterable<Pair<K, V>>.toMap(): Map<K, V> {\n if (this is Collection) {\n return when (size) {\n 0 -> emptyMap()\n 1 -> mapOf(if (this is List) this[0] else iterator().next())\n else -> toMap(LinkedHashMap<K, V>(mapCapacity(size)))\n }\n }\n return toMap(LinkedHashMap<K, V>()).optimizeReadOnlyMap()\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs from the given collection of pairs.\n */\npublic fun <K, V, M : MutableMap<in K, in V>> Iterable<Pair<K, V>>.toMap(destination: M): M =\n destination.apply { putAll(this@toMap) }\n\n/**\n * Returns a new map containing all key-value pairs from the given array of pairs.\n *\n * The returned map preserves the entry iteration order of the original array.\n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic fun <K, V> Array<out Pair<K, V>>.toMap(): Map<K, V> = when (size) {\n 0 -> emptyMap()\n 1 -> mapOf(this[0])\n else -> toMap(LinkedHashMap<K, V>(mapCapacity(size)))\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs from the given array of pairs.\n */\npublic fun <K, V, M : MutableMap<in K, in V>> Array<out Pair<K, V>>.toMap(destination: M): M =\n destination.apply { putAll(this@toMap) }\n\n/**\n * Returns a new map containing all key-value pairs from the given sequence of pairs.\n *\n * The returned map preserves the entry iteration order of the original sequence.\n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic fun <K, V> Sequence<Pair<K, V>>.toMap(): Map<K, V> = toMap(LinkedHashMap<K, V>()).optimizeReadOnlyMap()\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs from the given sequence of pairs.\n */\npublic fun <K, V, M : MutableMap<in K, in V>> Sequence<Pair<K, V>>.toMap(destination: M): M =\n destination.apply { putAll(this@toMap) }\n\n/**\n
* Returns a new read-only map containing all key-value pairs from the original map.\n *\n * The returned map preserves the entry iteration order of the original map.\n */\n@SinceKotlin(\"1.1\")\npublic fun <K, V> Map<out K, V>.toMap(): Map<K, V> = when (size) {\n 0 -> emptyMap()\n 1 -> toSingletonMap()\n else -> toMutableMap()\n}\n\n/**\n * Returns a new mutable map containing all key-value pairs from the original map.\n *\n * The returned map preserves the entry iteration order of the original map.\n */\n@SinceKotlin(\"1.1\")\npublic fun <K, V> Map<out K, V>.toMutableMap(): MutableMap<K, V> = LinkedHashMap(this)\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs from the given map.\n */\n@SinceKotlin(\"1.1\")\npublic fun <K, V, M : MutableMap<in K, in V>> Map<out K, V>.toMap(destination: M): M =\n destination.apply { putAll(this@toMap) }\n\n/**\n * Creates a new read-only map by replacing or adding an entry to this map from a given key-value
[pair].\n *\n * The returned map preserves the entry iteration order of the original map.\n * The [pair] is iterated in the end if it has a unique key.\n */\npublic operator fun <K, V> Map<out K, V>.plus(pair: Pair<K, V>): Map<K, V> =\n if (this.isEmpty()) mapOf(pair) else LinkedHashMap(this).apply { put(pair.first, pair.second) }\n\n/**\n * Creates a new read-only map by replacing or adding entries to this map from a given collection of key-value [pairs].\n *\n * The returned map preserves the entry iteration order of the original map.\n * Those [pairs] with unique keys are iterated in the end in the order of [pairs] collection.\n */\npublic operator fun <K, V> Map<out K, V>.plus(pairs: Iterable<Pair<K, V>>): Map<K, V> =\n if (this.isEmpty()) pairs.toMap() else LinkedHashMap(this).apply { putAll(pairs) }\n\n/**\n * Creates a new read-only map by replacing or adding entries to this map from a given array of key-value [pairs].\n *\n * The returned map preserves the entry iteration

order of the original map.\n * Those [pairs] with unique keys are iterated in the end in the order of [pairs] array.\n */\npublic operator fun <K, V> Map<out K, V>.plus(pairs: Array<out Pair<K, V>>): Map<K, V> =\n    if (this.isEmpty()) pairs.toMap() else LinkedHashMap(this).apply { putAll(pairs) }\n\n/**\n * Creates a new read-only map by replacing or adding entries to this map from a given sequence of key-value [pairs].\n *\n * The returned map preserves the entry iteration order of the original map.\n * Those [pairs] with unique keys are iterated in the end in the order of [pairs] sequence.\n */\npublic operator fun <K, V> Map<out K, V>.plus(pairs: Sequence<Pair<K, V>>): Map<K, V> =\n    LinkedHashMap(this).apply { putAll(pairs) }.optimizeReadOnlyMap()\n\n/**\n * Creates a new read-only map by replacing or adding entries to this map from another [map].\n *\n * The returned map preserves the entry iteration order of the original map.\n * Those entries of another [map] that are missing
in this map are iterated in the end in the order of that [map].\n */\npublic operator fun <K, V> Map<out K, V>.plus(map: Map<out K, V>): Map<K, V> =\n    LinkedHashMap(this).apply { putAll(map) }\n\n\n/**\n * Appends or replaces the given [pair] in this mutable map.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pair: Pair<K, V>) {\n    put(pair.first, pair.second)\n}\n\n/**\n * Appends or replaces all pairs from the given collection of [pairs] in this mutable map.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs: Iterable<Pair<K, V>>) {\n    putAll(pairs)\n}\n\n/**\n * Appends or replaces all pairs from the given array of [pairs] in this mutable map.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs: Array<out Pair<K, V>>) {\n    putAll(pairs)\n}\n\n/**\n * Appends or replaces all pairs from the given sequence
of [pairs] in this mutable map.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs: Sequence<Pair<K, V>>) {\n    putAll(pairs)\n}\n\n/**\n * Appends or replaces all entries from the given [map] in this mutable map.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(map: Map<K, V>) {\n    putAll(map)\n}\n\n/**\n * Returns a map containing all entries of the original map except the entry with the given [key].\n *\n * The returned map preserves the entry iteration order of the original map.\n */\n@SinceKotlin(\"1.1\")\npublic operator fun <K, V> Map<out K, V>.minus(key: K): Map<K, V> =\n    this.toMutableMap().apply { minusAssign(key) }.optimizeReadOnlyMap()\n\n/**\n * Returns a map containing all entries of the original map except those entries\n * the keys of which are contained in the given [keys] collection.\n *\n * The returned map preserves the entry iteration order of the
original map.\n */\n@SinceKotlin(\"1.1\")\npublic operator fun <K, V> Map<out K, V>.minus(keys: Iterable<K>): Map<K, V> =\n    this.toMutableMap().apply { minusAssign(keys) }.optimizeReadOnlyMap()\n\n/**\n * Returns a map containing all entries of the original map except those entries\n * the keys of which are contained in the given [keys] array.\n *\n * The returned map preserves the entry iteration order of the original map.\n */\n@SinceKotlin(\"1.1\")\npublic operator fun <K, V> Map<out K, V>.minus(keys: Array<out K>): Map<K, V> =\n    this.toMutableMap().apply { minusAssign(keys) }.optimizeReadOnlyMap()\n\n/**\n * Returns a map containing all entries of the original map except those entries\n * the keys of which are contained in the given [keys] sequence.\n *\n * The returned map preserves the entry iteration order of the original map.\n */\n@SinceKotlin(\"1.1\")\npublic operator fun <K, V> Map<out K, V>.minus(keys: Sequence<K>): Map<K, V> =\n    this.toMutableMap().apply { minusAssign(keys)
}.optimizeReadOnlyMap()\n\n/**\n * Removes the entry with the given [key] from this mutable map.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<K, V>.minusAssign(key: K) {\n    remove(key)\n}\n\n/**\n * Removes all entries the keys of which are contained in the given [keys] collection from this mutable map.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<K, V>.minusAssign(keys: Iterable<K>) {\n    this.keys.removeAll(keys)\n}\n\n/**\n * Removes all entries the keys of which are contained in the given [keys] array from this mutable map.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<K, V>.minusAssign(keys: Array<out K>) {\n    this.keys.removeAll(keys)\n}\n\n/**\n * Removes all entries from the

keys of which are contained in the given [keys] sequence from this mutable map.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<K, V>.minusAssign(keys: Sequence<K>) {\n this.keys.removeAll(keys)\n}\n\n\n// do not expose for now @PublishedApi\ninternal fun <K, V> Map<K, V>.optimizeReadOnlyMap() = when (size) {\n 0 -> emptyMap()\n 1 -> toSingletonMapOrSelf()\n else -> this\n}\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"SetsKt\")\n@file:OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n\npackage kotlin.collections\n\nimport kotlin.contracts.*\n\ninternal object EmptySet : Set<Nothing>, Serializable {\n private const val serialVersionUID: Long = 3406603774387020532\n\n override fun equals(other: Any?): Boolean = other is Set<*> && other.isEmpty()\n override fun hashCode(): Int = 0\n override fun toString(): String = \"[]\"\n\n override val size: Int get() = 0\n override fun isEmpty(): Boolean = true\n override fun contains(element: Nothing): Boolean = false\n override fun containsAll(elements: Collection<Nothing>): Boolean = elements.isEmpty()\n\n override fun iterator(): Iterator<Nothing> = EmptyIterator\n\n private fun readResolve(): Any = EmptySet\n}\n\n\n/**\n * Returns an empty read-only set. The returned set is serializable (JVM).\n * @sample samples.collections.Collections.Sets.emptyReadOnlySet\n */\npublic fun <T> emptySet(): Set<T> = EmptySet\n\n/**\n * Returns a new read-only set with the given elements.\n * Elements of the set are iterated in the order they were specified.\n * The returned set is serializable (JVM).\n * @sample samples.collections.Collections.Sets.readOnlySet\n */\npublic fun <T> setOf(vararg elements: T): Set<T> = if (elements.size > 0) elements.toSet() else emptySet()\n\n/**\n * Returns an empty read-only set. The returned set is serializable (JVM).\n * @sample samples.collections.Collections.Sets.emptyReadOnlySet\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> setOf(): Set<T> = emptySet()\n\n/**\n * Returns an empty new [MutableSet].\n *\n * The returned set preserves the element iteration order.\n * @sample samples.collections.Collections.Sets.emptyMutableSet\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> mutableSetOf(): MutableSet<T> = LinkedHashSet()\n\n/**\n * Returns a new [MutableSet] with the given elements.\n * Elements of the set are iterated in the order they were specified.\n * @sample samples.collections.Collections.Sets.mutableSet\n */\npublic fun <T> mutableSetOf(vararg elements: T): MutableSet<T> = elements.toCollection(LinkedHashSet(mapCapacity(elements.size)))\n\n/** Returns an empty new [HashSet]. */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> hashSetOf(): HashSet<T> = HashSet()\n\n/** Returns a new [HashSet] with the given elements. */\npublic fun <T> hashSetOf(vararg elements: T): HashSet<T> = elements.toCollection(HashSet(mapCapacity(elements.size)))\n\n/**\n * Returns an empty new [LinkedHashSet].\n * @sample samples.collections.Collections.Sets.emptyLinkedHashSet\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> linkedSetOf(): LinkedHashSet<T> = LinkedHashSet()\n\n/**\n * Returns a new [LinkedHashSet] with the given elements.\n * Elements of the set are iterated in the order they were specified.\n * @sample samples.collections.Collections.Sets.linkedHashSet\n */\npublic fun <T> linkedSetOf(vararg elements: T): LinkedHashSet<T> = elements.toCollection(LinkedHashSet(mapCapacity(elements.size)))\n\n/**\n * Returns a new read-only set either with single given element, if it is not null, or empty set if the element is null.\n * The returned set is serializable (JVM).\n * @sample samples.collections.Collections.Sets.setOfNotNull\n */\n@SinceKotlin(\"1.4\")\npublic fun <T : Any> setOfNotNull(element: T?): Set<T> = if (element != null) setOf(element) else emptySet()\n\n/**\n * Returns a new read-only set only with those given elements, that are not null.\n * Elements of the set are iterated in the order they were specified.\n * The returned set is serializable (JVM).\n * @sample samples.collections.Collections.Sets.setOfNotNull\n */\n@SinceKotlin(\"1.4\")\npublic fun <T : Any> setOfNotNull(vararg elements: T?): Set<T> {\n return elements.filterNotNullTo(LinkedHashSet())\n}\n\n/**\n * Builds a new read-only [Set] by populating a [MutableSet] using the given [builderAction]\n * and returning a read-

only set with the same elements.\n *\n * The set passed as a receiver to the [builderAction] is valid only inside that function.\n * Using it outside of the function produces an unspecified behavior.\n *\n * Elements of the set are iterated in the order they were added by the [builderAction].\n *\n * The returned set is serializable (JVM).\n *\n * @sample samples.collections.Builders.Sets.buildSetSample\n */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <E> buildSet(@BuilderInference builderAction: MutableSet<E>.() -> Unit): Set<E> {\n contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n return buildSetInternal(builderAction)\n}\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\ninternal expect inline fun <E> buildSetInternal(builderAction: MutableSet<E>.() -> Unit): Set<E>\n\n/**\n * Builds a new read-only [Set] by populating a [MutableSet] using the given [builderAction]\n * and returning a read-only set with the same elements.\n *\n * The set passed as a receiver to the [builderAction] is valid only inside that function.\n * Using it outside of the function produces an unspecified behavior.\n *\n * [capacity] is used to hint the expected number of elements added in the [builderAction].\n *\n * Elements of the set are iterated in the order they were added by the [builderAction].\n *\n * The returned set is serializable (JVM).\n *\n * @throws IllegalArgumentException if the given [capacity] is negative.\n *\n * @sample samples.collections.Builders.Sets.buildSetSample\n */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <E> buildSet(capacity: Int, @BuilderInference builderAction: MutableSet<E>.() -> Unit): Set<E> {\n contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n return buildSetInternal(capacity, builderAction)\n}\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\ninternal expect inline fun <E> buildSetInternal(capacity: Int, builderAction: MutableSet<E>.() -> Unit): Set<E>\n\n\n/** Returns this Set if it's not `null` and the empty set otherwise. */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Set<T>?.orEmpty(): Set<T> = this ?: emptySet()\n\ninternal fun <T> Set<T>.optimizeReadOnlySet() = when (size) {\n 0 -> emptySet()\n 1 -> setOf(iterator().next())\n else -> this\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"StringsKt\")\n@file:Suppress(\"PLATFORM_CLASS_MAPPED_TO_KOTLIN\")\n\npackage kotlin.text\n\n/**\n * Parses the string as a signed [Byte] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n */\n@SinceKotlin(\"1.1\")\npublic fun String.toByteOrNull(): Byte? = toByteOrNull(radix = 10)\n\n/**\n * Parses the string as a signed [Byte] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\n@SinceKotlin(\"1.1\")\npublic fun String.toByteOrNull(radix: Int): Byte? {\n val int = this.toIntOrNull(radix) ?: return null\n if (int < Byte.MIN_VALUE || int > Byte.MAX_VALUE) return null\n return int.toByte()\n}\n\n/**\n * Parses the string as a [Short] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n */\n@SinceKotlin(\"1.1\")\npublic fun String.toShortOrNull(): Short? = toShortOrNull(radix = 10)\n\n/**\n * Parses the string as a [Short] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\n@SinceKotlin(\"1.1\")\npublic fun String.toShortOrNull(radix: Int): Short? {\n val int = this.toIntOrNull(radix) ?: return null\n if (int < Short.MIN_VALUE || int > Short.MAX_VALUE) return null\n return int.toShort()\n}\n\n/**\n * Parses the string as an [Int] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n */\n@SinceKotlin(\"1.1\")\npublic fun String.toIntOrNull(): Int? = toIntOrNull(radix = 10)\n\n/**\n * Parses the string as an [Int] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\n@SinceKotlin(\"1.1\")\npublic fun String.toIntOrNull(radix: Int): Int? {\n checkRadix(radix)\n\n val length = this.length\n if (length == 0) return null\n\n val start: Int\n val isNegative: Boolean\n val limit: Int\n\n val

```
firstChar = this[0]\n    if (firstChar < '0') {  // Possible leading sign\n        if (length == 1) return null  // non-digit (possible sign) only, no digits after\n\n        start = 1\n\n        if (firstChar == '-') {\n            isNegative = true\n            limit = Int.MIN_VALUE\n        } else if (firstChar == '+') {\n            isNegative = false\n            limit = -Int.MAX_VALUE\n        } else\n            return null\n    } else {\n        start = 0\n        isNegative = false\n        limit = -Int.MAX_VALUE\n    }\n\n\n    val limitForMaxRadix = (-Int.MAX_VALUE) / 36\n\n    var limitBeforeMul = limitForMaxRadix\n    var result = 0\n    for (i in start until length) {\n        val digit = digitOf(this[i], radix)\n\n        if (digit < 0) return null\n        if (result < limitBeforeMul) {\n            if (limitBeforeMul == limitForMaxRadix) {\n                limitBeforeMul = limit / radix\n\n                if (result < limitBeforeMul) {\n                    return null\n                }\n            } else {\n                return null\n            }\n        }\n\n        result *= radix\n\n        if (result < limit + digit) return null\n\n        result -= digit\n    }\n\n    return if (isNegative) result else -result\n}\n\n/**\n * Parses the string as a [Long] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n */\n@SinceKotlin(\"1.1\")\npublic fun String.toLongOrNull(): Long? = toLongOrNull(radix = 10)\n\n/**\n * Parses the string as a [Long] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\n@SinceKotlin(\"1.1\")\npublic fun String.toLongOrNull(radix: Int): Long? {\n    checkRadix(radix)\n\n    val length = this.length\n    if (length == 0) return null\n\n    val start: Int\n    val isNegative: Boolean\n    val limit: Long\n\n    val firstChar = this[0]\n    if (firstChar < '0') {  // Possible leading sign\n        if (length == 1) return null  // non-digit (possible sign) only, no digits after\n\n        start = 1\n\n        if (firstChar == '-') {\n            isNegative = true\n            limit = Long.MIN_VALUE\n        } else if (firstChar == '+') {\n            isNegative = false\n            limit = -Long.MAX_VALUE\n        } else\n            return null\n    } else {\n        start = 0\n        isNegative = false\n        limit = -Long.MAX_VALUE\n    }\n\n\n    val limitForMaxRadix = (-Long.MAX_VALUE) / 36\n\n    var limitBeforeMul = limitForMaxRadix\n    var result = 0L\n    for (i in start until length) {\n        val digit = digitOf(this[i], radix)\n\n        if (digit < 0) return null\n        if (result < limitBeforeMul) {\n            if (limitBeforeMul == limitForMaxRadix) {\n                limitBeforeMul = limit / radix\n\n                if (result < limitBeforeMul) {\n                    return null\n                }\n            } else {\n                return null\n            }\n        }\n\n        result *= radix\n\n        if (result < limit + digit) return null\n\n        result -= digit\n    }\n\n    return if (isNegative) result else -result\n}\n\n\ninternal fun numberFormatError(input: String): Nothing = throw NumberFormatException(\"Invalid number format: '$input'\")\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\nimport kotlin.contracts.*\nimport kotlin.jvm.JvmInline\nimport kotlin.math.*\n\n/**\n * Represents the amount of time one instant of time is away from another instant.\n *\n * A negative duration is possible in a situation when the second instant is earlier than the first one.\n *\n * The type can store duration values up to \u00b1146 years with nanosecond precision,\n * and up to \u00b1146 million years with millisecond precision.\n * If a duration-returning operation provided in `kotlin.time` produces a duration value that doesn't fit into the above range,\n * the returned `Duration` is infinite.\n *\n * An infinite duration value [Duration.INFINITE] can be used to represent infinite timeouts.\n *\n * To construct a duration use either the extension function [toDuration],\n * or the extension properties [hours], [minutes], [seconds], and so on,\n * available on [Int], [Long], and [Double] numeric types.\n *\n * To get the value of this duration expressed in a particular [duration units][DurationUnit]\n * use the functions [toInt], [toLong], and [toDouble]\n * or the properties [inWholeHours], [inWholeMinutes], [inWholeSeconds], [inWholeNanoseconds], and so on.\n */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalTime::class)\n@JvmInline\npublic value class Duration internal constructor(private val rawValue: Long) : Comparable<Duration> {\n\n    private val value: Long get() = rawValue shr 1\n    private inline val unitDiscriminator: Int get() = rawValue.toInt() and 1\n    private fun isInNanos() = unitDiscriminator == 0\n    private fun isInMillis() = unitDiscriminator == 1\n    private val storageUnit get() = if (isInNanos()) DurationUnit.NANOSECONDS
```

```
else DurationUnit.MILLISECONDS\n\n    init {\n        if (durationAssertionsEnabled) {\n            if (isInNanos()) {\n                if (value !in -MAX_NANOS..MAX_NANOS) throw AssertionError(\"$value ns is out of nanoseconds range\")\n            } else {\n                if (value !in -MAX_MILLIS..MAX_MILLIS) throw AssertionError(\"$value ms is out of milliseconds range\")\n                if (value in -MAX_NANOS_IN_MILLIS..MAX_NANOS_IN_MILLIS) throw AssertionError(\"$value ms is denormalized\")\n            }\n        }\n    }\n\n    companion object {\n        /** The duration equal to exactly 0 seconds. */\n        public val ZERO: Duration = Duration(0L)\n\n        /** The duration whose value is positive infinity. It is useful for representing timeouts that should never expire. */\n        public val INFINITE: Duration = durationOfMillis(MAX_MILLIS)\n        internal val NEG_INFINITE: Duration = durationOfMillis(-MAX_MILLIS)\n\n        /** Converts the given time duration [value] expressed in the specified [sourceUnit] into the specified [targetUnit]. */\n        @ExperimentalTime\n        public fun convert(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double =\n            convertDurationUnit(value, sourceUnit, targetUnit)\n\n        // Duration construction extension properties in Duration companion scope\n\n        /** Returns a [Duration] equal to this [Int] number of nanoseconds. */\n        @kotlin.internal.InlineOnly\n        public inline val Int.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)\n\n        /** Returns a [Duration] equal to this [Long] number of nanoseconds. */\n        @kotlin.internal.InlineOnly\n        public inline val Long.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)\n\n        /**\n         * Returns a [Duration] equal to this [Double] number of nanoseconds.\n         *\n         * Depending on its magnitude, the value is rounded to an integer number of nanoseconds or milliseconds.\n         *\n         * @throws IllegalArgumentException if this [Double] value is `NaN`.\n         */\n        @kotlin.internal.InlineOnly\n        public inline val Double.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)\n\n\n        /** Returns a [Duration] equal to this [Int] number of microseconds. */\n        @kotlin.internal.InlineOnly\n        public inline val Int.microseconds get() = toDuration(DurationUnit.MICROSECONDS)\n\n        /** Returns a [Duration] equal to this [Long] number of microseconds. */\n        @kotlin.internal.InlineOnly\n        public inline val Long.microseconds get() = toDuration(DurationUnit.MICROSECONDS)\n\n        /**\n         * Returns a [Duration] equal to this [Double] number of microseconds.\n         *\n         * Depending on its magnitude, the value is rounded to an integer number of nanoseconds or milliseconds.\n         *\n         * @throws IllegalArgumentException if this [Double] value is `NaN`.\n         */\n        @kotlin.internal.InlineOnly\n        public inline val Double.microseconds get() = toDuration(DurationUnit.MICROSECONDS)\n\n\n        /** Returns a [Duration] equal to this [Int] number of milliseconds. */\n        @kotlin.internal.InlineOnly\n        public inline val Int.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\n\n        /** Returns a [Duration] equal to this [Long] number of milliseconds. */\n        @kotlin.internal.InlineOnly\n        public inline val Long.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\n\n        /**\n         * Returns a [Duration] equal to this [Double] number of milliseconds.\n         *\n         * Depending on its magnitude, the value is rounded to an integer number of nanoseconds or milliseconds.\n         *\n         * @throws IllegalArgumentException if this [Double] value is `NaN`.\n         */\n        @kotlin.internal.InlineOnly\n        public inline val Double.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\n\n\n        /** Returns a [Duration] equal to this [Int] number of seconds. */\n        @kotlin.internal.InlineOnly\n        public inline val Int.seconds get() = toDuration(DurationUnit.SECONDS)\n\n        /** Returns a [Duration] equal to this [Long] number of seconds. */\n        @kotlin.internal.InlineOnly\n        public inline val Long.seconds get() = toDuration(DurationUnit.SECONDS)\n\n        /**\n         * Returns a [Duration] equal to this [Double] number of seconds.\n         *\n         * Depending on its magnitude, the value is rounded to an integer number of nanoseconds or milliseconds.\n         *\n         * @throws IllegalArgumentException if this [Double] value is `NaN`.\n         */\n        @kotlin.internal.InlineOnly\n        public inline val Double.seconds get() = toDuration(DurationUnit.SECONDS)\n\n\n        /** Returns a [Duration] equal to this [Int] number of minutes. */\n        @kotlin.internal.InlineOnly\n        public inline val Int.minutes get() = toDuration(DurationUnit.MINUTES)\n\n
```

```
/** Returns a [Duration] equal to this [Long] number of minutes. */\n @kotlin.internal.InlineOnly\n public inline val Long.minutes get() = toDuration(DurationUnit.MINUTES)\n\n /**\n * Returns a [Duration] equal to this [Double] number of minutes.\n *\n * Depending on its magnitude, the value is rounded to an integer number of nanoseconds or milliseconds.\n *\n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n */\n @kotlin.internal.InlineOnly\n public inline val Double.minutes get() = toDuration(DurationUnit.MINUTES)\n\n\n /** Returns a [Duration] equal to this [Int] number of hours. */\n @kotlin.internal.InlineOnly\n public inline val Int.hours get() = toDuration(DurationUnit.HOURS)\n\n /** Returns a [Duration] equal to this [Long] number of hours. */\n @kotlin.internal.InlineOnly\n public inline val Long.hours
 get() = toDuration(DurationUnit.HOURS)\n\n /**\n * Returns a [Duration] equal to this [Double] number of hours.\n *\n * Depending on its magnitude, the value is rounded to an integer number of nanoseconds or milliseconds.\n *\n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n */\n @kotlin.internal.InlineOnly\n public inline val Double.hours get() = toDuration(DurationUnit.HOURS)\n\n\n /** Returns a [Duration] equal to this [Int] number of days. */\n @kotlin.internal.InlineOnly\n public inline val Int.days get() = toDuration(DurationUnit.DAYS)\n\n /** Returns a [Duration] equal to this [Long] number of days. */\n @kotlin.internal.InlineOnly\n public inline val Long.days get() = toDuration(DurationUnit.DAYS)\n\n /**\n * Returns a [Duration] equal to this [Double] number of days.\n *\n * Depending on its magnitude, the value is
 rounded to an integer number of nanoseconds or milliseconds.\n *\n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n */\n @kotlin.internal.InlineOnly\n public inline val Double.days get() = toDuration(DurationUnit.DAYS)\n\n\n // deprecated static factory functions\n\n /** Returns a [Duration] representing the specified [value] number of nanoseconds. */\n @SinceKotlin(\"1.5\")\n @ExperimentalTime\n @Deprecated(\"Use 'Int.nanoseconds' extension property from Duration.Companion instead.\", ReplaceWith(\"value.nanoseconds\", \"kotlin.time.Duration.Companion.nanoseconds\"))\n @DeprecatedSinceKotlin(warningSince = \"1.6\")\n public fun nanoseconds(value: Int): Duration = value.toDuration(DurationUnit.NANOSECONDS)\n\n /** Returns a [Duration] representing the specified [value] number of nanoseconds. */\n @SinceKotlin(\"1.5\")\n @ExperimentalTime\n @Deprecated(\"Use
 'Long.nanoseconds' extension property from Duration.Companion instead.\", ReplaceWith(\"value.nanoseconds\", \"kotlin.time.Duration.Companion.nanoseconds\"))\n @DeprecatedSinceKotlin(warningSince = \"1.6\")\n public fun nanoseconds(value: Long): Duration = value.toDuration(DurationUnit.NANOSECONDS)\n\n /**\n * Returns a [Duration] representing the specified [value] number of nanoseconds.\n *\n * @throws IllegalArgumentException if the provided `Double` [value] is `NaN`.\n */\n @SinceKotlin(\"1.5\")\n @ExperimentalTime\n @Deprecated(\"Use 'Double.nanoseconds' extension property from Duration.Companion instead.\", ReplaceWith(\"value.nanoseconds\", \"kotlin.time.Duration.Companion.nanoseconds\"))\n @DeprecatedSinceKotlin(warningSince = \"1.6\")\n public fun nanoseconds(value: Double): Duration = value.toDuration(DurationUnit.NANOSECONDS)\n\n\n /** Returns a [Duration] representing the specified
 [value] number of microseconds. */\n @SinceKotlin(\"1.5\")\n @ExperimentalTime\n @Deprecated(\"Use 'Int.microseconds' extension property from Duration.Companion instead.\", ReplaceWith(\"value.microseconds\", \"kotlin.time.Duration.Companion.microseconds\"))\n @DeprecatedSinceKotlin(warningSince = \"1.6\")\n public fun microseconds(value: Int): Duration = value.toDuration(DurationUnit.MICROSECONDS)\n\n /** Returns a [Duration] representing the specified [value] number of microseconds. */\n @SinceKotlin(\"1.5\")\n @ExperimentalTime\n @Deprecated(\"Use 'Long.microseconds' extension property from Duration.Companion instead.\", ReplaceWith(\"value.microseconds\", \"kotlin.time.Duration.Companion.microseconds\"))\n @DeprecatedSinceKotlin(warningSince = \"1.6\")\n public fun microseconds(value: Long): Duration = value.toDuration(DurationUnit.MICROSECONDS)\n\n /**\n * Returns a [Duration] representing
```

the specified [value] number of microseconds.\n *\n * @throws IllegalArgumentException if the provided `Double` [value] is `NaN`.\n */\n @SinceKotlin(\"1.5\")\n @ExperimentalTime\n @Deprecated(\"Use 'Double.microseconds' extension property from Duration.Companion instead.\", ReplaceWith(\"value.microseconds\", \"kotlin.time.Duration.Companion.microseconds\"))\n @DeprecatedSinceKotlin(warningSince = \"1.6\")\n public fun microseconds(value: Double): Duration = value.toDuration(DurationUnit.MICROSECONDS)\n\n\n /** Returns a [Duration] representing the specified [value] number of milliseconds. */\n @SinceKotlin(\"1.5\")\n @ExperimentalTime\n @Deprecated(\"Use 'Int.milliseconds' extension property from Duration.Companion instead.\", ReplaceWith(\"value.milliseconds\", \"kotlin.time.Duration.Companion.milliseconds\"))\n @DeprecatedSinceKotlin(warningSince = \"1.6\")\n public fun milliseconds(value: Int): Duration = value.toDuration(DurationUnit.MILLISECONDS)\n\n /** Returns a [Duration] representing the specified [value] number of milliseconds. */\n @SinceKotlin(\"1.5\")\n @ExperimentalTime\n @Deprecated(\"Use 'Long.milliseconds' extension property from Duration.Companion instead.\", ReplaceWith(\"value.milliseconds\", \"kotlin.time.Duration.Companion.milliseconds\"))\n @DeprecatedSinceKotlin(warningSince = \"1.6\")\n public fun milliseconds(value: Long): Duration = value.toDuration(DurationUnit.MILLISECONDS)\n\n /**\n * Returns a [Duration] representing the specified [value] number of milliseconds.\n *\n * @throws IllegalArgumentException if the provided `Double` [value] is `NaN`.\n */\n @SinceKotlin(\"1.5\")\n @ExperimentalTime\n @Deprecated(\"Use 'Double.milliseconds' extension property from Duration.Companion instead.\", ReplaceWith(\"value.milliseconds\", \"kotlin.time.Duration.Companion.milliseconds\"))\n @DeprecatedSinceKotlin(warningSince = \"1.6\")\n public fun milliseconds(value: Double): Duration = value.toDuration(DurationUnit.MILLISECONDS)\n\n\n /** Returns a [Duration] representing the specified [value] number of seconds. */\n @SinceKotlin(\"1.5\")\n @ExperimentalTime\n @Deprecated(\"Use 'Int.seconds' extension property from Duration.Companion instead.\", ReplaceWith(\"value.seconds\", \"kotlin.time.Duration.Companion.seconds\"))\n @DeprecatedSinceKotlin(warningSince = \"1.6\")\n public fun seconds(value: Int): Duration = value.toDuration(DurationUnit.SECONDS)\n\n /** Returns a [Duration] representing the specified [value] number of seconds. */\n @SinceKotlin(\"1.5\")\n @ExperimentalTime\n @Deprecated(\"Use 'Long.seconds' extension property from Duration.Companion instead.\", ReplaceWith(\"value.seconds\", \"kotlin.time.Duration.Companion.seconds\"))\n @DeprecatedSinceKotlin(warningSince = \"1.6\")\n public fun seconds(value: Long): Duration = value.toDuration(DurationUnit.SECONDS)\n\n /**\n * Returns a [Duration] representing the specified [value] number of seconds.\n *\n * @throws IllegalArgumentException if the provided `Double` [value] is `NaN`.\n */\n @SinceKotlin(\"1.5\")\n @ExperimentalTime\n @Deprecated(\"Use 'Double.seconds' extension property from Duration.Companion instead.\", ReplaceWith(\"value.seconds\", \"kotlin.time.Duration.Companion.seconds\"))\n @DeprecatedSinceKotlin(warningSince = \"1.6\")\n public fun seconds(value: Double): Duration = value.toDuration(DurationUnit.SECONDS)\n\n\n /** Returns a [Duration] representing the specified [value] number of minutes. */\n @SinceKotlin(\"1.5\")\n @ExperimentalTime\n @Deprecated(\"Use 'Int.minutes' extension property from Duration.Companion instead.\", ReplaceWith(\"value.minutes\", \"kotlin.time.Duration.Companion.minutes\"))\n @DeprecatedSinceKotlin(warningSince = \"1.6\")\n public fun minutes(value: Int): Duration = value.toDuration(DurationUnit.MINUTES)\n\n /** Returns a [Duration] representing the specified [value] number of minutes. */\n @SinceKotlin(\"1.5\")\n @ExperimentalTime\n @Deprecated(\"Use 'Long.minutes' extension property from Duration.Companion instead.\", ReplaceWith(\"value.minutes\", \"kotlin.time.Duration.Companion.minutes\"))\n @DeprecatedSinceKotlin(warningSince = \"1.6\")\n public fun minutes(value: Long): Duration = value.toDuration(DurationUnit.MINUTES)\n\n /**\n * Returns a [Duration] representing the specified [value] number of minutes.\n *\n * @throws IllegalArgumentException if the provided `Double` [value] is `NaN`.\n */\n @SinceKotlin(\"1.5\")\n @ExperimentalTime\n @Deprecated(\"Use

'Double.minutes'
extension property from Duration.Companion instead.\", ReplaceWith(\"value.minutes\", \"kotlin.time.Duration.Companion.minutes\"))\n @DeprecatedSinceKotlin(warningSince = \"1.6\")\n public fun minutes(value: Double): Duration = value.toDuration(DurationUnit.MINUTES)\n\n\n /** Returns a [Duration] representing the specified [value] number of hours. */\n @SinceKotlin(\"1.5\")\n @ExperimentalTime\n @Deprecated(\"Use 'Int.hours' extension property from Duration.Companion instead.\", ReplaceWith(\"value.hours\", \"kotlin.time.Duration.Companion.hours\"))\n @DeprecatedSinceKotlin(warningSince = \"1.6\")\n public fun hours(value: Int): Duration = value.toDuration(DurationUnit.HOURS)\n\n /** Returns a [Duration] representing the specified [value] number of hours. */\n @SinceKotlin(\"1.5\")\n @ExperimentalTime\n @Deprecated(\"Use 'Long.hours' extension property from Duration.Companion instead.\", ReplaceWith(\"value.hours\", \"kotlin.time.Duration.Companion.hours\"))\n @DeprecatedSinceKotlin(warningSince = \"1.6\")\n public fun hours(value: Long): Duration = value.toDuration(DurationUnit.HOURS)\n\n /**\n * Returns a [Duration] representing the specified [value] number of hours.\n *\n * @throws IllegalArgumentException if the provided `Double` [value] is `NaN`.\n */\n @SinceKotlin(\"1.5\")\n @ExperimentalTime\n @Deprecated(\"Use 'Double.hours' extension property from Duration.Companion instead.\", ReplaceWith(\"value.hours\", \"kotlin.time.Duration.Companion.hours\"))\n @DeprecatedSinceKotlin(warningSince = \"1.6\")\n public fun hours(value: Double): Duration = value.toDuration(DurationUnit.HOURS)\n\n\n /** Returns a [Duration] representing the specified [value] number of days. */\n @SinceKotlin(\"1.5\")\n @ExperimentalTime\n @Deprecated(\"Use 'Int.days' extension property
from Duration.Companion instead.\", ReplaceWith(\"value.days\", \"kotlin.time.Duration.Companion.days\"))\n @DeprecatedSinceKotlin(warningSince = \"1.6\")\n public fun days(value: Int): Duration = value.toDuration(DurationUnit.DAYS)\n\n /** Returns a [Duration] representing the specified [value] number of days. */\n @SinceKotlin(\"1.5\")\n @ExperimentalTime\n @Deprecated(\"Use 'Long.days' extension property from Duration.Companion instead.\", ReplaceWith(\"value.days\", \"kotlin.time.Duration.Companion.days\"))\n @DeprecatedSinceKotlin(warningSince = \"1.6\")\n public fun days(value: Long): Duration = value.toDuration(DurationUnit.DAYS)\n\n /**\n * Returns a [Duration] representing the specified [value] number of days.\n *\n * @throws IllegalArgumentException if the provided `Double` [value] is `NaN`.\n */\n @SinceKotlin(\"1.5\")\n @ExperimentalTime\n @Deprecated(\"Use
'Double.days' extension property from Duration.Companion instead.\", ReplaceWith(\"value.days\", \"kotlin.time.Duration.Companion.days\"))\n @DeprecatedSinceKotlin(warningSince = \"1.6\")\n public fun days(value: Double): Duration = value.toDuration(DurationUnit.DAYS)\n\n /**\n * Parses a string that represents a duration and returns the parsed [Duration] value.\n *\n * The following formats are accepted:\n *\n * - ISO-8601 Duration format, e.g. `P1DT2H3M4.058S`, see [toIsoString] and [parseIsoString].\n * - The format of string returned by the default [Duration.toString] and `toString` in a specific unit,\n * e.g. `10s`, `1h 30m` or `-(1h 30m)`.\n *\n * @throws IllegalArgumentException if the string doesn't represent a duration in any of the supported formats.\n * @sample samples.time.Durations.parse\n */\n public fun parse(value: String): Duration = try {\n parseDuration(value, strictIso = false)\n } catch (e: IllegalArgumentException) {\n throw IllegalArgumentException(\"Invalid duration string format: '$value'.\", e)\n }\n\n /**\n * Parses a string that represents a duration in ISO-8601 format and returns the parsed [Duration] value.\n *\n * @throws IllegalArgumentException if the string doesn't represent a duration in ISO-8601 format.\n * @sample samples.time.Durations.parseIsoString\n */\n public fun parseIsoString(value: String): Duration = try {\n parseDuration(value, strictIso = true)\n } catch (e: IllegalArgumentException) {\n throw IllegalArgumentException(\"Invalid ISO duration string format: '$value'.\", e)\n }\n\n /**\n * Parses a string that represents a duration and returns the parsed [Duration] value,\n * or `null` if the string doesn't

represent a duration in any of the supported formats.\n *\n * The following formats are accepted:\n *\n * - ISO-8601 Duration format, e.g. `P1DT2H3M4.058S`, see [toIsoString] and [parseIsoString].\n * - The format of string returned by the default [Duration.toString] and `toString` in a specific unit,\n * e.g. `10s`, `1h 30m` or `-(1h 30m)`.\n * @sample samples.time.Durations.parse\n */\n public fun parseOrNull(value: String): Duration? = try {\n parseDuration(value, strictIso = false)\n } catch (e: IllegalArgumentException) {\n null\n }\n\n /**\n * Parses a string that represents a duration in ISO-8601 format and returns the parsed [Duration] value,\n * or `null` if the string doesn't represent a duration in ISO-8601 format.\n * @sample samples.time.Durations.parseIsoString\n */\n public fun parseIsoStringOrNull(value: String): Duration? = try {\n parseDuration(value, strictIso = true)\n } catch (e: IllegalArgumentException) {\n null\n }\n }\n\n // arithmetic operators\n\n /** Returns the negative of this value. */\n public operator fun unaryMinus(): Duration = durationOf(-value, unitDiscriminator)\n\n /**\n * Returns a duration whose value is the sum of this and [other] duration values.\n *\n * @throws IllegalArgumentException if the operation results in an undefined value for the given arguments,\n * e.g. when adding infinite durations of different sign.\n */\n public operator fun plus(other: Duration): Duration {\n when {\n this.isInfinite() -> {\n if (other.isFinite() || (this.rawValue xor other.rawValue >= 0))\n return this\n else\n throw IllegalArgumentException(\"Summing infinite durations of different signs yields an undefined result.\")\n }\n other.isInfinite() -> return other\n }\n\n return when {\n this.unitDiscriminator == other.unitDiscriminator -> {\n val result = this.value + other.value // never overflows long, but can overflow long63\n when {\n isInNanos() ->\n durationOfNanosNormalized(result)\n else ->\n durationOfMillisNormalized(result)\n }\n }\n this.isInMillis() ->\n addValuesMixedRanges(this.value, other.value)\n else ->\n addValuesMixedRanges(other.value, this.value)\n }\n }\n\n private fun addValuesMixedRanges(thisMillis: Long, otherNanos: Long): Duration {\n val otherMillis = nanosToMillis(otherNanos)\n val resultMillis = thisMillis + otherMillis\n return if (resultMillis in -MAX_NANOS_IN_MILLIS..MAX_NANOS_IN_MILLIS) {\n val otherNanoRemainder = otherNanos - millisToNanos(otherMillis)\n durationOfNanos(millisToNanos(resultMillis) + otherNanoRemainder)\n } else {\n durationOfMillis(resultMillis.coerceIn(-MAX_MILLIS, MAX_MILLIS))\n }\n }\n\n /**\n * Returns a duration whose value is the difference between this and [other] duration values.\n *\n * @throws IllegalArgumentException if the operation results in an undefined value for the given arguments,\n * e.g. when subtracting infinite durations of the same sign.\n */\n public operator fun minus(other: Duration): Duration = this + (-other)\n\n /**\n * Returns a duration whose value is this duration value multiplied by the given [scale] number.\n *\n * @throws IllegalArgumentException if the operation results in an undefined value for the given arguments,\n * e.g. when multiplying an infinite duration by zero.\n */\n public operator fun times(scale: Int): Duration {\n if (isInfinite()) {\n return when {\n scale == 0 -> throw IllegalArgumentException(\"Multiplying infinite duration by zero yields an undefined result.\")\n scale > 0 -> this\n else -> -this\n }\n }\n if (scale == 0) return ZERO\n\n val value = value\n val result = value * scale\n return if (isInNanos()) {\n if (value in (MAX_NANOS / Int.MIN_VALUE)..(-MAX_NANOS / Int.MIN_VALUE)) {\n // can't overflow nanos range for any scale\n durationOfNanos(result)\n } else {\n if (result / scale == value) {\n durationOfNanosNormalized(result)\n } else {\n val millis = nanosToMillis(value)\n val remNanos = value - millisToNanos(millis)\n val resultMillis = millis * scale\n val totalMillis = resultMillis + nanosToMillis(remNanos * scale)\n if (resultMillis / scale == millis && totalMillis xor resultMillis >= 0) {\n durationOfMillis(totalMillis.coerceIn(-MAX_MILLIS..MAX_MILLIS))\n } else {\n if (value.sign * scale.sign > 0) INFINITE else NEG_INFINITE\n }\n }\n }\n } else {\n if (result / scale == value) {\n

```
durationOfMillis(result.coerceIn(-MAX_MILLIS..MAX_MILLIS))\n            } else {\n                if (value.sign * scale.sign > 0) INFINITE else NEG_INFINITE\n            }\n        }\n    }\n\n    /**\n     * Returns a duration whose value is this duration value multiplied by the given [scale] number.\n     *\n     * The operation may involve rounding when the result cannot be represented exactly with a [Double] number.\n     *\n     * @throws IllegalArgumentException if the operation results in an undefined value for the given arguments,\n     * e.g. when multiplying an infinite duration by zero.\n
     */\n    public operator fun times(scale: Double): Duration {\n        val intScale = scale.roundToInt()\n        if (intScale.toDouble() == scale) {\n            return times(intScale)\n        }\n\n        val unit = storageUnit\n        val result = toDouble(unit) * scale\n        return result.toDuration(unit)\n    }\n\n    /**\n     * Returns a duration whose value is this duration value divided by the given [scale] number.\n     *\n     * @throws IllegalArgumentException if the operation results in an undefined value for the given arguments,\n     * e.g. when dividing zero duration by zero.\n     */\n    public operator fun div(scale: Int): Duration {\n        if (scale == 0) {\n            return when {\n                isPositive() -> INFINITE\n                isNegative() -> NEG_INFINITE\n                else -> throw IllegalArgumentException(\"Dividing zero duration by zero yields an undefined result.\")\n            }\n        }\n        if (isInNanos()) {\n
            return durationOfNanos(value / scale)\n        } else {\n            if (isInfinite())\n                return this * scale.sign\n\n            val result = value / scale\n\n            if (result in -MAX_NANOS_IN_MILLIS..MAX_NANOS_IN_MILLIS) {\n                val rem = millisToNanos(value - (result * scale)) / scale\n                return durationOfNanos(millisToNanos(result) + rem)\n            }\n            return durationOfMillis(result)\n        }\n    }\n\n    /**\n     * Returns a duration whose value is this duration value divided by the given [scale] number.\n     *\n     * @throws IllegalArgumentException if the operation results in an undefined value for the given arguments,\n     * e.g. when dividing an infinite duration by infinity or zero duration by zero.\n     */\n    public operator fun div(scale: Double): Duration {\n        val intScale = scale.roundToInt()\n        if (intScale.toDouble() == scale && intScale != 0) {\n            return div(intScale)\n        }\n\n        val unit = storageUnit\n        val result = toDouble(unit) / scale\n        return result.toDuration(unit)\n    }\n\n    /** Returns a number that is the ratio of this and [other] duration values. */\n    public operator fun div(other: Duration): Double {\n        val coarserUnit = maxOf(this.storageUnit, other.storageUnit)\n        return this.toDouble(coarserUnit) / other.toDouble(coarserUnit)\n    }\n\n    /** Returns true, if the duration value is less than zero. */\n    public fun isNegative(): Boolean = rawValue < 0\n\n    /** Returns true, if the duration value is greater than zero. */\n    public fun isPositive(): Boolean = rawValue > 0\n\n    /** Returns true, if the duration value is infinite. */\n    public fun isInfinite(): Boolean = rawValue == INFINITE.rawValue || rawValue == NEG_INFINITE.rawValue\n\n    /** Returns true, if the duration value is finite. */\n    public fun isFinite(): Boolean = !isInfinite()\n\n    /** Returns the absolute value of this value.
     The returned value is always non-negative. */\n    public val absoluteValue: Duration get() = if (isNegative()) -this else this\n\n    override fun compareTo(other: Duration): Int {\n        val compareBits = this.rawValue xor other.rawValue\n        if (compareBits < 0 || compareBits.toInt() and 1 == 0) // different signs or same sign/same range\n            return this.rawValue.compareTo(other.rawValue)\n        // same sign/different ranges\n        val r = this.unitDiscriminator - other.unitDiscriminator // compare ranges\n        return if (isNegative()) -r else r\n    }\n\n\n    // splitting to components\n\n    /**\n     * Splits this duration into days, hours, minutes, seconds, and nanoseconds and executes the given [action] with these components.\n     * The result of [action] is returned as the result of this function.\n     *\n     * - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;\n     * -
     `seconds` represents the whole number of seconds in this duration, and its absolute value is less than 60;\n     * - `minutes` represents the whole number of minutes in this duration, and its absolute value is less than 60;\n     * - `hours` represents the whole number of hours in this duration, and its absolute value is less than 24;\n     * - `days` represents the whole number of days in this duration.\n     *\n     *  Infinite durations are represented as either [Long.MAX_VALUE] days, or [Long.MIN_VALUE] days (depending on the sign of infinity),\n     *  and zeroes in the lower components.\n     */\n    public inline fun <T> toComponents(action: (days: Long, hours: Int, minutes: Int,
```

```
seconds: Int, nanoseconds: Int) -> T): T {\n        contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }\n        return action(inWholeDays, hoursComponent, minutesComponent, secondsComponent, nanosecondsComponent)\n    }\n\n    /**\n     * Splits this duration into hours, minutes, seconds, and nanoseconds and executes the given [action] with these components.\n     * The result of [action] is returned as the result of this function.\n     *\n     * - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;\n     * - `seconds` represents the whole number of seconds in this duration, and its absolute value is less than 60;\n     * - `minutes` represents the whole number of minutes in this duration, and its absolute value is less than 60;\n     * - `hours` represents the whole number of hours in this duration.\n     *\n     *  Infinite durations are represented as either [Long.MAX_VALUE] hours, or [Long.MIN_VALUE] hours (depending on the sign of infinity),\n     *  and zeroes in the lower components.\n     */\n    public inline fun <T> toComponents(action: (hours: Long, minutes: Int, seconds: Int, nanoseconds: Int) -> T): T {\n        contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }\n        return action(inWholeHours, minutesComponent, secondsComponent, nanosecondsComponent)\n    }\n\n    /**\n     * Splits this duration into minutes, seconds, and nanoseconds and executes the given [action] with these components.\n     * The result of [action] is returned as the result of this function.\n     *\n     * - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;\n     * - `seconds` represents the whole number of seconds in this duration, and its absolute value is less than 60;\n     * - `minutes` represents the whole number of minutes in this duration.\n     *\n     *  Infinite durations are represented as either [Long.MAX_VALUE] minutes, or [Long.MIN_VALUE] minutes (depending on the sign of infinity),\n     *  and zeroes in the lower components.\n     */\n    public inline fun <T> toComponents(action: (minutes: Long, seconds: Int, nanoseconds: Int) -> T): T {\n        contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }\n        return action(inWholeMinutes, secondsComponent, nanosecondsComponent)\n    }\n\n    /**\n     * Splits this duration into seconds, and nanoseconds and executes the given [action] with these components.\n     * The result of [action] is returned as the result of this function.\n     *\n     * - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;\n     * - `seconds` represents the whole number of seconds in this duration.\n     *\n     *  Infinite durations are represented as either [Long.MAX_VALUE] seconds, or [Long.MIN_VALUE] seconds (depending on the sign of infinity),\n     *  and zero nanoseconds.\n     */\n    public inline fun <T> toComponents(action: (seconds: Long, nanoseconds: Int) -> T): T {\n        contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }\n        return action(inWholeSeconds, nanosecondsComponent)\n    }\n\n    @PublishedApi\n    internal val hoursComponent: Int\n        get() = if (isInfinite()) 0 else (inWholeHours % 24).toInt()\n\n    @PublishedApi\n    internal val minutesComponent: Int\n        get() = if (isInfinite()) 0 else (inWholeMinutes % 60).toInt()\n\n    @PublishedApi\n    internal val secondsComponent: Int\n        get() = if (isInfinite()) 0 else (inWholeSeconds % 60).toInt()\n\n    @PublishedApi\n    internal val nanosecondsComponent: Int\n        get() = when {\n            isInfinite() -> 0\n            isInMillis() -> millisToNanos(value % 1_000).toInt()\n            else -> (value % 1_000_000_000).toInt()\n        }\n\n\n    // conversion to units\n\n    /**\n     * Returns the value of this duration expressed as a [Double] number of the specified [unit].\n     *\n     * The operation may involve rounding when the result cannot be represented exactly with a [Double] number.\n     *\n     * An infinite duration value is converted either to [Double.POSITIVE_INFINITY] or [Double.NEGATIVE_INFINITY] depending on its sign.\n     */\n    public fun toDouble(unit: DurationUnit): Double {\n        return when (rawValue) {\n            INFINITE.rawValue -> Double.POSITIVE_INFINITY\n            NEG_INFINITE.rawValue -> Double.NEGATIVE_INFINITY\n            else -> {\n                // TODO: whether it's ok to convert to Double before scaling\n                convertDurationUnit(value.toDouble(), storageUnit, unit)\n            }\n        }\n    }\n\n    /**\n     * Returns the value of this duration expressed as a [Long] number of the specified [unit].\n     *\n     * If the result doesn't fit in the range of [Long] type, it is coerced into that range:\n     * - [Long.MIN_VALUE] is returned if it's less than `Long.MIN_VALUE`,\n     * - [Long.MAX_VALUE] is returned if it's greater than `Long.MAX_VALUE`.\n     *\n     * An infinite duration value is converted either to [Long.MAX_VALUE] or [Long.MIN_VALUE] depending on its sign.\n     */\n    public fun toLong(unit: DurationUnit): Long {\n
```

```
    return when (rawValue) {\n        INFINITE.rawValue -> Long.MAX_VALUE\n
NEG_INFINITE.rawValue -> Long.MIN_VALUE\n        else -> convertDurationUnit(value, storageUnit, unit)\n
    }\n    }\n\n    /**\n     * Returns the value of this duration expressed as an [Int] number of the specified [unit].\n
*\n     * If the result doesn't fit in the range of [Int] type, it is coerced into that range:\n     * - [Int.MIN_VALUE] is
returned if it's less than `Int.MIN_VALUE`,\n     * - [Int.MAX_VALUE] is returned if it's greater than
`Int.MAX_VALUE`.\n     *\n     * An infinite duration value is converted either to [Int.MAX_VALUE] or
[Int.MIN_VALUE] depending on its sign.\n     */\n    public fun toInt(unit: DurationUnit): Int =\n
toLong(unit).coerceIn(Int.MIN_VALUE.toLong(), Int.MAX_VALUE.toLong()).toInt()\n\n    /** The value of this
duration expressed as a [Double] number of days. */\n    @ExperimentalTime\n    @Deprecated(\"Use inWholeDays
property instead
 or convert toDouble(DAYS) if a double value is required.\", ReplaceWith(\"toDouble(DurationUnit.DAYS)\"))\n
public val inDays: Double get() = toDouble(DurationUnit.DAYS)\n\n    /** The value of this duration expressed as
a [Double] number of hours. */\n    @ExperimentalTime\n    @Deprecated(\"Use inWholeHours property instead or
convert toDouble(HOURS) if a double value is required.\", ReplaceWith(\"toDouble(DurationUnit.HOURS)\"))\n
public val inHours: Double get() = toDouble(DurationUnit.HOURS)\n\n    /** The value of this duration expressed
as a [Double] number of minutes. */\n    @ExperimentalTime\n    @Deprecated(\"Use inWholeMinutes property
instead or convert toDouble(MINUTES) if a double value is required.\",
ReplaceWith(\"toDouble(DurationUnit.MINUTES)\"))\n    public val inMinutes: Double get() =
toDouble(DurationUnit.MINUTES)\n\n    /** The value of this duration expressed as a [Double] number of seconds.
*/\n    @ExperimentalTime\n    @Deprecated(\"Use inWholeSeconds
 property instead or convert toDouble(SECONDS) if a double value is required.\",
ReplaceWith(\"toDouble(DurationUnit.SECONDS)\"))\n    public val inSeconds: Double get() =
toDouble(DurationUnit.SECONDS)\n\n    /** The value of this duration expressed as a [Double] number of
milliseconds. */\n    @ExperimentalTime\n    @Deprecated(\"Use inWholeMilliseconds property instead or convert
toDouble(MILLISECONDS) if a double value is required.\",
ReplaceWith(\"toDouble(DurationUnit.MILLISECONDS)\"))\n    public val inMilliseconds: Double get() =
toDouble(DurationUnit.MILLISECONDS)\n\n    /** The value of this duration expressed as a [Double] number of
microseconds. */\n    @ExperimentalTime\n    @Deprecated(\"Use inWholeMicroseconds property instead or
convert toDouble(MICROSECONDS) if a double value is required.\",
ReplaceWith(\"toDouble(DurationUnit.MICROSECONDS)\"))\n    public val inMicroseconds: Double get() =
toDouble(DurationUnit.MICROSECONDS)\n\n    /** The value of this duration expressed
 as a [Double] number of nanoseconds. */\n    @ExperimentalTime\n    @Deprecated(\"Use inWholeNanoseconds
property instead or convert toDouble(NANOSECONDS) if a double value is required.\",
ReplaceWith(\"toDouble(DurationUnit.NANOSECONDS)\"))\n    public val inNanoseconds: Double get() =
toDouble(DurationUnit.NANOSECONDS)\n\n\n    /**\n     * The value of this duration expressed as a [Long]
number of days.\n     *\n     * An infinite duration value is converted either to [Long.MAX_VALUE] or
[Long.MIN_VALUE] depending on its sign.\n     */\n    public val inWholeDays: Long\n        get() =
toLong(DurationUnit.DAYS)\n\n    /**\n     * The value of this duration expressed as a [Long] number of hours.\n
*\n     * An infinite duration value is converted either to [Long.MAX_VALUE] or [Long.MIN_VALUE] depending
on its sign.\n     */\n    public val inWholeHours: Long\n        get() = toLong(DurationUnit.HOURS)\n\n    /**\n     *
The value of this duration expressed as a [Long] number of
 minutes.\n     *\n     * An infinite duration value is converted either to [Long.MAX_VALUE] or
[Long.MIN_VALUE] depending on its sign.\n     */\n    public val inWholeMinutes: Long\n        get() =
toLong(DurationUnit.MINUTES)\n\n    /**\n     * The value of this duration expressed as a [Long] number of
seconds.\n     *\n     * An infinite duration value is converted either to [Long.MAX_VALUE] or
[Long.MIN_VALUE] depending on its sign.\n     */\n    public val inWholeSeconds: Long\n        get() =
toLong(DurationUnit.SECONDS)\n\n    /**\n     * The value of this duration expressed as a [Long] number of
milliseconds.\n     *\n     * An infinite duration value is converted either to [Long.MAX_VALUE] or
```

```
[Long.MIN_VALUE] depending on its sign.\n     */\n    public val inWholeMilliseconds: Long\n        get() {\n        return if (isInMillis() && isFinite()) value else toLong(DurationUnit.MILLISECONDS)\n        }\n\n    /**\n     * The value of this duration expressed as a [Long] number
 of microseconds.\n     *\n     * If the result doesn't fit in the range of [Long] type, it is coerced into that range:\n     * - [Long.MIN_VALUE] is returned if it's less than `Long.MIN_VALUE`,\n     * - [Long.MAX_VALUE] is returned if it's greater than `Long.MAX_VALUE`.\n     *\n     * An infinite duration value is converted either to [Long.MAX_VALUE] or [Long.MIN_VALUE] depending on its sign.\n     */\n    public val inWholeMicroseconds: Long\n        get() = toLong(DurationUnit.MICROSECONDS)\n\n    /**\n     * The value of this duration expressed as a [Long] number of nanoseconds.\n     *\n     * If the result doesn't fit in the range of [Long] type, it is coerced into that range:\n     * - [Long.MIN_VALUE] is returned if it's less than `Long.MIN_VALUE`,\n     * - [Long.MAX_VALUE] is returned if it's greater than `Long.MAX_VALUE`.\n     *\n     * An infinite duration value is converted either to [Long.MAX_VALUE] or [Long.MIN_VALUE] depending on its sign.\n     */\n    public val inWholeNanoseconds: Long\n        get() {\n            val value = value\n            return when {\n                isInNanos() -> value\n                value > Long.MAX_VALUE / NANOS_IN_MILLIS -> Long.MAX_VALUE\n                value < Long.MIN_VALUE / NANOS_IN_MILLIS -> Long.MIN_VALUE\n                else -> millisToNanos(value)\n            }\n        }\n\n    // shortcuts\n\n    /**\n     * Returns the value of this duration expressed as a [Long] number of nanoseconds.\n     *\n     * If the value doesn't fit in the range of [Long] type, it is coerced into that range, see the conversion [Double.toLong] for details.\n     *\n     * The range of durations that can be expressed as a `Long` number of nanoseconds is approximately \u00b1292 years.\n     */\n    @ExperimentalTime\n    @Deprecated(\"Use inWholeNanoseconds property instead.\", ReplaceWith(\"this.inWholeNanoseconds\"))\n    public fun toLongNanoseconds(): Long = inWholeNanoseconds\n\n    /**\n     * Returns the value of this
 duration expressed as a [Long] number of milliseconds.\n     *\n     * The value is coerced to the range of [Long] type, if it doesn't fit in that range, see the conversion [Double.toLong] for details.\n     *\n     * The range of durations that can be expressed as a `Long` number of milliseconds is approximately \u00b1292 million years.\n     */\n    @ExperimentalTime\n    @Deprecated(\"Use inWholeMilliseconds property instead.\", ReplaceWith(\"this.inWholeMilliseconds\"))\n    public fun toLongMilliseconds(): Long = inWholeMilliseconds\n\n    /**\n     * Returns a string representation of this duration value\n     * expressed as a combination of numeric components, each in its own unit.\n     *\n     * Each component is a number followed by the unit abbreviated name: `d`, `h`, `m`, `s`:\n     * `5h`, `1d 12h`, `1h 0m 30.340s`.\n     * The last component, usually seconds, can be a number with a fractional part.\n     *\n     * If the duration is less than a second, it is represented
 as a single number\n     * with one of sub-second units: `ms` (milliseconds), `us` (microseconds), or `ns` (nanoseconds):\n     * `140.884ms`, `500us`, `24ns`.\n     *\n     * A negative duration is prefixed with `-` sign and, if it consists of multiple components, surrounded with parentheses:\n     * `-12m` and `-(1h 30m)`.\n     *\n     * Special cases:\n     *  - an infinite duration is formatted as `\"Infinity\"` or `\"-Infinity\"` without a unit.\n     *\n     * It's recommended to use [toIsoString] that uses more strict ISO-8601 format instead of this `toString`\n     * when you want to convert a duration to a string in cases of serialization, interchange, etc.\n     *\n     * @sample samples.time.Durations.toStringDefault\n     */\n    override fun toString(): String = when (rawValue) {\n        0L -> \"0s\"\n        INFINITE.rawValue -> \"Infinity\"\n        NEG_INFINITE.rawValue -> \"-Infinity\"\n        else -> {\n            val isNegative = isNegative()\n            buildString
 {\n                if (isNegative) append('-')\n                absoluteValue.toComponents { days, hours, minutes, seconds, nanoseconds ->\n                    val hasDays = days != 0L\n                    val hasHours = hours != 0\n                    val hasMinutes = minutes != 0\n                    val hasSeconds = seconds != 0 || nanoseconds != 0\n                    var components = 0\n                    if (hasDays) {\n                        append(days).append('d')\n                        components++\n                    }\n                    if (hasHours || (hasDays && (hasMinutes || hasSeconds))) {\n                        if (components++ > 0) append(' ')\n                        append(hours).append('h')\n                    }\n                    if (hasMinutes || (hasSeconds && (hasHours || hasDays))) {\n                        if (components++ > 0) append(' ')\n                        append(minutes).append('m')\n                    }\n                    if
```

```
 (hasSeconds) {\n                    if (components++ > 0) append(' ')\n                    when {\n
seconds != 0 || hasDays || hasHours || hasMinutes ->\n                        appendFractional(seconds, nanoseconds, 9,
\"s\", isZeroes = false)\n                    nanoseconds >= 1_000_000 ->\n
appendFractional(nanoseconds / 1_000_000, nanoseconds % 1_000_000, 6, \"ms\", isZeroes = false)\n
    nanoseconds >= 1_000 ->\n                        appendFractional(nanoseconds / 1_000, nanoseconds % 1_000,
3, \"us\", isZeroes = false)\n                    else ->\n                        append(nanoseconds).append(\"ns\")\n
                }\n                }\n                if (isNegative && components > 1) insert(1, '(').append(')')\n                }\n
        }\n        }\n    }\n\n    private fun StringBuilder.appendFractional(whole: Int,
 fractional: Int, fractionalSize: Int, unit: String, isZeroes: Boolean) {\n        append(whole)\n        if (fractional != 0)
{\n            append('.')\n            val fracString = fractional.toString().padStart(fractionalSize, '0')\n            val
nonZeroDigits = fracString.indexOfLast { it != '0' } + 1\n            when {\n                !isoZeroes && nonZeroDigits <
3 -> appendRange(fracString, 0, nonZeroDigits)\n                else -> appendRange(fracString, 0, ((nonZeroDigits + 2)
/ 3) * 3)\n            }\n        }\n        append(unit)\n    }\n\n    /**\n     * Returns a string representation of this duration
value expressed in the given [unit]\n     * and formatted with the specified [decimals] number of digits after decimal
point.\n     *\n     * Special cases:\n     *  - an infinite duration is formatted as `\"Infinity\"` or `\"-Infinity\"` without a
unit.\n     *\n     * @param decimals the number of digits after decimal point to show. The value must be non-
negative.\n
     * No more than 12 decimals will be shown, even if a larger number is requested.\n     *\n     * @return the value
of duration in the specified [unit] followed by that unit abbreviated name: `d`, `h`, `m`, `s`, `ms`, `us`, or `ns`.\n
*\n     * @throws IllegalArgumentException if [decimals] is less than zero.\n     *\n     * @sample
samples.time.Durations.toStringDecimals\n     */\n    public fun toString(unit: DurationUnit, decimals: Int = 0):
String {\n        require(decimals >= 0) { \"decimals must be not negative, but was $decimals\" }\n        val number =
toDouble(unit)\n        if (number.isInfinite()) return number.toString()\n        return formatToExactDecimals(number,
decimals.coerceAtMost(12)) + unit.shortName()\n    }\n\n\n    /**\n     * Returns an ISO-8601 based string
representation of this duration.\n     *\n     * The returned value is presented in the format `PThHmMs.fS`, where `h`,
`m`, `s` are the integer components of this duration (see [toComponents])\n
     * and `f` is a fractional part of second. Depending on the roundness of the value the fractional part can be
formatted with either\n     * 0, 3, 6, or 9 decimal digits.\n     *\n     * The infinite duration is represented as
`\"PT9999999999999H\"` which is larger than any possible finite duration in Kotlin.\n     *\n     * Negative durations
are indicated with the sign `-` in the beginning of the returned string, for example, `\"-PT5M30S\"`.\n     *\n     *
@sample samples.time.Durations.toIsoString\n     */\n    public fun toIsoString(): String = buildString {\n        if
(isNegative()) append('-')\n        append(\"PT\")\n        this@Duration.absoluteValue.toComponents { hours,
minutes, seconds, nanoseconds ->\n            @Suppress(\"NAME_SHADOWING\")\n            var hours = hours\n
    if (isInfinite()) {\n                // use large enough value instead of Long.MAX_VALUE\n                hours =
9_999_999_999_999\n            }\n            val hasHours = hours !=
 0L\n            val hasSeconds = seconds != 0 || nanoseconds != 0\n            val hasMinutes = minutes != 0 ||
(hasSeconds && hasHours)\n            if (hasHours) {\n                append(hours).append('H')\n            }\n            if
(hasMinutes) {\n                append(minutes).append('M')\n            }\n            if (hasSeconds || (!hasHours &&
!hasMinutes)) {\n                appendFractional(seconds, nanoseconds, 9, \"S\", isZeroes = true)\n            }\n        }\n
}\n\n}\n\n// constructing from number of units\n// extension functions\n\n/** Returns a [Duration] equal to this [Int]
number of the specified [unit]. */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalTime::class)\npublic
fun Int.toDuration(unit: DurationUnit): Duration {\n    return if (unit <= DurationUnit.SECONDS) {\n
durationOfNanos(convertDurationUnitOverflow(this.toLong(), unit, DurationUnit.NANOSECONDS))\n    } else\n
    toLong().toDuration(unit)\n}\n\n/** Returns a [Duration] equal
 to this [Long] number of the specified [unit].
*/\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalTime::class)\npublic fun Long.toDuration(unit:
DurationUnit): Duration {\n    val maxNsInUnit = convertDurationUnitOverflow(MAX_NANOS,
DurationUnit.NANOSECONDS, unit)\n    if (this in -maxNsInUnit..maxNsInUnit) {\n        return
```

durationOfNanos(convertDurationUnitOverflow(this, unit, DurationUnit.NANOSECONDS))\n    } else {\n        val millis = convertDurationUnit(this, unit, DurationUnit.MILLISECONDS)\n        return durationOfMillis(millis.coerceIn(-MAX_MILLIS, MAX_MILLIS))\n    }\n}\n\n/**\n * Returns a [Duration] equal to this [Double] number of the specified [unit].\n *\n * Depending on its magnitude, the value is rounded to an integer number of nanoseconds or milliseconds.\n *\n * @throws IllegalArgumentException if this `Double` value is `NaN`.\n */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalTime::class)\npublic fun Double.toDuration(unit: DurationUnit): Duration\n {\n    val valueInNs = convertDurationUnit(this, unit, DurationUnit.NANOSECONDS)\n require(!valueInNs.isNaN()) { \"Duration value cannot be NaN.\" }\n    val nanos = valueInNs.roundToLong()\n return if (nanos in -MAX_NANOS..MAX_NANOS) {\n        durationOfNanos(nanos)\n    } else {\n        val millis = convertDurationUnit(this, unit, DurationUnit.MILLISECONDS).roundToLong()\n durationOfMillisNormalized(millis)\n    }\n}\n\n// constructing from number of units\n// deprecated extension properties\n\n/** Returns a [Duration] equal to this [Int] number of nanoseconds. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Int.nanoseconds' extension property from Duration.Companion instead.\", ReplaceWith(\"this.nanoseconds\", \"kotlin.time.Duration.Companion.nanoseconds\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Int.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)\n\n/** Returns a [Duration] equal to this [Long] number of nanoseconds. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Long.nanoseconds' extension property from Duration.Companion instead.\", ReplaceWith(\"this.nanoseconds\", \"kotlin.time.Duration.Companion.nanoseconds\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Long.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)\n\n/**\n * Returns a [Duration] equal to this [Double] number of nanoseconds.\n *\n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Double.nanoseconds' extension property from Duration.Companion instead.\", ReplaceWith(\"this.nanoseconds\", \"kotlin.time.Duration.Companion.nanoseconds\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Double.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)\n\n\n/** Returns a [Duration] equal to this [Int] number of microseconds. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Int.microseconds' extension\n property from Duration.Companion instead.\", ReplaceWith(\"this.microseconds\", \"kotlin.time.Duration.Companion.microseconds\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Int.microseconds get() = toDuration(DurationUnit.MICROSECONDS)\n\n/** Returns a [Duration] equal to this [Long] number of microseconds. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Long.microseconds' extension property from Duration.Companion instead.\", ReplaceWith(\"this.microseconds\", \"kotlin.time.Duration.Companion.microseconds\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Long.microseconds get() = toDuration(DurationUnit.MICROSECONDS)\n\n/**\n * Returns a [Duration] equal to this [Double] number of microseconds.\n *\n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Double.microseconds' extension property from Duration.Companion instead.\", ReplaceWith(\"this.microseconds\", \"kotlin.time.Duration.Companion.microseconds\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Double.microseconds get() = toDuration(DurationUnit.MICROSECONDS)\n\n\n/** Returns a [Duration] equal to this [Int] number of milliseconds. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Int.milliseconds' extension property from Duration.Companion instead.\", ReplaceWith(\"this.milliseconds\", \"kotlin.time.Duration.Companion.milliseconds\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Int.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\n\n/** Returns a [Duration] equal to this [Long] number of milliseconds. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Long.milliseconds' extension property from Duration.Companion instead.\", ReplaceWith(\"this.milliseconds\", \"kotlin.time.Duration.Companion.milliseconds\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Long.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\n\n/**\n

* Returns a [Duration] equal to this [Double] number of milliseconds.\n *\n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Double.milliseconds' extension property from Duration.Companion instead.\", ReplaceWith(\"this.milliseconds\", \"kotlin.time.Duration.Companion.milliseconds\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Double.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\n\n\n/** Returns a [Duration] equal to this [Int] number of seconds. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Int.seconds' extension property from Duration.Companion instead.\", ReplaceWith(\"this.seconds\", \"kotlin.time.Duration.Companion.seconds\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Int.seconds get() = toDuration(DurationUnit.SECONDS)\n\n/** Returns a [Duration] equal to this [Long] number of seconds. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Long.seconds' extension property from Duration.Companion instead.\", ReplaceWith(\"this.seconds\", \"kotlin.time.Duration.Companion.seconds\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Long.seconds get() = toDuration(DurationUnit.SECONDS)\n\n/**\n * Returns a [Duration] equal to this [Double] number of seconds.\n *\n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Double.seconds' extension property from Duration.Companion instead.\", ReplaceWith(\"this.seconds\", \"kotlin.time.Duration.Companion.seconds\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Double.seconds get() = toDuration(DurationUnit.SECONDS)\n\n\n/** Returns a [Duration] equal to this [Int] number of minutes. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Int.minutes' extension property from Duration.Companion instead.\", ReplaceWith(\"this.minutes\", \"kotlin.time.Duration.Companion.minutes\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Int.minutes get() = toDuration(DurationUnit.MINUTES)\n\n/** Returns a [Duration] equal to this [Long] number of minutes. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Long.minutes' extension property from Duration.Companion instead.\", ReplaceWith(\"this.minutes\", \"kotlin.time.Duration.Companion.minutes\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Long.minutes get() = toDuration(DurationUnit.MINUTES)\n\n/**\n * Returns a [Duration] equal to this [Double] number of minutes.\n *\n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Double.minutes' extension property from Duration.Companion instead.\", ReplaceWith(\"this.minutes\", \"kotlin.time.Duration.Companion.minutes\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Double.minutes
get() = toDuration(DurationUnit.MINUTES)\n\n\n/** Returns a [Duration] equal to this [Int] number of hours. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Int.hours' extension property from Duration.Companion instead.\", ReplaceWith(\"this.hours\", \"kotlin.time.Duration.Companion.hours\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Int.hours get() = toDuration(DurationUnit.HOURS)\n\n/** Returns a [Duration] equal to this [Long] number of hours. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Long.hours' extension property from Duration.Companion instead.\", ReplaceWith(\"this.hours\", \"kotlin.time.Duration.Companion.hours\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Long.hours get() = toDuration(DurationUnit.HOURS)\n\n/**\n * Returns a [Duration] equal to this [Double] number of hours.\n *\n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Double.hours' extension property from Duration.Companion instead.\", ReplaceWith(\"this.hours\", \"kotlin.time.Duration.Companion.hours\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Double.hours get() = toDuration(DurationUnit.HOURS)\n\n\n/** Returns a [Duration] equal to this [Int] number of days. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Int.days' extension property from Duration.Companion instead.\", ReplaceWith(\"this.days\", \"kotlin.time.Duration.Companion.days\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Int.days

```
get() = toDuration(DurationUnit.DAYS)\n\n/** Returns a [Duration] equal to this [Long] number of days.
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Long.days' extension property from
Duration.Companion instead.\", ReplaceWith(\"this.days\",
\"kotlin.time.Duration.Companion.days\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val
Long.days get() = toDuration(DurationUnit.DAYS)\n\n/**\n
 * Returns a [Duration] equal to this [Double] number of days.\n *\n * @throws IllegalArgumentException if this
[Double] value is `NaN`.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Double.days'
extension property from Duration.Companion instead.\", ReplaceWith(\"this.days\",
\"kotlin.time.Duration.Companion.days\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val
Double.days get() = toDuration(DurationUnit.DAYS)\n\n\n/** Returns a duration whose value is the specified
[duration] value multiplied by this number.
*/\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalTime::class)\n@kotlin.internal.InlineOnly\npublic
inline operator fun Int.times(duration: Duration): Duration = duration * this\n\n/**\n * Returns a duration whose
value is the specified [duration] value multiplied by this number.\n *\n * The operation may involve rounding when
the result cannot be represented exactly with a [Double] number.\n *\n * @throws IllegalArgumentException
 if the operation results in a `NaN` value.\n
*/\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalTime::class)\n@kotlin.internal.InlineOnly\npublic
inline operator fun Double.times(duration: Duration): Duration = duration * this\n\n\n\nprivate fun
parseDuration(value: String, strictIso: Boolean): Duration {\n    var length = value.length\n    if (length == 0) throw
IllegalArgumentException(\"The string is empty\")\n    var index = 0\n    var result = Duration.ZERO\n    val
infinityString = \"Infinity\"\n    when (value[index]) {\n        '+', '-' -> index++\n    }\n    val hasSign = index > 0\n
val isNegative = hasSign && value.startsWith('-')\n    when {\n        length <= index ->\n            throw
IllegalArgumentException(\"No components\")\n        value[index] == 'P' -> {\n            if (++index == length) throw
IllegalArgumentException()\n            val nonDigitSymbols = \"+-.\"\n            var isTimeComponent = false\n
var prevUnit: DurationUnit?
 = null\n            while (index < length) {\n                if (value[index] == 'T') {\n                    if (isTimeComponent ||
++index == length) throw IllegalArgumentException()\n                    isTimeComponent = true\n
continue\n                }\n                val component = value.substringWhile(index) { it in '0'..'9' || it in nonDigitSymbols
}\n                if (component.isEmpty()) throw IllegalArgumentException()\n                index += component.length\n
            val unitChar = value.getOrElse(index) { throw IllegalArgumentException(\"Missing unit for value
$component\") }\n                index++\n                val unit = durationUnitByIsoChar(unitChar, isTimeComponent)\n
            if (prevUnit != null && prevUnit <= unit) throw IllegalArgumentException(\"Unexpected order of duration
components\")\n                prevUnit = unit\n                val dotIndex = component.indexOf('.')\n                if (unit ==
DurationUnit.SECONDS
 && dotIndex > 0) {\n                    val whole = component.substring(0, dotIndex)\n                    result +=
parseOverLongIsoComponent(whole).toDuration(unit)\n                    result +=
component.substring(dotIndex).toDouble().toDuration(unit)\n                } else {\n                    result +=
parseOverLongIsoComponent(component).toDuration(unit)\n                }\n            }\n        }\n        strictIso ->\n
  throw IllegalArgumentException()\n        value.regionMatches(index, infinityString, 0, length = maxOf(length -
index, infinityString.length), ignoreCase = true) -> {\n            result = Duration.INFINITE\n        }\n        else -> {\n
            // parse default string format\n            var prevUnit: DurationUnit? = null\n            var afterFirst = false\n
var allowSpaces = !hasSign\n            if (hasSign && value[index] == '(' && value.last() == ')') {\n
allowSpaces = true\n                if (++index
 == --length) throw IllegalArgumentException(\"No components\")\n            }\n            while (index < length) {\n
            if (afterFirst && allowSpaces) {\n                    index = value.skipWhile(index) { it == ' ' }\n                }\n
    afterFirst = true\n                val component = value.substringWhile(index) { it in '0'..'9' || it == '.' }\n                if
(component.isEmpty()) throw IllegalArgumentException()\n                index += component.length\n                val
unitName = value.substringWhile(index) { it in 'a'..'z' }\n                index += unitName.length\n                val unit =
```

durationUnitByShortName(unitName)\n if (prevUnit != null && prevUnit <= unit) throw IllegalArgumentException(\"Unexpected order of duration components\")\n prevUnit = unit\n val dotIndex = component.indexOf('.')\n if (dotIndex > 0) {\n val whole = component.substring(0, dotIndex)\n result += whole.toLong().toDuration(unit)\n result += component.substring(dotIndex).toDouble().toDuration(unit)\n if (index < length) throw IllegalArgumentException(\"Fractional component must be last\")\n } else {\n result += component.toLong().toDuration(unit)\n }\n }\n }\n return if (isNegative) -result else result\n}\n\n\nprivate fun parseOverLongIsoComponent(value: String): Long {\n val length = value.length\n var startIndex = 0\n if (length > 0 && value[0] in \"+-\") startIndex++\n if ((length - startIndex) > 16 && (startIndex..value.lastIndex).all { value[it] in '0'..'9' }) {\n // all chars are digits, but more than ceiling(log10(MAX_MILLIS / 1000)) of them\n return if (value[0] == '-') Long.MIN_VALUE else Long.MAX_VALUE\n }\n // TODO: replace with just toLong after min JDK becomes 8\n return if (value.startsWith(\"+\"))
value.drop(1).toLong() else value.toLong()\n}\n\n\n\nprivate inline fun String.substringWhile(startIndex: Int, predicate: (Char) -> Boolean): String =\n substring(startIndex, skipWhile(startIndex, predicate))\n\nprivate inline fun String.skipWhile(startIndex: Int, predicate: (Char) -> Boolean): Int {\n var i = startIndex\n while (i < length && predicate(this[i])) i++\n return i\n}\n\n\n\n\n\n// The ranges are chosen so that they are:\n// - symmetric relative to zero: this greatly simplifies operations with sign, e.g. unaryMinus and minus.\n// - non-overlapping, but adjacent: the first value that doesn't fit in nanos range, can be exactly represented in millis.\n\ninternal const val NANOS_IN_MILLIS = 1_000_000\n// maximum number duration can store in nanosecond range\ninternal const val MAX_NANOS = Long.MAX_VALUE / 2 / NANOS_IN_MILLIS * NANOS_IN_MILLIS - 1 // ends in ..._999_999\n// maximum number duration can store in millisecond range, also encodes an infinite value\ninternal const val MAX_MILLIS = Long.MAX_VALUE / 2\n// MAX_NANOS expressed in milliseconds\nprivate const val MAX_NANOS_IN_MILLIS = MAX_NANOS / NANOS_IN_MILLIS\n\nprivate fun nanosToMillis(nanos: Long): Long = nanos / NANOS_IN_MILLIS\nprivate fun millisToNanos(millis: Long): Long = millis * NANOS_IN_MILLIS\n\nprivate fun durationOfNanos(normalNanos: Long) = Duration(normalNanos shl 1)\nprivate fun durationOfMillis(normalMillis: Long) = Duration((normalMillis shl 1) + 1)\nprivate fun durationOf(normalValue: Long, unitDiscriminator: Int) = Duration((normalValue shl 1) + unitDiscriminator)\nprivate fun durationOfNanosNormalized(nanos: Long) =\n if (nanos in -MAX_NANOS..MAX_NANOS) {\n durationOfNanos(nanos)\n } else {\n durationOfMillis(nanosToMillis(nanos))\n }\n\nprivate fun durationOfMillisNormalized(millis: Long) =\n if (millis in -MAX_NANOS_IN_MILLIS..MAX_NANOS_IN_MILLIS) {\n durationOfNanos(millisToNanos(millis))\n } else {\n durationOfMillis(millis.coerceIn(-MAX_MILLIS, MAX_MILLIS))\n }\n\ninternal expect val durationAssertionsEnabled: Boolean\n\ninternal expect fun formatToExactDecimals(value: Double, decimals: Int): String\ninternal expect fun formatUpToDecimals(value: Double, decimals: Int): String","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n@file:kotlin.jvm.JvmName(\"UnsignedKt\")\npackage kotlin\n\n@PublishedApi\ninternal fun uintCompare(v1: Int, v2: Int): Int = (v1 xor Int.MIN_VALUE).compareTo(v2 xor Int.MIN_VALUE)\n@PublishedApi\ninternal fun ulongCompare(v1: Long, v2: Long): Int = (v1 xor Long.MIN_VALUE).compareTo(v2 xor Long.MIN_VALUE)\n\n@PublishedApi\ninternal fun uintDivide(v1: UInt, v2: UInt): UInt = (v1.toLong() / v2.toLong()).toUInt()\n@PublishedApi\ninternal fun uintRemainder(v1: UInt, v2: UInt): UInt = (v1.toLong() % v2.toLong()).toUInt()\n\n// Division and remainder are based on Guava's UnsignedLongs implementation\n// Copyright 2011 The Guava Authors\n\n@PublishedApi\ninternal fun ulongDivide(v1: ULong, v2: ULong): ULong {\n val dividend = v1.toLong()\n val divisor = v2.toLong()\n if (divisor < 0) { // i.e., divisor >= 2^63:\n return if (v1 < v2) ULong(0) else ULong(1)\n }\n\n // Optimization - use signed division if both dividend and divisor < 2^63\n if (dividend >= 0) {\n return ULong(dividend / divisor)\n }\n\n // Otherwise, approximate

the quotient, check, and correct if necessary.\n    val quotient = ((dividend ushr 1) / divisor) shl 1\n    val rem = dividend - quotient * divisor\n    return ULong(quotient + if (ULong(rem) >= ULong(divisor)) 1 else 0)\n\n}\n\n@PublishedApi\ninternal fun ulongRemainder(v1: ULong, v2: ULong): ULong {\n    val dividend = v1.toLong()\n    val divisor = v2.toLong()\n    if (divisor < 0) { // i.e., divisor >= 2^63:\n
return if (v1 < v2) {\n            v1 // dividend < divisor\n        } else {\n            v1 - v2 // dividend >= divisor\n        }\n
}\n\n    // Optimization - use signed modulus if both dividend and divisor < 2^63\n    if (dividend >= 0) {\n
return ULong(dividend % divisor)\n    }\n\n    // Otherwise, approximate the quotient, check, and correct if necessary.\n    val quotient = ((dividend ushr 1) / divisor) shl 1\n    val rem = dividend - quotient * divisor\n    return ULong(rem - if (ULong(rem) >= ULong(divisor)) divisor else 0)\n}\n\n@PublishedApi\ninternal fun doubleToUInt(v: Double): UInt = when {\n    v.isNaN() -> 0u\n    v <= UInt.MIN_VALUE.toDouble() -> UInt.MIN_VALUE\n    v >= UInt.MAX_VALUE.toDouble() -> UInt.MAX_VALUE\n    v <= Int.MAX_VALUE -> v.toInt().toUInt()\n    else -> (v - Int.MAX_VALUE).toInt().toUInt() + Int.MAX_VALUE.toUInt()      // Int.MAX_VALUE < v < UInt.MAX_VALUE\n}\n\n@PublishedApi\ninternal fun doubleToULong(v: Double): ULong = when {\n    v.isNaN()
-> 0u\n    v <= ULong.MIN_VALUE.toDouble() -> ULong.MIN_VALUE\n    v >= ULong.MAX_VALUE.toDouble() -> ULong.MAX_VALUE\n    v < Long.MAX_VALUE -> v.toLong().toULong()\n\n    // Real values from Long.MAX_VALUE to (Long.MAX_VALUE + 1) are not representable in Double, so don't handle them.\n    else -> (v - 9223372036854775808.0).toLong().toULong() + 9223372036854775808uL      // Long.MAX_VALUE + 1 < v < ULong.MAX_VALUE\n}\n\n\n@PublishedApi\ninternal fun uintToDouble(v: Int): Double = (v and Int.MAX_VALUE).toDouble() + (v ushr 31 shl 30).toDouble() * 2\n\n@PublishedApi\ninternal fun ulongToDouble(v: Long): Double = (v ushr 11).toDouble() * 2048 + (v and 2047)\n\n\ninternal fun ulongToString(v: Long): String = ulongToString(v, 10)\n\ninternal fun ulongToString(v: Long, base: Int): String {\n
if (v >= 0) return v.toString(base)\n\n    var quotient = ((v ushr 1) / base) shl 1\n    var rem = v - quotient * base\n
if (rem >= base) {\n        rem -= base\n        quotient += 1\n
}\n    return quotient.toString(base) + rem.toString(base)\n}\n\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"CollectionsKt\")\n\npackage kotlin.collections\n\n/**\n * Given an [iterator] function constructs an [Iterable] instance that returns values through the [Iterator]\n * provided by that function.\n * @sample samples.collections.Iterables.Building.iterable\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable(crossinline iterator: () -> Iterator<T>): Iterable<T> = object : Iterable<T> {\n    override fun iterator(): Iterator<T> = iterator()\n}\n\n/**\n * A wrapper over another [Iterable] (or any other object that can produce an [Iterator]) that returns\n * an indexing iterator.\n */\ninternal class IndexingIterable<out T>(private val iteratorFactory:
() -> Iterator<T>) : Iterable<IndexedValue<T>> {\n    override fun iterator(): Iterator<IndexedValue<T>> = IndexingIterator(iteratorFactory())\n}\n\n\n/**\n * Returns the size of this iterable if it is known, or `null` otherwise.\n */\n@PublishedApi\ninternal fun <T> Iterable<T>.collectionSizeOrNull(): Int? = if (this is Collection<*>) this.size else null\n\n/**\n * Returns the size of this iterable if it is known, or the specified [default] value otherwise.\n */\n@PublishedApi\ninternal fun <T> Iterable<T>.collectionSizeOrDefault(default: Int): Int = if (this is Collection<*>) this.size else default\n\n\n/**\n * Returns a single list of all elements from all collections in the given collection.\n * @sample samples.collections.Iterables.Operations.flattenIterable\n */\npublic fun <T> Iterable<Iterable<T>>.flatten(): List<T> {\n    val result = ArrayList<T>()\n    for (element in this) {\n
result.addAll(element)\n    }\n    return result\n}\n\n/**\n * Returns a pair
of lists, where\n * *first* list is built from the first values of each pair from this collection,\n * *second* list is built from the second values of each pair from this collection.\n * @sample samples.collections.Iterables.Operations.unzipIterable\n */\npublic fun <T, R> Iterable<Pair<T, R>>.unzip(): Pair<List<T>, List<R>> {\n    val expectedSize = collectionSizeOrDefault(10)\n    val listT =

ArrayList<T>(expectedSize)\n    val listR = ArrayList<R>(expectedSize)\n    for (pair in this) {\n listT.add(pair.first)\n        listR.add(pair.second)\n    }\n    return listT to listR\n}\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"SequencesKt\")\n\npackage kotlin.sequences\n\nimport kotlin.random.Random\n\n/**\n * Given an [iterator] function constructs a [Sequence] that returns values through the [Iterator]\n * provided by that function.\n * The values are evaluated lazily, and the sequence is potentially infinite.\n *\n * @sample samples.collections.Sequences.Building.sequenceFromIterator\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence(crossinline iterator: () -> Iterator<T>): Sequence<T> = object : Sequence<T> {\n    override fun iterator(): Iterator<T> = iterator()\n}\n\n/**\n * Creates a sequence that returns all elements from this iterator. The sequence is constrained to be iterated only once.\n *\n * @sample samples.collections.Sequences.Building.sequenceFromIterator\n */\npublic fun <T> Iterator<T>.asSequence(): Sequence<T> = Sequence { this }.constrainOnce()\n\n/**\n * Creates a sequence that returns the specified values.\n *\n * @sample samples.collections.Sequences.Building.sequenceOfValues\n */\npublic fun <T> sequenceOf(vararg elements: T): Sequence<T> = if (elements.isEmpty()) emptySequence() else elements.asSequence()\n\n/**\n * Returns an empty sequence.\n */\npublic fun <T> emptySequence(): Sequence<T> = EmptySequence\n\nprivate object EmptySequence : Sequence<Nothing>, DropTakeSequence<Nothing> {\n    override fun iterator(): Iterator<Nothing> = EmptyIterator\n    override fun drop(n: Int) = EmptySequence\n    override fun take(n: Int) = EmptySequence\n}\n\n/**\n * Returns this sequence if it's not `null` and the empty sequence otherwise.\n * @sample samples.collections.Sequences.Usage.sequenceOrEmpty\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>?.orEmpty(): Sequence<T> = this ?: emptySequence()\n\n\n/**\n * Returns a sequence that iterates through the elements either of this sequence\n * or, if this sequence turns out to be empty, of the sequence returned by [defaultValue] function.\n *\n * @sample samples.collections.Sequences.Usage.sequenceIfEmpty\n */\n@SinceKotlin(\"1.3\")\npublic fun <T> Sequence<T>.ifEmpty(defaultValue: () -> Sequence<T>): Sequence<T> = sequence {\n    val iterator = this@ifEmpty.iterator()\n    if (iterator.hasNext()) {\n        yieldAll(iterator)\n    } else {\n        yieldAll(defaultValue())\n    }\n}\n\n/**\n * Returns a sequence of all elements from all sequences in this sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @sample samples.collections.Sequences.Transformations.flattenSequenceOfSequences\n */\npublic fun <T> Sequence<Sequence<T>>.flatten(): Sequence<T> = flatten { it.iterator() }\n\n/**\n * Returns a sequence of all elements from all iterables in this sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @sample samples.collections.Sequences.Transformations.flattenSequenceOfLists\n */\n@kotlin.jvm.JvmName(\"flattenSequenceOfIterable\")\npublic fun <T> Sequence<Iterable<T>>.flatten(): Sequence<T> = flatten { it.iterator() }\n\nprivate fun <T, R> Sequence<T>.flatten(iterator: (T) -> Iterator<R>): Sequence<R> {\n    if (this is TransformingSequence<*, *>) {\n        return (this as TransformingSequence<*, T>).flatten(iterator)\n    }\n    return FlatteningSequence(this, { it }, iterator)\n}\n\n/**\n * Returns a pair of lists, where\n * *first* list is built from the first values of each pair from this sequence,\n * *second* list is built from the second values of each pair from this sequence.\n *\n * The operation is _terminal_.\n *\n * @sample samples.collections.Sequences.Transformations.unzip\n */\npublic fun <T, R> Sequence<Pair<T, R>>.unzip(): Pair<List<T>, List<R>> {\n    val listT = ArrayList<T>()\n    val listR = ArrayList<R>()\n    for (pair in this) {\n listT.add(pair.first)\n        listR.add(pair.second)\n    }\n    return listT to listR\n}\n\n/**\n * Returns a sequence that yields elements of this sequence randomly shuffled.\n *\n * Note that every iteration of the sequence returns elements in a different order.\n *\n * The operation is _intermediate_ and _stateful_.\n */\n@SinceKotlin(\"1.4\")\npublic fun <T> Sequence<T>.shuffled(): Sequence<T> = shuffled(Random)\n\n/**\n * Returns a sequence that yields elements of this sequence randomly shuffled\n * using the specified [random] instance as the source of

```
randomness.\n *\n * Note that every iteration of the sequence returns elements in a different order.\n *\n * The operation is _intermediate_ and _stateful_.\n */\n@SinceKotlin(\"1.4\")\npublic fun <T> Sequence<T>.shuffled(random: Random): Sequence<T> = sequence<T> {\n    val buffer = toMutableList()\n    while (buffer.isNotEmpty()) {\n        val j = random.nextInt(buffer.size)\n        val last = buffer.removeLast()\n        val value = if (j < buffer.size) buffer.set(j, last) else last\n        yield(value)\n    }\n}\n\n\n/**\n * A sequence that returns the values from the underlying [sequence] that either match or do not match\n * the specified [predicate].\n *\n * @param sendWhen If `true`, values for which the predicate returns `true` are returned. Otherwise,\n *     values for which the predicate returns `false` are returned\n */\ninternal class FilteringSequence<T>(\n    private val sequence: Sequence<T>,\n    private val sendWhen: Boolean = true,\n    private val predicate: (T) -> Boolean\n) : Sequence<T> {\n\n    override fun iterator(): Iterator<T> = object : Iterator<T> {\n        val iterator = sequence.iterator()\n        var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for continue\n        var nextItem: T? = null\n\n        private fun calcNext() {\n            while (iterator.hasNext()) {\n                val item = iterator.next()\n                if (predicate(item) == sendWhen) {\n                    nextItem = item\n                    nextState = 1\n                    return\n                }\n            }\n            nextState = 0\n        }\n\n        override fun next(): T {\n            if (nextState == -1)\n                calcNext()\n            if (nextState == 0)\n                throw NoSuchElementException()\n            val result = nextItem\n            nextItem = null\n            nextState = -1\n            @Suppress(\"UNCHECKED_CAST\")\n            return result as T\n        }\n\n        override fun hasNext(): Boolean {\n            if (nextState == -1)\n                calcNext()\n            return nextState == 1\n        }\n    }\n}\n\n/**\n * A sequence which returns the results of applying the given [transformer] function to the values\n * in the underlying [sequence].\n */\n\ninternal class TransformingSequence<T, R>\nconstructor(private val sequence: Sequence<T>, private val transformer: (T) -> R) : Sequence<R> {\n    override fun iterator(): Iterator<R> = object : Iterator<R> {\n        val iterator = sequence.iterator()\n        override fun next(): R {\n            return transformer(iterator.next())\n        }\n\n        override fun hasNext(): Boolean {\n            return iterator.hasNext()\n        }\n    }\n\n    internal fun <E> flatten(iterator: (R) -> Iterator<E>):
    Sequence<E> {\n        return FlatteningSequence<T, R, E>(sequence, transformer, iterator)\n    }\n}\n\n/**\n * A sequence which returns the results of applying the given [transformer] function to the values\n * in the underlying [sequence], where the transformer function takes the index of the value in the underlying\n * sequence along with the value itself.\n */\ninternal class TransformingIndexedSequence<T, R>\nconstructor(private val sequence: Sequence<T>, private val transformer: (Int, T) -> R) : Sequence<R> {\n    override fun iterator(): Iterator<R> = object : Iterator<R> {\n        val iterator = sequence.iterator()\n        var index = 0\n        override fun next(): R {\n            return transformer(checkIndexOverflow(index++), iterator.next())\n        }\n\n        override fun hasNext(): Boolean {\n            return iterator.hasNext()\n        }\n    }\n}\n\n/**\n * A sequence which combines values from the underlying [sequence] with their indices and returns them as\n *     [IndexedValue] objects.\n */\ninternal class IndexingSequence<T>\nconstructor(private val sequence: Sequence<T>) : Sequence<IndexedValue<T>> {\n    override fun iterator(): Iterator<IndexedValue<T>> = object : Iterator<IndexedValue<T>> {\n        val iterator = sequence.iterator()\n        var index = 0\n        override fun next(): IndexedValue<T> {\n            return IndexedValue(checkIndexOverflow(index++), iterator.next())\n        }\n\n        override fun hasNext(): Boolean {\n            return iterator.hasNext()\n        }\n    }\n}\n\n/**\n * A sequence which takes the values from two parallel underlying sequences, passes them to the given\n * [transform] function and returns the values returned by that function. The sequence stops returning\n * values as soon as one of the underlying sequences stops returning values.\n */\ninternal class MergingSequence<T1, T2, V>\nconstructor(\n    private val sequence1: Sequence<T1>,\n    private val sequence2: Sequence<T2>,\n    private val transform: (T1, T2) -> V\n) : Sequence<V> {\n    override fun iterator(): Iterator<V> = object : Iterator<V> {\n        val iterator1 = sequence1.iterator()\n        val iterator2 = sequence2.iterator()\n        override fun next(): V {\n            return transform(iterator1.next(), iterator2.next())\n        }\n\n        override fun hasNext(): Boolean {\n            return iterator1.hasNext() && iterator2.hasNext()\n        }\n    }\n}\n\ninternal class FlatteningSequence<T, R, E>\nconstructor(\n    private val sequence: Sequence<T>,\n    private val transformer: (T) -> R,\n    private val iterator: (R) -> Iterator<E>\n) : Sequence<E> {\n    override fun iterator(): Iterator<E> = object : Iterator<E> {\n
```

```
val iterator = sequence.iterator()\n        var itemIterator: Iterator<E>? = null\n\n        override fun next(): E {\n
if (!ensureItemIterator())\n                throw NoSuchElementException()\n            return itemIterator!!.next()\n
}\n\n        override
 fun hasNext(): Boolean {\n            return ensureItemIterator()\n        }\n\n        private fun ensureItemIterator():
Boolean {\n            if (itemIterator?.hasNext() == false)\n                itemIterator = null\n\n            while (itemIterator
== null) {\n                if (!iterator.hasNext()) {\n                    return false\n                } else {\n                    val
element = iterator.next()\n                    val nextItemIterator = iterator(transformer(element))\n                    if
(nextItemIterator.hasNext()) {\n                        itemIterator = nextItemIterator\n                        return true\n
  }\n                }\n            }\n            return true\n        }\n    }\n}\n\ninternal fun <T, C, R> flatMapIndexed(source:
Sequence<T>, transform: (Int, T) -> C, iterator: (C) -> Iterator<R>): Sequence<R> =\n    sequence {\n        var
index = 0\n        for (element in source) {\n            val result = transform(checkIndexOverflow(index++),
 element)\n            yieldAll(iterator(result))\n        }\n    }\n\n/**\n * A sequence that supports drop(n) and take(n)
operations\n */\ninternal interface DropTakeSequence<T> : Sequence<T> {\n    fun drop(n: Int): Sequence<T>\n
fun take(n: Int): Sequence<T>\n}\n\n/**\n * A sequence that skips [startIndex] values from the underlying
[sequence]\n * and stops returning values right before [endIndex], i.e. stops at `endIndex - 1`\n */\ninternal class
SubSequence<T>(\n    private val sequence: Sequence<T>,\n    private val startIndex: Int,\n    private val endIndex:
Int\n) : Sequence<T>, DropTakeSequence<T> {\n\n    init {\n        require(startIndex >= 0) { \"startIndex should be
non-negative, but is $startIndex\" }\n        require(endIndex >= 0) { \"endIndex should be non-negative, but is
$endIndex\" }\n        require(endIndex >= startIndex) { \"endIndex should be not less than startIndex, but was
$endIndex < $startIndex\" }\n    }\n\n    private val count:
 Int get() = endIndex - startIndex\n\n    override fun drop(n: Int): Sequence<T> = if (n >= count) emptySequence()
else SubSequence(sequence, startIndex + n, endIndex)\n    override fun take(n: Int): Sequence<T> = if (n >= count)
this else SubSequence(sequence, startIndex, startIndex + n)\n\n    override fun iterator() = object : Iterator<T> {\n\n
    val iterator = sequence.iterator()\n        var position = 0\n\n        // Shouldn't be called from constructor to avoid
premature iteration\n        private fun drop() {\n            while (position < startIndex && iterator.hasNext()) {\n
   iterator.next()\n                position++\n            }\n        }\n\n        override fun hasNext(): Boolean {\n
drop()\n            return (position < endIndex) && iterator.hasNext()\n        }\n\n        override fun next(): T {\n
drop()\n            if (position >= endIndex)\n                throw NoSuchElementException()\n            position++\n
      return iterator.next()\n        }\n    }\n}\n\n/**\n * A sequence that returns at most [count] values from the
underlying [sequence], and stops returning values\n * as soon as that count is reached.\n */\ninternal class
TakeSequence<T>(\n    private val sequence: Sequence<T>,\n    private val count: Int\n) : Sequence<T>,
DropTakeSequence<T> {\n\n    init {\n        require(count >= 0) { \"count must be non-negative, but was $count.\"
}\n    }\n\n    override fun drop(n: Int): Sequence<T> = if (n >= count) emptySequence() else
SubSequence(sequence, n, count)\n    override fun take(n: Int): Sequence<T> = if (n >= count) this else
TakeSequence(sequence, n)\n\n    override fun iterator(): Iterator<T> = object : Iterator<T> {\n        var left =
count\n        val iterator = sequence.iterator()\n\n        override fun next(): T {\n            if (left == 0)\n                throw
NoSuchElementException()\n            left--\n            return iterator.next()\n        }\n\n        override
 fun hasNext(): Boolean {\n            return left > 0 && iterator.hasNext()\n        }\n    }\n}\n\n/**\n * A sequence that
returns values from the underlying [sequence] while the [predicate] function returns\n * `true`, and stops returning
values once the function returns `false` for the next element.\n */\ninternal class
TakeWhileSequence<T>\nconstructor(\n    private val sequence: Sequence<T>,\n    private val predicate: (T) ->
Boolean\n) : Sequence<T> {\n    override fun iterator(): Iterator<T> = object : Iterator<T> {\n        val iterator =
sequence.iterator()\n        var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for continue\n        var nextItem: T?
= null\n\n        private fun calcNext() {\n            if (iterator.hasNext()) {\n                val item = iterator.next()\n
  if (predicate(item)) {\n                    nextState = 1\n                    nextItem = item\n                    return\n                }\n
        }\n            nextState
 = 0\n        }\n\n        override fun next(): T {\n            if (nextState == -1)\n                calcNext() // will change
nextState\n            if (nextState == 0)\n                throw NoSuchElementException()\n
```

```
@Suppress(\"UNCHECKED_CAST\")\n            val result = nextItem as T\n\n            // Clean next to avoid keeping reference on yielded instance\n            nextItem = null\n            nextState = -1\n            return result\n        }\n\n override fun hasNext(): Boolean {\n            if (nextState == -1)\n                calcNext() // will change nextState\n  return nextState == 1\n        }\n    }\n}\n\n/**\n * A sequence that skips the specified number of values from the underlying [sequence] and returns\n * all values after that.\n */\ninternal class DropSequence<T>(\n    private val sequence: Sequence<T>,\n    private val count: Int\n) : Sequence<T>, DropTakeSequence<T> {\n    init {\n require(count >= 0) { \"count must
 be non-negative, but was $count.\" }\n    }\n\n    override fun drop(n: Int): Sequence<T> = (count + n).let { n1 -> if (n1 < 0) DropSequence(this, n) else DropSequence(sequence, n1) }\n    override fun take(n: Int): Sequence<T> = (count + n).let { n1 -> if (n1 < 0) TakeSequence(this, n) else SubSequence(sequence, count, n1) }\n\n    override fun iterator(): Iterator<T> = object : Iterator<T> {\n        val iterator = sequence.iterator()\n        var left = count\n\n // Shouldn't be called from constructor to avoid premature iteration\n        private fun drop() {\n            while (left > 0 && iterator.hasNext()) {\n                iterator.next()\n                left--\n            }\n        }\n\n        override fun next(): T {\n            drop()\n            return iterator.next()\n        }\n\n        override fun hasNext(): Boolean {\n drop()\n            return iterator.hasNext()\n        }\n    }\n}\n\n/**\n * A sequence that skips the values from the underlying
 [sequence] while the given [predicate] returns `true` and returns\n * all values after that.\n */\ninternal class DropWhileSequence<T>\nconstructor(\n    private val sequence: Sequence<T>,\n    private val predicate: (T) -> Boolean\n) : Sequence<T> {\n\n    override fun iterator(): Iterator<T> = object : Iterator<T> {\n        val iterator = sequence.iterator()\n        var dropState: Int = -1 // -1 for not dropping, 1 for nextItem, 0 for normal iteration\n        var nextItem: T? = null\n\n        private fun drop() {\n            while (iterator.hasNext()) {\n                val item = iterator.next()\n                if (!predicate(item)) {\n                    nextItem = item\n                    dropState = 1\n                    return\n                }\n            }\n            dropState = 0\n        }\n\n        override fun next(): T {\n            if (dropState == -1)\n                drop()\n\n            if (dropState == 1) {\n @Suppress(\"UNCHECKED_CAST\")\n
                val result = nextItem as T\n                nextItem = null\n                dropState = 0\n                return result\n
        }\n            return iterator.next()\n        }\n\n        override fun hasNext(): Boolean {\n            if (dropState == -1)\n                drop()\n            return dropState == 1 || iterator.hasNext()\n        }\n    }\n}\n\ninternal class DistinctSequence<T, K>(private val source: Sequence<T>, private val keySelector: (T) -> K) : Sequence<T> {\n override fun iterator(): Iterator<T> = DistinctIterator(source.iterator(), keySelector)\n}\n\nprivate class DistinctIterator<T, K>(private val source: Iterator<T>, private val keySelector: (T) -> K) : AbstractIterator<T>() {\n
  private val observed = HashSet<K>()\n\n    override fun computeNext() {\n        while (source.hasNext()) {\n val next = source.next()\n            val key = keySelector(next)\n\n            if (observed.add(key)) {\n setNext(next)\n
                return\n            }\n        }\n\n        done()\n    }\n}\n\n\nprivate class GeneratorSequence<T : Any>(private val getInitialValue: () -> T?, private val getNextValue: (T) -> T?) : Sequence<T> {\n    override fun iterator(): Iterator<T> = object : Iterator<T> {\n        var nextItem: T? = null\n        var nextState: Int = -2 // -2 for initial unknown, -1 for next unknown, 0 for done, 1 for continue\n\n        private fun calcNext() {\n            nextItem = if (nextState == -2) getInitialValue() else getNextValue(nextItem!!)\n            nextState = if (nextItem == null) 0 else 1\n        }\n\n        override fun next(): T {\n            if (nextState < 0)\n                calcNext()\n\n            if (nextState == 0)\n                throw NoSuchElementException()\n            val result = nextItem as T\n            // Do not clean nextItem (to avoid keeping reference on yielded instance) -- need to keep state for getNextValue\n            nextState = -1\n            return result\n        }\n\n        override fun hasNext(): Boolean {\n            if (nextState < 0)\n calcNext()\n            return nextState == 1\n        }\n    }\n}\n\n/**\n * Returns a wrapper sequence that provides values of this sequence, but ensures it can be iterated only one time.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * [IllegalStateException] is thrown on iterating the returned sequence for the second time and the following times.\n *\n */\npublic fun <T> Sequence<T>.constrainOnce(): Sequence<T> {\n    // as? does not work in js\n    //return this as? ConstrainedOnceSequence<T> ?: ConstrainedOnceSequence(this)\n    return if (this is
```

```
ConstrainedOnceSequence<T>) this else ConstrainedOnceSequence(this)\n}\n\n\n/**\n * Returns a sequence which invokes the function to calculate the next value on each iteration until the function returns `null`.\n *\n * The returned sequence is constrained to be iterated only once.\n *\n
 * @see constrainOnce\n * @see kotlin.sequences.sequence\n *\n * @sample samples.collections.Sequences.Building.generateSequence\n */\npublic fun <T : Any> generateSequence(nextFunction: () -> T?): Sequence<T> {\n    return GeneratorSequence(nextFunction, { nextFunction() }).constrainOnce()\n}\n\n/**\n * Returns a sequence defined by the starting value [seed] and the function [nextFunction],\n * which is invoked to calculate the next value based on the previous one on each iteration.\n *\n * The sequence produces values until it encounters first `null` value.\n * If [seed] is `null`, an empty sequence is produced.\n *\n * The sequence can be iterated multiple times, each time starting with [seed].\n *\n * @see kotlin.sequences.sequence\n *\n * @sample samples.collections.Sequences.Building.generateSequenceWithSeed\n */\n@kotlin.internal.LowPriorityInOverloadResolution\npublic fun <T : Any> generateSequence(seed: T?, nextFunction: (T) -> T?): Sequence<T> =\n    if (seed == null)\n        EmptySequence\n    else\n        GeneratorSequence({ seed }, nextFunction)\n\n/**\n * Returns a sequence defined by the function [seedFunction], which is invoked to produce the starting value,\n * and the [nextFunction], which is invoked to calculate the next value based on the previous one on each iteration.\n *\n * The sequence produces values until it encounters first `null` value.\n * If [seedFunction] returns `null`, an empty sequence is produced.\n *\n * The sequence can be iterated multiple times.\n *\n * @see kotlin.sequences.sequence\n *\n * @sample samples.collections.Sequences.Building.generateSequenceWithLazySeed\n */\npublic fun <T : Any> generateSequence(seedFunction: () -> T?, nextFunction: (T) -> T?): Sequence<T> =\n    GeneratorSequence(seedFunction, nextFunction)\n\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt
 file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"PreconditionsKt\")\n\npackage kotlin\n\nimport kotlin.contracts.contract\n\n/**\n * Throws an [IllegalArgumentException] if the [value] is false.\n *\n * @sample samples.misc.Preconditions.failRequireWithLazyMessage\n */\n@kotlin.internal.InlineOnly\npublic inline fun require(value: Boolean): Unit {\n    contract {\n        returns() implies value\n    }\n    require(value) { \"Failed requirement.\" }\n}\n\n/**\n * Throws an [IllegalArgumentException] with the result of calling [lazyMessage] if the [value] is false.\n *\n * @sample samples.misc.Preconditions.failRequireWithLazyMessage\n */\n@kotlin.internal.InlineOnly\npublic inline fun require(value: Boolean, lazyMessage: () -> Any): Unit {\n    contract {\n        returns() implies value\n    }\n    if (!value) {\n        val message = lazyMessage()\n        throw IllegalArgumentException(message.toString())\n    }\n}\n\n/**\n * Throws an [IllegalArgumentException]
 if the [value] is null. Otherwise returns the not null value.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T : Any> requireNotNull(value: T?): T {\n    contract {\n        returns() implies (value != null)\n    }\n    return requireNotNull(value) { \"Required value was null.\" }\n}\n\n/**\n * Throws an [IllegalArgumentException] with the result of calling [lazyMessage] if the [value] is null. Otherwise\n * returns the not null value.\n *\n * @sample samples.misc.Preconditions.failRequireNotNullWithLazyMessage\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T : Any> requireNotNull(value: T?, lazyMessage: () -> Any): T {\n    contract {\n        returns() implies (value != null)\n    }\n\n    if (value == null) {\n        val message = lazyMessage()\n        throw IllegalArgumentException(message.toString())\n    } else {\n        return value\n    }\n}\n\n/**\n * Throws an [IllegalStateException] if the [value] is false.\n *\n * @sample samples.misc.Preconditions.failCheckWithLazyMessage\n
 */\n@kotlin.internal.InlineOnly\npublic inline fun check(value: Boolean): Unit {\n    contract {\n        returns() implies value\n    }\n    check(value) { \"Check failed.\" }\n}\n\n/**\n * Throws an [IllegalStateException] with the result of calling [lazyMessage] if the [value] is false.\n *\n * @sample samples.misc.Preconditions.failCheckWithLazyMessage\n */\n@kotlin.internal.InlineOnly\npublic inline fun check(value: Boolean, lazyMessage: () -> Any): Unit {\n    contract {\n        returns() implies value\n    }\n    if
```

(!value) {\n        val message = lazyMessage()\n        throw IllegalStateException(message.toString())\n }\n}\n\n/**\n * Throws an [IllegalStateException] if the [value] is null. Otherwise\n * returns the not null value.\n *\n * @sample samples.misc.Preconditions.failCheckWithLazyMessage\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T : Any> checkNotNull(value: T?): T {\n    contract {\n        returns() implies (value != null)\n    }\n    return checkNotNull(value) { \"Required value was null.\" }\n}\n\n/**\n * Throws an [IllegalStateException] with the result of calling [lazyMessage]  if the [value] is null. Otherwise\n * returns the not null value.\n *\n * @sample samples.misc.Preconditions.failCheckWithLazyMessage\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T : Any> checkNotNull(value: T?, lazyMessage: () -> Any): T {\n    contract {\n        returns() implies (value != null)\n    }\n\n    if (value == null) {\n        val message = lazyMessage()\n        throw IllegalStateException(message.toString())\n    } else {\n        return value\n }\n}\n\n\n/**\n * Throws an [IllegalStateException] with the given [message].\n *\n * @sample samples.misc.Preconditions.failWithError\n */\n@kotlin.internal.InlineOnly\npublic inline fun error(message: Any): Nothing = throw IllegalStateException(message.toString())\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.js.*\nimport primitiveArrayConcat\nimport withType\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun <T> Array<out T>.elementAt(index: Int): T {\n    return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n
 */\npublic actual fun ByteArray.elementAt(index: Int): Byte {\n    return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun ShortArray.elementAt(index: Int): Short {\n    return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun IntArray.elementAt(index: Int): Int {\n    return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given [index]
 or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun LongArray.elementAt(index: Int): Long {\n    return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun FloatArray.elementAt(index: Int): Float {\n    return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun DoubleArray.elementAt(index: Int): Double {\n    return
 elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun BooleanArray.elementAt(index: Int): Boolean {\n    return elementAtOrElse(index) { throw

IndexOutOfBoundsException(\"index: $index, size: $size}\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun CharArray.elementAt(index: Int): Char {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size}\") }\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic actual fun <T> Array<out T>.asList(): List<T> {\n return ArrayList<T>(this.unsafeCast<Array<Any?>>())\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun ByteArray.asList(): List<Byte> {\n return this.unsafeCast<Array<Byte>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun ShortArray.asList(): List<Short> {\n return this.unsafeCast<Array<Short>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun IntArray.asList(): List<Int> {\n return this.unsafeCast<Array<Int>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun LongArray.asList(): List<Long> {\n return this.unsafeCast<Array<Long>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun FloatArray.asList(): List<Float> {\n return this.unsafeCast<Array<Float>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun DoubleArray.asList(): List<Double> {\n return this.unsafeCast<Array<Double>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun BooleanArray.asList(): List<Boolean> {\n return this.unsafeCast<Array<Boolean>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic actual fun CharArray.asList(): List<Char> {\n return object : AbstractList<Char>(), RandomAccess {\n override val size: Int get() = this@asList.size\n override fun isEmpty(): Boolean = this@asList.isEmpty()\n override fun contains(element: Char): Boolean = this@asList.contains(element)\n override fun get(index: Int): Char {\n AbstractList.checkElementIndex(index, size)\n return this@asList[index]\n }\n override fun indexOf(element: Char): Int {\n @Suppress(\"USELESS_CAST\")\n if ((element as Any?) !is Char) return -1\n return this@asList.indexOf(element)\n }\n override fun lastIndexOf(element: Char): Int {\n @Suppress(\"USELESS_CAST\")\n if ((element as Any?) !is Char) return -1\n return this@asList.lastIndexOf(element)\n }\n }\n}\n\n/**\n * Returns `true` if the two specified arrays are *deeply* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * If two corresponding elements are nested arrays, they are also compared deeply.\n * If any of arrays contains itself on any nesting level the behavior is undefined.\n * \n * The elements of other types are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.LowPriorityInOverloadResolution\npublic actual infix fun <T> Array<out T>.contentDeepEquals(other: Array<out T>): Boolean {\n return this.contentDeepEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *deeply* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The specified arrays are also considered deeply equal if both are `null`.\n * \n * If two corresponding elements are nested arrays, they are also compared deeply.\n * If any of arrays contains itself on any nesting level the behavior is undefined.\n * \n * The elements of other types are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayDeepEquals\")\npublic actual infix fun <T> Array<out T>?.contentDeepEquals(other: Array<out T>?): Boolean {\n definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays contains itself on any nesting level the behavior is undefined.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.LowPriorityInOverloadResolution\npublic actual fun <T> Array<out T>.contentDeepHashCode(): Int {\n return this.contentDeepHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n * Nested arrays are treated as lists too.\n *

\n * If any of arrays contains itself on any nesting level the behavior is undefined.\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayDeepHashCode\")\npublic actual fun <T> Array<out T>?.contentDeepHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of this array as if it is a [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays contains itself on any nesting level that reference\n * is rendered as `\"[...]\"` to prevent recursion.\n * \n * @sample samples.collections.Arrays.ContentOperations.contentDeepToString\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.LowPriorityInOverloadResolution\npublic actual fun <T> Array<out T>.contentDeepToString(): String {\n return this.contentDeepToString()\n}\n\n/**\n * Returns a string representation of the contents of this array as if it is a [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays contains itself on any nesting level that reference\n * is rendered as `\"[...]\"` to prevent recursion.\n * \n * @sample samples.collections.Arrays.ContentOperations.contentDeepToString\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayDeepToString\")\npublic actual fun <T> Array<out T>?.contentDeepToString(): String {\n definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual infix fun <T> Array<out T>.contentEquals(other: Array<out T>): Boolean {\n return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual infix fun ByteArray.contentEquals(other: ByteArray): Boolean {\n return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual infix fun ShortArray.contentEquals(other: ShortArray): Boolean {\n return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual infix fun IntArray.contentEquals(other: IntArray): Boolean {\n return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual infix fun LongArray.contentEquals(other: LongArray): Boolean {\n return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation

warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual infix fun FloatArray.contentEquals(other: FloatArray): Boolean {\n    return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated(\"Use
Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual infix fun DoubleArray.contentEquals(other: DoubleArray): Boolean {\n    return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual infix fun BooleanArray.contentEquals(other: BooleanArray): Boolean {\n    return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain
the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual infix fun CharArray.contentEquals(other: CharArray): Boolean {\n    return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayEquals\")\npublic actual infix fun <T> Array<out T>?.contentEquals(other:
Array<out T>?): Boolean {\n    definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayEquals\")\npublic actual infix fun ByteArray?.contentEquals(other: ByteArray?): Boolean {\n    definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayEquals\")\npublic actual
infix fun ShortArray?.contentEquals(other: ShortArray?): Boolean {\n    definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayEquals\")\npublic actual infix fun IntArray?.contentEquals(other: IntArray?): Boolean {\n    definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayEquals\")\npublic
actual infix fun LongArray?.contentEquals(other: LongArray?): Boolean {\n    definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of

the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayEquals\")\npublic actual infix fun FloatArray?.contentEquals(other: FloatArray?): Boolean {\n definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not
equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayEquals\")\npublic actual infix fun DoubleArray?.contentEquals(other: DoubleArray?): Boolean {\n definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayEquals\")\npublic actual infix fun BooleanArray?.contentEquals(other: BooleanArray?): Boolean {\n definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it
means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayEquals\")\npublic actual infix fun CharArray?.contentEquals(other: CharArray?): Boolean {\n definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual fun <T> Array<out T>.contentHashCode(): Int {\n return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual fun ByteArray.contentHashCode(): Int {\n return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use
Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual fun ShortArray.contentHashCode(): Int {\n return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual fun IntArray.contentHashCode(): Int {\n return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual fun LongArray.contentHashCode(): Int {\n return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use Kotlin compiler 1.4
to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual fun FloatArray.contentHashCode(): Int {\n return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual fun DoubleArray.contentHashCode(): Int {\n return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual fun BooleanArray.contentHashCode(): Int {\n return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual fun CharArray.contentHashCode(): Int {\n return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on

the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayHashCode\")\npublic actual fun <T> Array<out T>?.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayHashCode\")\npublic actual fun ByteArray?.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayHashCode\")\npublic actual fun ShortArray?.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayHashCode\")\npublic actual fun IntArray?.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayHashCode\")\npublic actual fun LongArray?.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayHashCode\")\npublic actual fun FloatArray?.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayHashCode\")\npublic actual fun DoubleArray?.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayHashCode\")\npublic actual fun BooleanArray?.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayHashCode\")\npublic actual fun CharArray?.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual fun <T> Array<out T>.contentToString(): String {\n return this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual fun ByteArray.contentToString(): String {\n return this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual fun ShortArray.contentToString(): String {\n return this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual fun IntArray.contentToString(): String {\n return this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual fun LongArray.contentToString(): String {\n return this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual fun FloatArray.contentToString(): String {\n return this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation

warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual fun DoubleArray.contentToString(): String {\n    return this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual fun BooleanArray.contentToString(): String {\n    return this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual fun CharArray.contentToString(): String {\n    return this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayToString\")\npublic actual fun <T> Array<out T>?.contentToString(): String {\n    definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayToString\")\npublic actual fun ByteArray?.contentToString(): String {\n    definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayToString\")\npublic actual fun ShortArray?.contentToString(): String {\n    definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayToString\")\npublic actual fun IntArray?.contentToString(): String {\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayToString\")\npublic actual fun LongArray?.contentToString(): String {\n    definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayToString\")\npublic actual fun FloatArray?.contentToString(): String {\n    definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayToString\")\npublic actual fun DoubleArray?.contentToString(): String {\n    definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayToString\")\npublic actual fun BooleanArray?.contentToString(): String {\n    definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayToString\")\npublic actual fun CharArray?.contentToString(): String {\n    definedExternally\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n *

\n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun <T> Array<out T>.copyInto(destination: Array<T>, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): Array<T> {\n arrayCopy(this, destination, destinationOffset, startIndex, endIndex)\n return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun ByteArray.copyInto(destination: ByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ByteArray {\n arrayCopy(this.unsafeCast<Array<Byte>>(), destination.unsafeCast<Array<Byte>>(), destinationOffset, startIndex, endIndex)\n return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun ShortArray.copyInto(destination: ShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ShortArray {\n arrayCopy(this.unsafeCast<Array<Short>>(), destination.unsafeCast<Array<Short>>(), destinationOffset, startIndex, endIndex)\n return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun IntArray.copyInto(destination: IntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): IntArray {\n arrayCopy(this.unsafeCast<Array<Int>>(), destination.unsafeCast<Array<Int>>(), destinationOffset, startIndex, endIndex)\n return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the

same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive)
of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n
*/\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun LongArray.copyInto(destination: LongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): LongArray {\n    arrayCopy(this.unsafeCast<Array<Long>>(), destination.unsafeCast<Array<Long>>(), destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n
*/\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun FloatArray.copyInto(destination: FloatArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): FloatArray {\n    arrayCopy(this.unsafeCast<Array<Float>>(), destination.unsafeCast<Array<Float>>(), destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n *
\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n
*/\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): DoubleArray {\n    arrayCopy(this.unsafeCast<Array<Double>>(), destination.unsafeCast<Array<Double>>(), destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array
in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the

[destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun BooleanArray.copyInto(destination: BooleanArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): BooleanArray {\n arrayCopy(this.unsafeCast<Array<Boolean>>(), destination.unsafeCast<Array<Boolean>>(), destinationOffset, startIndex, endIndex)\n return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): CharArray {\n arrayCopy(this.unsafeCast<Array<Char>>(), destination.unsafeCast<Array<Char>>(), destinationOffset, startIndex, endIndex)\n return destination\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\", \"NOTHING_TO_INLINE\")\npublic actual inline fun <T> Array<out T>.copyOf(): Array<T> {\n return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline fun ByteArray.copyOf(): ByteArray {\n return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline fun ShortArray.copyOf(): ShortArray {\n return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline fun IntArray.copyOf(): IntArray {\n return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic actual fun LongArray.copyOf(): LongArray {\n return withType(\"LongArray\", this.asDynamic().slice())\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline fun FloatArray.copyOf(): FloatArray {\n return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline fun DoubleArray.copyOf(): DoubleArray {\n return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic actual fun BooleanArray.copyOf(): BooleanArray {\n return withType(\"BooleanArray\", this.asDynamic().slice())\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic actual fun CharArray.copyOf(): CharArray {\n return withType(\"CharArray\", this.asDynamic().slice())\n}\n\n/**\n * Returns new array which is a copy of the

original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic actual fun ByteArray.copyOf(newSize: Int): ByteArray {\n    require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n    return fillFrom(this, ByteArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic actual fun ShortArray.copyOf(newSize: Int): ShortArray {\n    require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n    return fillFrom(this, ShortArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic actual fun IntArray.copyOf(newSize: Int): IntArray {\n    require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n    return fillFrom(this, IntArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic actual fun LongArray.copyOf(newSize: Int): LongArray {\n    require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n    return withType(\"LongArray\", arrayCopyResize(this, newSize, 0L))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic actual fun FloatArray.copyOf(newSize: Int): FloatArray {\n    require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n    return fillFrom(this, FloatArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic actual fun DoubleArray.copyOf(newSize: Int): DoubleArray {\n    require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n    return fillFrom(this, DoubleArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with `false` values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `false` values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic actual fun BooleanArray.copyOf(newSize: Int): BooleanArray {\n    require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n    return withType(\"BooleanArray\", arrayCopyResize(this, newSize, false))\n}\n\n/**\n * Returns new array which is a

copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with null char (`\\u0000`) values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with null char (`\\u0000`) values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic actual fun CharArray.copyOf(newSize: Int): CharArray {\n    require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n    return withType(\"CharArray\", fillFrom(this, CharArray(newSize)))\n}\n\n/**\n * Returns new array which is a copy of the original
array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with `null` values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `null` values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizingCopyOf\n */\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\")\npublic actual fun <T> Array<out T>.copyOf(newSize: Int): Array<T?> {\n    require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n    return arrayCopyResize(this, newSize, null)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex]
is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\")\npublic actual fun <T> Array<out T>.copyOfRange(fromIndex: Int, toIndex: Int): Array<T> {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic actual fun ByteArray.copyOfRange(fromIndex: Int, toIndex: Int): ByteArray {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic actual fun ShortArray.copyOfRange(fromIndex: Int, toIndex: Int): ShortArray {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of
this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic actual fun IntArray.copyOfRange(fromIndex: Int, toIndex: Int): IntArray {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic actual fun LongArray.copyOfRange(fromIndex: Int, toIndex: Int): LongArray {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return withType(\"LongArray\", this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which

is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic actual fun FloatArray.copyOfRange(fromIndex: Int, toIndex: Int): FloatArray {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic actual fun DoubleArray.copyOfRange(fromIndex: Int, toIndex: Int): DoubleArray {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic actual fun BooleanArray.copyOfRange(fromIndex: Int, toIndex: Int): BooleanArray {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return withType(\"BooleanArray\", this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the specified range of
the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic actual fun CharArray.copyOfRange(fromIndex: Int, toIndex: Int): CharArray {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return withType(\"CharArray\", this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun <T> Array<T>.fill(element: T, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun ByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic

actual fun ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex
the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*/\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex]
is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*/\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun LongArray.fill(element: Long, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*/\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun FloatArray.fill(element:
Float, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*/\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun DoubleArray.fill(element: Double, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or
its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*/\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun BooleanArray.fill(element: Boolean, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n

```
 * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun CharArray.fill(element: Char, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\", \"NOTHING_TO_INLINE\")\npublic actual inline operator fun <T> Array<out T>.plus(element: T): Array<T> {\n    return this.asDynamic().concat(arrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun ByteArray.plus(element:
 Byte): ByteArray {\n    return plus(byteArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun ShortArray.plus(element: Short): ShortArray {\n    return plus(shortArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun IntArray.plus(element: Int): IntArray {\n    return plus(intArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun LongArray.plus(element: Long): LongArray {\n    return plus(longArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic
 actual inline operator fun FloatArray.plus(element: Float): FloatArray {\n    return plus(floatArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun DoubleArray.plus(element: Double): DoubleArray {\n    return plus(doubleArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun BooleanArray.plus(element: Boolean): BooleanArray {\n    return plus(booleanArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun CharArray.plus(element: Char): CharArray {\n    return plus(charArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of
 the original array and then all elements of the given [elements] collection.\n */\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\")\npublic actual operator fun <T> Array<out T>.plus(elements: Collection<T>): Array<T> {\n    return arrayPlusCollection(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun ByteArray.plus(elements: Collection<Byte>): ByteArray {\n    return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun ShortArray.plus(elements: Collection<Short>): ShortArray {\n    return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements]
 collection.\n */\npublic actual operator fun IntArray.plus(elements: Collection<Int>): IntArray {\n    return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun LongArray.plus(elements: Collection<Long>): LongArray {\n    return arrayPlusCollection(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun FloatArray.plus(elements: Collection<Float>): FloatArray {\n    return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n *
```

Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun DoubleArray.plus(elements: Collection<Double>): DoubleArray {\n return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun BooleanArray.plus(elements: Collection<Boolean>): BooleanArray {\n return arrayPlusCollection(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun CharArray.plus(elements: Collection<Char>): CharArray {\n return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\", \"NOTHING_TO_INLINE\")\npublic actual inline operator fun <T> Array<out T>.plus(elements: Array<out T>): Array<T> {\n return this.asDynamic().concat(elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun ByteArray.plus(elements: ByteArray): ByteArray {\n return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun ShortArray.plus(elements: ShortArray): ShortArray {\n return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun IntArray.plus(elements: IntArray): IntArray {\n return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array
and then all elements of the given [elements] array.\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun LongArray.plus(elements: LongArray): LongArray {\n return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun FloatArray.plus(elements: FloatArray): FloatArray {\n return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun DoubleArray.plus(elements: DoubleArray): DoubleArray {\n return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic
actual inline operator fun BooleanArray.plus(elements: BooleanArray): BooleanArray {\n return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun CharArray.plus(elements: CharArray): CharArray {\n return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\", \"NOTHING_TO_INLINE\")\npublic actual inline fun <T> Array<out T>.plusElement(element: T): Array<T> {\n return this.asDynamic().concat(arrayOf(element))\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@library(\"primitiveArraySort\")\npublic actual fun IntArray.sort(): Unit {\n definedExternally\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic actual fun LongArray.sort(): Unit {\n @Suppress(\"DEPRECATION\")\n if (size > 1) sort { a: Long, b: Long -> a.compareTo(b) }\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@library(\"primitiveArraySort\")\npublic actual fun ByteArray.sort(): Unit {\n definedExternally\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@library(\"primitiveArraySort\")\npublic actual fun ShortArray.sort(): Unit {\n definedExternally\n}\n\n/**\n

* Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@library(\"primitiveArraySort\")\npublic actual fun DoubleArray.sort(): Unit {\n definedExternally\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@library(\"primitiveArraySort\")\npublic actual fun FloatArray.sort():
Unit {\n definedExternally\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@library(\"primitiveArraySort\")\npublic actual fun CharArray.sort(): Unit {\n definedExternally\n}\n\n/**\n * Sorts the array in-place according to the natural order of its elements.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n * \n * @sample samples.collections.Arrays.Sorting.sortArrayOfComparable\n */\npublic actual fun <T : Comparable<T>> Array<out T>.sort(): Unit {\n if (size > 1) sortArray(this)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparison] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\n@Deprecated(\"Use sortWith instead\", ReplaceWith(\"this.sortWith(Comparator(comparison))\"))\n@DeprecatedSinceKotlin(warningSince
= \"1.6\")\npublic fun <T> Array<out T>.sort(comparison: (a: T, b: T) -> Int): Unit {\n if (size > 1) sortArrayWith(this, comparison)\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArrayOfComparable\n */\n@SinceKotlin(\"1.4\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun <T : Comparable<T>> Array<out T>.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex,
toIndex, size)\n sortArrayWith(this, fromIndex, toIndex, naturalOrder())\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n */\n@SinceKotlin(\"1.4\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun ByteArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n val subarray = this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<ByteArray>()\n subarray.sort()\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param
fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n */\n@SinceKotlin(\"1.4\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun ShortArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n val subarray = this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<ShortArray>()\n subarray.sort()\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n
* \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n

*/\n@SinceKotlin(\"1.4\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun IntArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n val subarray = this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<IntArray>()\n subarray.sort()\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException
if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n */\n@SinceKotlin(\"1.4\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun LongArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n sortArrayWith(this.unsafeCast<Array<Long>>(), fromIndex, toIndex, naturalOrder())\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n */\n@SinceKotlin(\"1.4\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun FloatArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n val subarray = this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<FloatArray>()\n subarray.sort()\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n */\n@SinceKotlin(\"1.4\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun DoubleArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex,
toIndex, size)\n val subarray = this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<DoubleArray>()\n subarray.sort()\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n */\n@SinceKotlin(\"1.4\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun CharArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n val subarray = this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<CharArray>()\n subarray.sort()\n}\n\n/**\n * Sorts the array
in-place according to the order specified by the given [comparison] function.\n */\n@Deprecated(\"Use other sorting functions from the Standard Library\")\n@DeprecatedSinceKotlin(warningSince = \"1.6\")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.sort(noinline comparison: (a: Byte, b: Byte) -> Int): Unit {\n asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparison] function.\n */\n@Deprecated(\"Use other sorting functions from the Standard Library\")\n@DeprecatedSinceKotlin(warningSince = \"1.6\")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.sort(noinline comparison: (a: Short, b: Short) -> Int): Unit {\n asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given

[comparison] function.\n */\n@Deprecated(\"Use other sorting functions from the Standard Library\")\n@DeprecatedSinceKotlin(warningSince = \"1.6\")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.sort(noinline comparison: (a: Int, b: Int) -> Int): Unit {\n asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparison] function.\n */\n@Deprecated(\"Use other sorting functions from the Standard Library\")\n@DeprecatedSinceKotlin(warningSince = \"1.6\")\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.sort(noinline comparison: (a: Long, b: Long) -> Int): Unit {\n asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparison] function.\n */\n@Deprecated(\"Use other sorting functions from the Standard Library\")\n@DeprecatedSinceKotlin(warningSince = \"1.6\")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.sort(noinline comparison: (a: Float, b: Float) -> Int): Unit {\n asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparison]
function.\n */\n@Deprecated(\"Use other sorting functions from the Standard Library\")\n@DeprecatedSinceKotlin(warningSince = \"1.6\")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.sort(noinline comparison: (a: Double, b: Double) -> Int): Unit {\n asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparison] function.\n */\n@Deprecated(\"Use other sorting functions from the Standard Library\")\n@DeprecatedSinceKotlin(warningSince = \"1.6\")\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.sort(noinline comparison: (a: Char, b: Char) -> Int): Unit {\n asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic actual fun <T> Array<out T>.sortWith(comparator: Comparator<in T>): Unit {\n if (size
> 1) sortArrayWith(this, comparator)\n}\n\n/**\n * Sorts a range in the array in-place with the given [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.4\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun <T> Array<out T>.sortWith(comparator: Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n sortArrayWith(this, fromIndex, toIndex, comparator)\n}\n\n/**\n * Returns a *typed* object array containing
all of the elements of this primitive array.\n */\npublic actual fun ByteArray.toTypedArray(): Array<Byte> {\n return js(\"[]\").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun ShortArray.toTypedArray(): Array<Short> {\n return js(\"[]\").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun IntArray.toTypedArray(): Array<Int> {\n return js(\"[]\").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun LongArray.toTypedArray(): Array<Long> {\n return js(\"[]\").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun FloatArray.toTypedArray(): Array<Float> {\n return js(\"[]\").slice.call(this)\n}\n\n/**\n * Returns a
*typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun DoubleArray.toTypedArray(): Array<Double> {\n return js(\"[]\").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun BooleanArray.toTypedArray(): Array<Boolean> {\n return js(\"[]\").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun

CharArray.toTypedArray(): Array<Char> {\n    return Array(size) { index -> this[index] }\n}\n\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n@file:kotlin.jvm.JvmName(\"ComparisonsKt\")\n@file:kotlin.jvm.JvmMultifileClass\n\npackage kotlin.comparisons\n\n/**\n * Compares two values using the specified functions [selectors] to calculate the result of the comparison.\n * The functions are called sequentially, receive the given values [a] and [b] and return [Comparable]\n * objects. As soon as the [Comparable] instances returned by a function for [a] and [b] values do not\n * compare as equal, the result of that comparison is returned.\n *\n * @sample samples.comparisons.Comparisons.compareValuesByWithSelectors\n */\npublic fun <T> compareValuesBy(a: T, b: T, vararg selectors: (T) -> Comparable<*>?): Int {\n    require(selectors.size > 0)\n    return compareValuesByImpl(a, b, selectors)\n}\n\nprivate fun <T> compareValuesByImpl(a: T, b: T, selectors: Array<out (T) -> Comparable<*>?>): Int {\n    for (fn in selectors) {\n        val v1 = fn(a)\n        val v2 = fn(b)\n        val diff = compareValues(v1, v2)\n        if (diff != 0) return diff\n    }\n    return 0\n}\n\n/**\n * Compares two values using the specified [selector] function to calculate the result of the comparison.\n * The function is applied to the given values [a] and [b] and return [Comparable] objects.\n * The result of comparison of these [Comparable] instances is returned.\n *\n * @sample samples.comparisons.Comparisons.compareValuesByWithSingleSelector\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> compareValuesBy(a: T, b: T, selector: (T) -> Comparable<*>?): Int {\n    return compareValues(selector(a), selector(b))\n}\n\n/**\n * Compares two values using the specified [selector] function to calculate the result of the comparison.\n * The function is applied to the given values [a] and [b] and return objects of type K which are then being\n * compared with the given [comparator].\n *\n * @sample samples.comparisons.Comparisons.compareValuesByWithComparator\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T, K> compareValuesBy(a: T, b: T, comparator: Comparator<in K>, selector: (T) -> K): Int {\n    return comparator.compare(selector(a), selector(b))\n}\n\n//// Not so useful without type inference for receiver of expression\n//// compareValuesWith(v1, v2, compareBy { it.prop1 } thenByDescending { it.prop2 })\n///**\n// * Compares two values using the specified [comparator].\n// */\n//@Suppress(\"NOTHING_TO_INLINE\")\n//public inline fun <T> compareValuesWith(a: T, b: T, comparator: Comparator<T>): Int = comparator.compare(a, b)\n//\n\n\n/**\n * Compares two nullable [Comparable] values. Null is considered less than any value.\n *\n * @sample samples.comparisons.Comparisons.compareValues\n */\npublic fun <T : Comparable<*>> compareValues(a: T?, b: T?): Int {\n    if (a === b) return 0\n    if (a == null) return -1\n    if (b == null) return 1\n\n    @Suppress(\"UNCHECKED_CAST\")\n    return (a as Comparable<Any>).compareTo(b)\n}\n\n/**\n * Creates a comparator using the sequence of functions to calculate a result of comparison.\n * The functions are called sequentially, receive the given values `a` and `b` and return [Comparable]\n * objects. As soon as the [Comparable] instances returned by a function for `a` and `b` values do not\n * compare as equal, the result of that comparison is returned from the [Comparator].\n *\n * @sample samples.comparisons.Comparisons.compareByWithSelectors\n */\npublic fun <T> compareBy(vararg selectors: (T) -> Comparable<*>?): Comparator<T> {\n    require(selectors.size > 0)\n    return Comparator { a, b -> compareValuesByImpl(a, b, selectors) }\n}\n\n\n/**\n * Creates a comparator using the function to transform value to a [Comparable] instance for comparison.\n *\n * @sample samples.comparisons.Comparisons.compareByWithSingleSelector\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> compareBy(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\n    Comparator { a, b -> compareValuesBy(a, b, selector) }\n\n/**\n * Creates a comparator using the [selector] function to transform values being compared and then applying\n * the specified [comparator] to compare transformed values.\n *\n * @sample samples.comparisons.Comparisons.compareByWithComparator\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T, K> compareBy(comparator: Comparator<in K>, crossinline selector: (T) -> K): Comparator<T> =\n    Comparator { a, b -> compareValuesBy(a, b, comparator, selector) }\n\n/**\n * Creates a descending comparator using the function to transform value to a [Comparable] instance for comparison.\n *\n * @sample samples.comparisons.Comparisons.compareByDescendingWithSingleSelector\n

*/\n@kotlin.internal.InlineOnly\npublic inline fun <T> compareByDescending(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\n    Comparator { a, b -> compareValuesBy(b, a, selector) }\n\n/**\n * Creates a descending comparator using the [selector] function to transform values being compared and then applying\n * the specified [comparator] to compare transformed values.\n *\n * Note that an order of [comparator] is reversed by this wrapper.\n *\n * @sample samples.comparisons.Comparisons.compareByDescendingWithComparator\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T, K> compareByDescending(comparator: Comparator<in K>, crossinline selector: (T) -> K): Comparator<T> =\n    Comparator { a, b -> compareValuesBy(b, a, comparator, selector) }\n\n/**\n * Creates a comparator comparing values after the primary comparator defined them equal. It uses\n * the function to transform value to a [Comparable] instance for comparison.\n *\n * @sample samples.comparisons.Comparisons.thenBy\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Comparator<T>.thenBy(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\n    Comparator { a, b ->\n        val previousCompare = this@thenBy.compare(a, b)\n        if (previousCompare != 0) previousCompare else compareValuesBy(a, b, selector)\n    }\n\n/**\n * Creates a comparator comparing values after the primary comparator defined them equal. It uses\n * the [selector] function to transform values and then compares them with the given\n [comparator].\n *\n * @sample samples.comparisons.Comparisons.thenByWithComparator\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T, K> Comparator<T>.thenBy(comparator: Comparator<in K>, crossinline selector: (T) -> K): Comparator<T> =\n    Comparator { a, b ->\n        val previousCompare = this@thenBy.compare(a, b)\n        if (previousCompare != 0) previousCompare else compareValuesBy(a, b, comparator, selector)\n    }\n\n/**\n * Creates a descending comparator using the primary comparator and\n * the function to transform value to a [Comparable] instance for comparison.\n *\n * @sample samples.comparisons.Comparisons.thenByDescending\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Comparator<T>.thenByDescending(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\n    Comparator { a, b ->\n        val previousCompare = this@thenByDescending.compare(a, b)\n        if (previousCompare != 0) previousCompare else compareValuesBy(b, a, selector)\n    }\n\n/**\n * Creates a descending comparator comparing values after the primary comparator defined them equal. It uses\n * the [selector] function to transform values and then compares them with the given [comparator].\n *\n * @sample samples.comparisons.Comparisons.thenByDescendingWithComparator\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T, K> Comparator<T>.thenByDescending(comparator: Comparator<in K>, crossinline selector: (T) -> K): Comparator<T> =\n    Comparator { a, b ->\n        val previousCompare = this@thenByDescending.compare(a, b)\n        if (previousCompare != 0) previousCompare else compareValuesBy(b, a, comparator, selector)\n    }\n\n/**\n * Creates a comparator using the primary comparator and function to calculate a result of comparison.\n *\n * @sample samples.comparisons.Comparisons.thenComparator\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Comparator<T>.thenComparator(crossinline comparison: (a: T, b: T) -> Int): Comparator<T> =\n    Comparator {
 a, b ->\n        val previousCompare = this@thenComparator.compare(a, b)\n        if (previousCompare != 0) previousCompare else comparison(a, b)\n    }\n\n/**\n * Combines this comparator and the given [comparator] such that the latter is applied only\n * when the former considered values equal.\n *\n * @sample samples.comparisons.Comparisons.then\n */\npublic infix fun <T> Comparator<T>.then(comparator: Comparator<in T>): Comparator<T> =\n    Comparator { a, b ->\n        val previousCompare = this@then.compare(a, b)\n        if (previousCompare != 0) previousCompare else comparator.compare(a, b)\n    }\n\n/**\n * Combines this comparator and the given [comparator] such that the latter is applied only\n * when the former considered values equal.\n *\n * @sample samples.comparisons.Comparisons.thenDescending\n */\npublic infix fun <T> Comparator<T>.thenDescending(comparator: Comparator<in T>): Comparator<T> =\n    Comparator<T> { a, b ->\n        val previousCompare = this@thenDescending.compare(a,
 b)\n        if (previousCompare != 0) previousCompare else comparator.compare(b, a)\n    }\n\n// Not so useful without type inference for receiver of expression\n/**\n * Extends the given [comparator] of non-nullable values to

a comparator of nullable values\n * considering `null` value less than any other value.\n *\n * @sample samples.comparisons.Comparisons.nullsFirstLastWithComparator\n */\npublic fun <T : Any> nullsFirst(comparator: Comparator<in T>): Comparator<T?> =\n    Comparator { a, b ->\n        when {\n            a === b -> 0\n            a == null -> -1\n            b == null -> 1\n            else -> comparator.compare(a, b)\n        }\n    }\n\n/**\n * Provides a comparator of nullable [Comparable] values\n * considering `null` value less than any other value.\n *\n * @sample samples.comparisons.Comparisons.nullsFirstLastComparator\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T : Comparable<T>> nullsFirst(): Comparator<T?> = nullsFirst(naturalOrder())\n\n/**\n * Extends the given [comparator] of non-nullable values to a comparator of nullable values\n * considering `null` value greater than any other value.\n *\n * @sample samples.comparisons.Comparisons.nullsFirstLastWithComparator\n */\npublic fun <T : Any> nullsLast(comparator: Comparator<in T>): Comparator<T?> =\n    Comparator { a, b ->\n        when {\n            a === b -> 0\n            a == null -> 1\n            b == null -> -1\n            else -> comparator.compare(a, b)\n        }\n    }\n\n/**\n * Provides a comparator of nullable [Comparable] values\n * considering `null` value greater than any other value.\n *\n * @sample samples.comparisons.Comparisons.nullsFirstLastComparator\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T : Comparable<T>> nullsLast(): Comparator<T?> = nullsLast(naturalOrder())\n\n/**\n * Returns a comparator that compares [Comparable] objects in natural order.\n *\n * @sample samples.comparisons.Comparisons.naturalOrderComparator\n */\npublic fun <T : Comparable<T>> naturalOrder(): Comparator<T> = @Suppress(\"UNCHECKED_CAST\") (NaturalOrderComparator as Comparator<T>)\n\n/**\n * Returns a comparator that compares [Comparable] objects in reversed natural order.\n *\n * @sample samples.comparisons.Comparisons.nullsFirstLastWithComparator\n */\npublic fun <T : Comparable<T>> reverseOrder(): Comparator<T> = @Suppress(\"UNCHECKED_CAST\") (ReverseOrderComparator as Comparator<T>)\n\n/**\n *  Returns a comparator that imposes the reverse ordering of this comparator.\n *\n *  @sample samples.comparisons.Comparisons.reversed\n */\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\")\npublic fun <T> Comparator<T>.reversed(): Comparator<T> = when (this) {\n    is ReversedComparator -> this.comparator\n    NaturalOrderComparator -> @Suppress(\"UNCHECKED_CAST\") (ReverseOrderComparator as Comparator<T>)\n    ReverseOrderComparator -> @Suppress(\"UNCHECKED_CAST\") (NaturalOrderComparator as Comparator<T>)\n    else -> ReversedComparator(this)\n}\n\n\nprivate class ReversedComparator<T>(public val comparator: Comparator<T>) : Comparator<T> {\n    override fun compare(a: T, b: T): Int = comparator.compare(b, a)\n    @Suppress(\"VIRTUAL_MEMBER_HIDDEN\")\n    fun reversed(): Comparator<T> = comparator\n}\n\nprivate object NaturalOrderComparator : Comparator<Comparable<Any>> {\n    override fun compare(a: Comparable<Any>, b: Comparable<Any>): Int = a.compareTo(b)\n    @Suppress(\"VIRTUAL_MEMBER_HIDDEN\")\n    fun reversed(): Comparator<Comparable<Any>> = ReverseOrderComparator\n}\n\nprivate object ReverseOrderComparator : Comparator<Comparable<Any>> {\n    override fun compare(a: Comparable<Any>, b: Comparable<Any>): Int = b.compareTo(a)\n    @Suppress(\"VIRTUAL_MEMBER_HIDDEN\")\n    fun reversed(): Comparator<Comparable<Any>> = NaturalOrderComparator\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can
be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"StandardKt\")\npackage kotlin\n\nimport kotlin.contracts.*\n\n/**\n * An exception is thrown to indicate that a method body remains to be implemented.\n */\npublic class NotImplementedError(message: String = \"An operation is not implemented.\") : Error(message)\n\n/**\n * Always throws [NotImplementedError] stating that operation is not implemented.\n */\n\n@kotlin.internal.InlineOnly\npublic inline fun TODO(): Nothing = throw NotImplementedError()\n\n/**\n * Always throws [NotImplementedError] stating that operation is not implemented.\n *\n * @param reason a string explaining why the implementation is missing.\n */\n@kotlin.internal.InlineOnly\npublic inline fun TODO(reason:

String): Nothing = throw NotImplementedError(\"An operation is not implemented: $reason\")\n\n\n\n/**\n * Calls the specified function [block] and returns its result.\n *\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#run).\n */\n@kotlin.internal.InlineOnly\npublic inline fun <R> run(block: () -> R): R {\n contract {\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n }\n return block()\n}\n\n/**\n * Calls the specified function [block] with `this` value as its receiver and returns its result.\n *\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#run).\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> T.run(block: T.() -> R): R {\n contract {\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n }\n return block()\n}\n\n/**\n * Calls the specified function [block] with the given [receiver] as its receiver and returns its result.\n *\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#with).\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> with(receiver: T, block: T.() -> R): R {\n contract {\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n }\n return receiver.block()\n}\n\n/**\n * Calls the specified function [block] with `this` value as its receiver and returns `this` value.\n *\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#apply).\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> T.apply(block: T.() -> Unit): T {\n contract {\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n }\n block()\n return this\n}\n\n/**\n * Calls the specified function [block] with `this` value as its argument and returns `this` value.\n *\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#also).\n */\n@kotlin.internal.InlineOnly\n@SinceKotlin(\"1.1\")\npublic inline fun <T> T.also(block: (T) -> Unit): T {\n contract {\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n }\n block(this)\n return this\n}\n\n/**\n * Calls the specified function [block] with `this` value as its argument and returns its result.\n *\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#let).\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> T.let(block: (T) -> R): R {\n contract {\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n }\n return block(this)\n}\n\n/**\n * Returns `this` value if it satisfies the given [predicate] or `null`, if it doesn't.\n *\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#takeif-and-takeunless).\n */\n@kotlin.internal.InlineOnly\n@SinceKotlin(\"1.1\")\npublic inline fun <T> T.takeIf(predicate: (T) -> Boolean): T? {\n contract {\n callsInPlace(predicate, InvocationKind.EXACTLY_ONCE)\n }\n return if (predicate(this)) this else null\n}\n\n/**\n * Returns `this` value if it _does not_ satisfy the given [predicate] or `null`, if it does.\n *\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#takeif-and-takeunless).\n */\n@kotlin.internal.InlineOnly\n@SinceKotlin(\"1.1\")\npublic inline fun <T> T.takeUnless(predicate: (T) -> Boolean): T? {\n contract {\n callsInPlace(predicate, InvocationKind.EXACTLY_ONCE)\n }\n return if (!predicate(this)) this else null\n}\n\n/**\n * Executes the given function [action] specified number of [times].\n *\n * A zero-based index of current iteration is passed as a parameter to [action].\n *\n * @sample samples.misc.ControlFlow.repeat\n */\n@kotlin.internal.InlineOnly\npublic inline fun repeat(times: Int, action: (Int) -> Unit) {\n contract {\n callsInPlace(action) }\n\n for (index in 0 until times) {\n action(index)\n }\n}\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.comparisons\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.js.*\n\n/**\n * Returns the greater of two values.\n * \n * If values are equal, returns the first one.\n */\n@SinceKotlin(\"1.1\")\npublic actual fun <T : Comparable<T>> maxOf(a: T, b: T): T {\n return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two

values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Byte, b: Byte): Byte {\n    return maxOf(a.toInt(), b.toInt()).unsafeCast<Byte>()\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Short, b: Short): Short {\n    return maxOf(a.toInt(), b.toInt()).unsafeCast<Short>()\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Int, b: Int): Int {\n    return JsMath.max(a, b)\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline fun maxOf(a: Long, b: Long): Long {\n    return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n * \n * If either value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Float, b: Float): Float {\n    return JsMath.max(a, b)\n}\n\n/**\n * Returns the greater of two values.\n * \n * If either value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline
fun maxOf(a: Double, b: Double): Double {\n    return JsMath.max(a, b)\n}\n\n/**\n * Returns the greater of three values.\n * \n * If there are multiple equal maximal values, returns the first of them.\n */\n@SinceKotlin(\"1.1\")\npublic actual fun <T : Comparable<T>> maxOf(a: T, b: T, c: T): T {\n    return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Byte, b: Byte, c: Byte): Byte {\n    return JsMath.max(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Byte>()\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Short, b: Short, c: Short): Short {\n    return JsMath.max(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Short>()\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Int, b: Int, c: Int):
Int {\n    return JsMath.max(a, b, c)\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Long, b: Long, c: Long): Long {\n    return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three values.\n * \n * If any value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Float, b: Float, c: Float): Float {\n    return JsMath.max(a, b, c)\n}\n\n/**\n * Returns the greater of three values.\n * \n * If any value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Double, b: Double, c: Double): Double {\n    return JsMath.max(a, b, c)\n}\n\n/**\n * Returns the greater of the given values.\n * \n * If there are multiple equal maximal values, returns the first of them.\n */\n@SinceKotlin(\"1.4\")\npublic actual fun <T : Comparable<T>> maxOf(a: T, vararg other:
T): T {\n    var max = a\n    for (e in other) max = maxOf(max, e)\n    return max\n}\n\n/**\n * Returns the greater of the given values.\n */\n@SinceKotlin(\"1.4\")\npublic actual fun maxOf(a: Byte, vararg other: Byte): Byte {\n    var max = a\n    for (e in other) max = maxOf(max, e)\n    return max\n}\n\n/**\n * Returns the greater of the given values.\n */\n@SinceKotlin(\"1.4\")\npublic actual fun maxOf(a: Short, vararg other: Short): Short {\n    var max = a\n    for (e in other) max = maxOf(max, e)\n    return max\n}\n\n/**\n * Returns the greater of the given values.\n */\n@SinceKotlin(\"1.4\")\npublic actual fun maxOf(a: Int, vararg other: Int): Int {\n    var max = a\n    for (e in other) max = maxOf(max, e)\n    return max\n}\n\n/**\n * Returns the greater of the given values.\n */\n@SinceKotlin(\"1.4\")\npublic actual fun maxOf(a: Long, vararg other: Long): Long {\n    var max = a\n    for (e in other) max = maxOf(max, e)\n    return max\n}\n\n/**\n * Returns the greater of
the given values.\n * \n * If any value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.4\")\npublic actual fun maxOf(a: Float, vararg other: Float): Float {\n    var max = a\n    for (e in other) max = maxOf(max, e)\n    return max\n}\n\n/**\n * Returns the greater of the given values.\n * \n * If any value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.4\")\npublic actual fun maxOf(a: Double, vararg other: Double): Double {\n    var max = a\n    for (e in other) max = maxOf(max, e)\n    return max\n}\n\n/**\n * Returns the smaller of two values.\n * \n * If values are equal, returns the first one.\n */\n@SinceKotlin(\"1.1\")\npublic actual fun <T : Comparable<T>> minOf(a: T, b: T): T {\n    return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Byte, b: Byte): Byte {\n

return minOf(a.toInt(), b.toInt()).unsafeCast<Byte>()\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Short, b: Short): Short {\n return minOf(a.toInt(), b.toInt()).unsafeCast<Short>()\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Int, b: Int): Int {\n return JsMath.min(a, b)\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline fun minOf(a: Long, b: Long): Long {\n return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n * \n * If either value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Float, b: Float): Float {\n return JsMath.min(a, b)\n}\n\n/**\n * Returns the smaller of two values.\n * \n * If either value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun
minOf(a: Double, b: Double): Double {\n return JsMath.min(a, b)\n}\n\n/**\n * Returns the smaller of three values.\n * \n * If there are multiple equal minimal values, returns the first of them.\n */\n@SinceKotlin(\"1.1\")\npublic actual fun <T : Comparable<T>> minOf(a: T, b: T, c: T): T {\n return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Byte, b: Byte, c: Byte): Byte {\n return JsMath.min(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Byte>()\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Short, b: Short, c: Short): Short {\n return JsMath.min(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Short>()\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Int, b: Int, c: Int): Int
{\n return JsMath.min(a, b, c)\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Long, b: Long, c: Long): Long {\n return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns the smaller of three values.\n * \n * If any value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Float, b: Float, c: Float): Float {\n return JsMath.min(a, b, c)\n}\n\n/**\n * Returns the smaller of three values.\n * \n * If any value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Double, b: Double, c: Double): Double {\n return JsMath.min(a, b, c)\n}\n\n/**\n * Returns the smaller of the given values.\n * \n * If there are multiple equal minimal values, returns the first of them.\n */\n@SinceKotlin(\"1.4\")\npublic actual fun <T : Comparable<T>> minOf(a: T, vararg other: T): T
{\n var min = a\n for (e in other) min = minOf(min, e)\n return min\n}\n\n/**\n * Returns the smaller of the given values.\n */\n@SinceKotlin(\"1.4\")\npublic actual fun minOf(a: Byte, vararg other: Byte): Byte {\n var min = a\n for (e in other) min = minOf(min, e)\n return min\n}\n\n/**\n * Returns the smaller of the given values.\n */\n@SinceKotlin(\"1.4\")\npublic actual fun minOf(a: Short, vararg other: Short): Short {\n var min = a\n for (e in other) min = minOf(min, e)\n return min\n}\n\n/**\n * Returns the smaller of the given values.\n */\n@SinceKotlin(\"1.4\")\npublic actual fun minOf(a: Int, vararg other: Int): Int {\n var min = a\n for (e in other) min = minOf(min, e)\n return min\n}\n\n/**\n * Returns the smaller of the given values.\n */\n@SinceKotlin(\"1.4\")\npublic actual fun minOf(a: Long, vararg other: Long): Long {\n var min = a\n for (e in other) min = minOf(min, e)\n return min\n}\n\n/**\n * Returns the smaller of the given
values.\n * \n * If any value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.4\")\npublic actual fun minOf(a: Float, vararg other: Float): Float {\n var min = a\n for (e in other) min = minOf(min, e)\n return min\n}\n\n/**\n * Returns the smaller of the given values.\n * \n * If any value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.4\")\npublic actual fun minOf(a: Double, vararg other: Double): Double {\n var min = a\n for (e in other) min = minOf(min, e)\n return min\n}\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport kotlin.experimental.*\nimport kotlin.jvm.*\n\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@JvmInline\npu

blic value class ULong @PublishedApi internal constructor(@PublishedApi internal
val data: Long) : Comparable<ULong> {\n\n companion object {\n /**\n * A constant holding the minimum value an instance of ULong can have.\n */\n public const val MIN_VALUE: ULong = ULong(0)\n\n /**\n * A constant holding the maximum value an instance of ULong can have.\n */\n public const val MAX_VALUE: ULong = ULong(-1)\n\n /**\n * The number of bytes used to represent an instance of ULong in a binary form.\n */\n public const val SIZE_BYTES: Int = 8\n\n /**\n * The number of bits used to represent an instance of ULong in a binary form.\n */\n public const val SIZE_BITS: Int = 64\n }\n\n /**\n * Compares this value with the specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun compareTo(other: UByte): Int = this.compareTo(other.toULong())\n\n /**\n * Compares this value with the specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun compareTo(other: UShort): Int = this.compareTo(other.toULong())\n\n /**\n * Compares this value with the specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun compareTo(other: UInt): Int = this.compareTo(other.toULong())\n\n /**\n * Compares this value with the specified value for order.\n * Returns zero if this value is equal
to the specified other value, a negative number if it's less than other,\n * or a positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n @Suppress(\"OVERRIDE_BY_INLINE\")\n public override inline operator fun compareTo(other: ULong): Int = ulongCompare(this.data, other.data)\n\n /** Adds the other value to this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UByte): ULong = this.plus(other.toULong())\n /** Adds the other value to this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UShort): ULong = this.plus(other.toULong())\n /** Adds the other value to this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UInt): ULong = this.plus(other.toULong())\n /** Adds the other value to this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: ULong): ULong = ULong(this.data.plus(other.data))\n\n /** Subtracts the other value from this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: UByte): ULong = this.minus(other.toULong())\n /** Subtracts the other value from this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: UShort): ULong = this.minus(other.toULong())\n /** Subtracts the other value from this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: UInt): ULong = this.minus(other.toULong())\n /** Subtracts the other value from this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: ULong): ULong = ULong(this.data.minus(other.data))\n\n /** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: UByte): ULong = this.times(other.toULong())\n /** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline
operator fun times(other: UShort): ULong = this.times(other.toULong())\n /** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: UInt): ULong = this.times(other.toULong())\n /** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: ULong): ULong = ULong(this.data.times(other.data))\n\n /** Divides this value by the other value, truncating the result to an integer that is closer to zero. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UByte): ULong = this.div(other.toULong())\n /** Divides this value by the other value, truncating the result to an integer that is closer to zero. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UShort): ULong = this.div(other.toULong())\n /** Divides this value by the other value, truncating the result to an integer that is closer to zero.

*/\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UInt): ULong = this.div(other.toULong())\n /** Divides this value by the other value, truncating the result to an integer that is closer to zero. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: ULong): ULong = ulongDivide(this, other)\n\n /**\n * Calculates the remainder of truncating division of this value by the other value.\n * \n * The result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UByte): ULong = this.rem(other.toULong())\n /**\n * Calculates the remainder of truncating division of this value by the other value.\n * \n * The result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UShort): ULong = this.rem(other.toULong())\n /**\n * Calculates the remainder of truncating division of this value by the other value.\n * \n * The result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UInt): ULong = this.rem(other.toULong())\n /**\n * Calculates the remainder of truncating division of this value by the other value.\n * \n * The result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: ULong): ULong = ulongRemainder(this, other)\n\n /**\n * Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned types, the results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun floorDiv(other: UByte): ULong = this.floorDiv(other.toULong())\n /**\n * Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.\n *\n * For unsigned types, the results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun floorDiv(other: UShort): ULong = this.floorDiv(other.toULong())\n /**\n * Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned types, the results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun floorDiv(other: UInt): ULong = this.floorDiv(other.toULong())\n /**\n * Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned types, the results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun floorDiv(other: ULong): ULong = div(other)\n\n /**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned types, the remainders of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun mod(other: UByte): UByte = this.mod(other.toULong()).toUByte()\n /**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned types, the remainders of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun mod(other: UShort): UShort = this.mod(other.toULong()).toUShort()\n /**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned types, the remainders of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun mod(other: UInt): UInt = this.mod(other.toULong()).toUInt()\n /**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned types, the remainders of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun mod(other: ULong): ULong = rem(other)\n\n /**\n * Returns this value incremented by one.\n *\n * @sample samples.misc.Builtins.inc\n */\n @kotlin.internal.InlineOnly\n public inline operator fun inc(): ULong = ULong(data.inc())\n\n /**\n * Returns this value decremented by one.\n *\n * @sample samples.misc.Builtins.dec\n */\n @kotlin.internal.InlineOnly\n public inline operator fun dec(): ULong = ULong(data.dec())\n\n /** Creates a range from this value to the specified [other] value.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun rangeTo(other: ULong): ULongRange = ULongRange(this, other)\n\n /**\n * Shifts this value left by the [bitCount] number of bits.\n *\n * Note that only the six lowest-order bits of the [bitCount] are used as the shift distance.\n * The shift distance actually

used is therefore always in the range `0..63`.\n     */\n    @kotlin.internal.InlineOnly\n    public inline infix fun shl(bitCount: Int): ULong = ULong(data shl bitCount)\n\n    /**\n     * Shifts this value right by the [bitCount] number of bits, filling the leftmost bits with zeros.\n     *\n     * Note that only the six lowest-order bits of the [bitCount] are used as the shift distance.\n     * The shift distance actually used is therefore always in the range `0..63`.\n     */\n    @kotlin.internal.InlineOnly\n    public inline infix fun shr(bitCount: Int): ULong = ULong(data ushr bitCount)\n\n    /** Performs a bitwise AND operation between
the two values. */\n    @kotlin.internal.InlineOnly\n    public inline infix fun and(other: ULong): ULong = ULong(this.data and other.data)\n    /** Performs a bitwise OR operation between the two values. */\n    @kotlin.internal.InlineOnly\n    public inline infix fun or(other: ULong): ULong = ULong(this.data or other.data)\n    /** Performs a bitwise XOR operation between the two values. */\n    @kotlin.internal.InlineOnly\n    public inline infix fun xor(other: ULong): ULong = ULong(this.data xor other.data)\n    /** Inverts the bits in this value. */\n    @kotlin.internal.InlineOnly\n    public inline fun inv(): ULong = ULong(data.inv())\n\n    /**\n     * Converts this [ULong] value to [Byte].\n     *\n     * If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents\n     * the same numerical value as this `ULong`.\n     *\n     * The resulting `Byte` value is represented by the least significant 8 bits of this `ULong` value.\n     * Note
that the resulting `Byte` value may be negative.\n     */\n    @kotlin.internal.InlineOnly\n    public inline fun toByte(): Byte = data.toByte()\n    /**\n     * Converts this [ULong] value to [Short].\n     *\n     * If this value is less than or equals to [Short.MAX_VALUE], the resulting `Short` value represents\n     * the same numerical value as this `ULong`.\n     *\n     * The resulting `Short` value is represented by the least significant 16 bits of this `ULong` value.\n     * Note that the resulting `Short` value may be negative.\n     */\n    @kotlin.internal.InlineOnly\n    public inline fun toShort(): Short = data.toShort()\n    /**\n     * Converts this [ULong] value to [Int].\n     *\n     * If this value is less than or equals to [Int.MAX_VALUE], the resulting `Int` value represents\n     * the same numerical value as this `ULong`.\n     *\n     * The resulting `Int` value is represented by the least significant 32 bits of this `ULong` value.\n     * Note that the resulting
`Int` value may be negative.\n     */\n    @kotlin.internal.InlineOnly\n    public inline fun toInt(): Int = data.toInt()\n    /**\n     * Converts this [ULong] value to [Long].\n     *\n     * If this value is less than or equals to [Long.MAX_VALUE], the resulting `Long` value represents\n     * the same numerical value as this `ULong`. Otherwise the result is negative.\n     *\n     * The resulting `Long` value has the same binary representation as this `ULong` value.\n     */\n    @kotlin.internal.InlineOnly\n    public inline fun toLong(): Long = data\n\n    /**\n     * Converts this [ULong] value to [UByte].\n     *\n     * If this value is less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n     * the same numerical value as this `ULong`.\n     *\n     * The resulting `UByte` value is represented by the least significant 8 bits of this `ULong` value.\n     */\n    @kotlin.internal.InlineOnly\n    public inline fun toUByte(): UByte = data.toUByte()\n
    /**\n     * Converts this [ULong] value to [UShort].\n     *\n     * If this value is less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents\n     * the same numerical value as this `ULong`.\n     *\n     * The resulting `UShort` value is represented by the least significant 16 bits of this `ULong` value.\n     */\n    @kotlin.internal.InlineOnly\n    public inline fun toUShort(): UShort = data.toUShort()\n    /**\n     * Converts this [ULong] value to [UInt].\n     *\n     * If this value is less than or equals to [UInt.MAX_VALUE], the resulting `UInt` value represents\n     * the same numerical value as this `ULong`.\n     *\n     * The resulting `UInt` value is represented by the least significant 32 bits of this `ULong` value.\n     */\n    @kotlin.internal.InlineOnly\n    public inline fun toUInt(): UInt = data.toUInt()\n    /** Returns this value. */\n    @kotlin.internal.InlineOnly\n    public inline fun toULong(): ULong = this\n\n    /**\n
     * Converts this [ULong] value to [Float].\n     *\n     * The resulting value is the closest `Float` to this `ULong` value.\n     * In case when this `ULong` value is exactly between two `Float`s,\n     * the one with zero at least significant bit of mantissa is selected.\n     */\n    @kotlin.internal.InlineOnly\n    public inline fun toFloat(): Float = this.toDouble().toFloat()\n    /**\n     * Converts this [ULong] value to [Double].\n     *\n     * The resulting value is the closest `Double` to this `ULong` value.\n     * In case when this `ULong` value is exactly between two `Double`s,\n     * the one with zero at least significant bit of mantissa is selected.\n     */\n

@kotlin.internal.InlineOnly\n    public inline fun toDouble(): Double = ulongToDouble(data)\n\n    public override fun toString(): String = ulongToString(data)\n\n}\n\n/**\n * Converts this [Byte] value to [ULong].\n *\n * If this value is positive, the resulting `ULong` value represents the same numerical value
as this `Byte`.\n *\n * The least significant 8 bits of the resulting `ULong` value are the same as the bits of this `Byte` value,\n * whereas the most significant 56 bits are filled with the sign bit of this value.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Byte.toULong(): ULong = ULong(this.toLong())\n/**\n * Converts this [Short] value to [ULong].\n *\n * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Short`.\n *\n * The least significant 16 bits of the resulting `ULong` value are the same as the bits of this `Short` value,\n * whereas the most significant 48 bits are filled with the sign bit of this value.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Short.toULong(): ULong = ULong(this.toLong())\n/**\n * Converts this [Int] value to [ULong].\n *\n * If this value
is positive, the resulting `ULong` value represents the same numerical value as this `Int`.\n *\n * The least significant 32 bits of the resulting `ULong` value are the same as the bits of this `Int` value,\n * whereas the most significant 32 bits are filled with the sign bit of this value.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Int.toULong(): ULong = ULong(this.toLong())\n/**\n * Converts this [Long] value to [ULong].\n *\n * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Long`.\n *\n * The resulting `ULong` value has the same binary representation as this `Long` value.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Long.toULong(): ULong = ULong(this)\n\n/**\n * Converts this [Float] value to [ULong].\n *\n * The fractional part, if any, is rounded down towards zero.\n
* Returns zero if this `Float` value is negative or `NaN`, [ULong.MAX_VALUE] if it's bigger than `ULong.MAX_VALUE`.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Float.toULong(): ULong = doubleToULong(this.toDouble())\n/**\n * Converts this [Double] value to [ULong].\n *\n * The fractional part, if any, is rounded down towards zero.\n * Returns zero if this `Double` value is negative or `NaN`, [ULong.MAX_VALUE] if it's bigger than `ULong.MAX_VALUE`.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Double.toULong(): ULong = doubleToULong(this)\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"CollectionsKt\")\n\npackage
kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns 1st *element* from the list.\n * \n * Throws an [IndexOutOfBoundsException] if the size of this list is less than 1.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component1(): T {\n    return get(0)\n}\n\n/**\n * Returns 2nd *element* from the list.\n * \n * Throws an [IndexOutOfBoundsException] if the size of this list is less than 2.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component2(): T {\n    return get(1)\n}\n\n/**\n * Returns 3rd *element* from the list.\n * \n * Throws an [IndexOutOfBoundsException] if the size of this list is less than 3.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component3():
T {\n    return get(2)\n}\n\n/**\n * Returns 4th *element* from the list.\n * \n * Throws an [IndexOutOfBoundsException] if the size of this list is less than 4.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component4(): T {\n    return get(3)\n}\n\n/**\n * Returns 5th *element* from the list.\n * \n * Throws an [IndexOutOfBoundsException] if the size of this list is less than 5.\n

```
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component5(): T {\n    return get(4)\n}\n\n/**\n * Returns `true` if [element] is found in the collection.\n */\npublic operator fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.contains(element: T): Boolean {\n    if (this is Collection)\n return contains(element)\n    return indexOf(element) >= 0\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this collection.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic fun <T> Iterable<T>.elementAt(index: Int): T {\n    if (this is List)\n        return get(index)\n    return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"Collection doesn't contain element at index $index.\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this list.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>.elementAt(index: Int): T {\n    return get(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this collection.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\npublic fun <T> Iterable<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n    if (this is List)\n        return this.getOrElse(index, defaultValue)\n    if (index < 0)\n        return defaultValue(index)\n    val iterator = iterator()\n    var count = 0\n    while (iterator.hasNext()) {\n val element = iterator.next()\n        if (index == count++)\n            return element\n    }\n    return defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this list.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this collection.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\npublic fun <T> Iterable<T>.elementAtOrNull(index: Int): T? {\n    if (this is List)\n        return this.getOrNull(index)\n    if (index < 0)\n        return null\n    val iterator = iterator()\n    var count = 0\n    while (iterator.hasNext()) {\n val element = iterator.next()\n        if (index == count++)\n            return element\n    }\n    return null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this list.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>.elementAtOrNull(index: Int): T? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.find(predicate: (T) -> Boolean): T? {\n    return firstOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.findLast(predicate: (T) -> Boolean): T? {\n    return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>.findLast(predicate: (T) -> Boolean): T? {\n    return lastOrNull(predicate)\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the collection is empty.\n */\npublic fun <T> Iterable<T>.first(): T {\n    when (this) {\n        is List -> return this.first()\n        else -> {\n            val iterator = iterator()\n            if (!iterator.hasNext())\n                throw NoSuchElementException(\"Collection is empty.\")\n            return iterator.next()\n        }\n    }\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the list is empty.\n */\npublic fun <T> List<T>.first(): T {\n    if (isEmpty())\n throw NoSuchElementException(\"List is empty.\")\n    return this[0]\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun <T> Iterable<T>.first(predicate: (T) -> Boolean): T {\n    for (element in this) if (predicate(element))
```

```
return element\n    throw NoSuchElementException(\"Collection contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first non-null value produced by [transform] function being applied to elements of this collection in iteration order,\n * or throws [NoSuchElementException] if no non-null value was produced.\n * \n * @sample samples.collections.Collections.Transformations.firstNotNullOf\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Any> Iterable<T>.firstNotNullOf(transform: (T) -> R?): R {\n    return firstNotNullOfOrNull(transform) ?: throw NoSuchElementException(\"No element of the collection was transformed to a non-null value.\")\n}\n\n/**\n * Returns the first non-null value produced by [transform] function being applied to elements of this collection in iteration order,\n * or `null` if no non-null value was produced.\n * \n * @sample samples.collections.Collections.Transformations.firstNotNullOf\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Any> Iterable<T>.firstNotNullOfOrNull(transform: (T) -> R?): R? {\n    for (element in this) {\n        val result = transform(element)\n        if (result != null) {\n            return result\n        }\n    }\n    return null\n}\n\n/**\n * Returns the first element, or `null` if the collection is empty.\n */\npublic fun <T> Iterable<T>.firstOrNull(): T? {\n    when (this) {\n        is List -> {\n            if (isEmpty())\n                return null\n            else\n                return this[0]\n        }\n        else -> {\n            val iterator = iterator()\n            if (!iterator.hasNext())\n                return null\n            return iterator.next()\n        }\n    }\n}\n\n/**\n * Returns the first element, or `null` if the list is empty.\n */\npublic fun <T> List<T>.firstOrNull(): T? {\n    return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun <T> Iterable<T>.firstOrNull(predicate: (T) -> Boolean): T? {\n    for (element in this) if (predicate(element)) return element\n    return null\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this list.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>.getOrElse(index: Int, defaultValue: (Int) -> T): T {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this list.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n */\npublic fun <T> List<T>.getOrNull(index: Int): T? {\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns first index of [element], or -1 if the collection does not contain element.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.indexOf(element: T): Int {\n    if (this is List) return this.indexOf(element)\n    var index = 0\n    for (item in this) {\n        checkIndexOverflow(index)\n        if (element == item)\n            return index\n        index++\n    }\n    return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the list does not contain element.\n */\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\") // false warning, extension takes precedence in some cases\npublic fun <@kotlin.internal.OnlyInputTypes T> List<T>.indexOf(element: T): Int {\n    return indexOf(element)\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the collection does not contain such element.\n */\npublic inline fun <T> Iterable<T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n    var index = 0\n    for (item in this) {\n        checkIndexOverflow(index)\n        if (predicate(item))\n            return index\n        index++\n    }\n    return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the list does not contain such element.\n */\npublic inline fun <T> List<T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n    var index = 0\n    for (item in this) {\n        if (predicate(item))\n            return index\n        index++\n    }\n    return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the collection does not contain such element.\n */\npublic inline fun <T> Iterable<T>.indexOfLast(predicate: (T) -> Boolean): Int {\n    var lastIndex = -1\n    var index = 0\n    for (item in this) {\n        checkIndexOverflow(index)\n        if (predicate(item))\n            lastIndex = index\n        index++\n    }\n    return lastIndex\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the list does not contain such element.\n */\npublic inline fun <T> List<T>.indexOfLast(predicate: (T) -> Boolean): Int {\n    val iterator = this.listIterator(size)\n    while (iterator.hasPrevious()) {\n        if (predicate(iterator.previous())) {\n            return iterator.nextIndex()\n        }\n    }\n    return -1\n}\n\n/**\n * Returns the last element.\n * \n * @throws
```

NoSuchElementException if the collection is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun <T> Iterable<T>.last(): T {\n when (this) {\n is List -> return this.last()\n else -> {\n val iterator = iterator()\n if (!iterator.hasNext())\n throw NoSuchElementException(\"Collection is empty.\")\n var last = iterator.next()\n while (iterator.hasNext())\n last = iterator.next()\n return last\n }\n }\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the list is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun <T> List<T>.last(): T {\n if (isEmpty())\n throw NoSuchElementException(\"List is empty.\")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun <T> Iterable<T>.last(predicate: (T) -> Boolean): T {\n var last: T? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n last = element\n found
= true\n }\n }\n if (!found) throw NoSuchElementException(\"Collection contains no element matching the predicate.\")\n @Suppress(\"UNCHECKED_CAST\")\n return last as T\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun <T> List<T>.last(predicate: (T) -> Boolean): T {\n val iterator = this.listIterator(size)\n while (iterator.hasPrevious()) {\n val element = iterator.previous()\n if (predicate(element)) return element\n }\n throw NoSuchElementException(\"List contains no element matching the predicate.\")\n}\n\n/**\n * Returns last index of [element], or -1 if the collection does not contain element.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.lastIndexOf(element: T): Int {\n if (this is List) return this.lastIndexOf(element)\n var lastIndex
= -1\n var index = 0\n for (item in this) {\n checkIndexOverflow(index)\n if (element == item)\n lastIndex = index\n index++\n }\n return lastIndex\n}\n\n/**\n * Returns last index of [element], or -1 if the list does not contain element.\n */\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\") // false warning, extension takes precedence in some cases\npublic fun <@kotlin.internal.OnlyInputTypes T> List<T>.lastIndexOf(element: T): Int {\n return lastIndexOf(element)\n}\n\n/**\n * Returns the last element, or `null` if the collection is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun <T> Iterable<T>.lastOrNull(): T? {\n when (this) {\n is List -> return if (isEmpty()) null else this[size - 1]\n else -> {\n val iterator = iterator()\n if (!iterator.hasNext())\n return null\n var last = iterator.next()\n while (iterator.hasNext())\n last = iterator.next()\n return last\n }\n }\n}\n\n/**\n * Returns the last element, or `null` if the list is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun <T> List<T>.lastOrNull(): T? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun <T> Iterable<T>.lastOrNull(predicate: (T) -> Boolean): T? {\n var last: T? = null\n for (element in this) {\n if (predicate(element)) {\n last = element\n }\n }\n return last\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun <T> List<T>.lastOrNull(predicate: (T) -> Boolean): T? {\n val iterator
= this.listIterator(size)\n while (iterator.hasPrevious()) {\n val element = iterator.previous()\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns a random element from this collection.\n * \n * @throws NoSuchElementException if this collection is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.random(): T {\n return random(Random)\n}\n\n/**\n * Returns a random element from this collection using the specified source of randomness.\n * \n * @throws NoSuchElementException if this collection is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun <T> Collection<T>.random(random: Random): T {\n if (isEmpty())\n throw NoSuchElementException(\"Collection is empty.\")\n return elementAt(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this collection, or `null` if this collection is empty.\n

```
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c
 inline fun <T> Collection<T>.randomOrNull(): T? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this collection using the specified source of randomness, or `null` if this collection is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T>
Collection<T>.randomOrNull(random: Random): T? {\n    if (isEmpty())\n        return null\n    return
elementAt(random.nextInt(size))\n}\n\n/**\n * Returns the single element, or throws an exception if the collection is
empty or has more than one element.\n */\npublic fun <T> Iterable<T>.single(): T {\n    when (this) {\n        is List -
> return this.single()\n        else -> {\n            val iterator = iterator()\n            if (!iterator.hasNext())\n
throw NoSuchElementException(\"Collection is empty.\")\n            val single = iterator.next()\n            if
(iterator.hasNext())\n                throw IllegalArgumentException(\"Collection
 has more than one element.\")\n            return single\n        }\n    }\n}\n\n/**\n * Returns the single element, or
throws an exception if the list is empty or has more than one element.\n */\npublic fun <T> List<T>.single(): T {\n
return when (size) {\n        0 -> throw NoSuchElementException(\"List is empty.\")\n        1 -> this[0]\n        else ->
throw IllegalArgumentException(\"List has more than one element.\")\n    }\n}\n\n/**\n * Returns the single
element matching the given [predicate], or throws exception if there is no or more than one matching element.\n
*/\npublic inline fun <T> Iterable<T>.single(predicate: (T) -> Boolean): T {\n    var single: T? = null\n    var found
= false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) throw
IllegalArgumentException(\"Collection contains more than one matching element.\")\n            single = element\n
    found = true\n        }\n    }\n    if (!found)
 throw NoSuchElementException(\"Collection contains no element matching the predicate.\")\n
@Suppress(\"UNCHECKED_CAST\")\n    return single as T\n}\n\n/**\n * Returns single element, or `null` if the
collection is empty or has more than one element.\n */\npublic fun <T> Iterable<T>.singleOrNull(): T? {\n    when
(this) {\n        is List -> return if (size == 1) this[0] else null\n        else -> {\n            val iterator = iterator()\n
if (!iterator.hasNext())\n                return null\n            val single = iterator.next()\n            if (iterator.hasNext())\n
        return null\n            return single\n        }\n    }\n}\n\n/**\n * Returns single element, or `null` if the list is
empty or has more than one element.\n */\npublic fun <T> List<T>.singleOrNull(): T? {\n    return if (size == 1)
this[0] else null\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not
found or more than one element was
 found.\n */\npublic inline fun <T> Iterable<T>.singleOrNull(predicate: (T) -> Boolean): T? {\n    var single: T? =
null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n
      single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n *
Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is
negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T>
Iterable<T>.drop(n: Int): List<T> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if
(n == 0) return toList()\n    val list: ArrayList<T>\n    if (this is Collection<*>) {\n        val resultSize = size - n\n
if (resultSize <= 0)\n            return emptyList()\n        if (resultSize == 1)\n            return listOf(last())\n        list =
ArrayList<T>(resultSize)\n
        if (this is List<T>) {\n            if (this is RandomAccess) {\n                for (index in n until size)\n
list.add(this[index])\n            } else {\n                for (item in listIterator(n))\n                    list.add(item)\n            }\n
        return list\n        }\n    }\n    else {\n        list = ArrayList<T>()\n    }\n    var count = 0\n    for (item in this) {\n
  if (count >= n) list.add(item) else ++count\n    }\n    return list.optimizeReadOnlyList()\n}\n\n/**\n * Returns a list
containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n *
\n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> List<T>.dropLast(n: Int):
List<T> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy
 the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline
fun <T> List<T>.dropLastWhile(predicate: (T) -> Boolean): List<T> {\n    if (!isEmpty()) {\n        val iterator =
```

listIterator(size)\n while (iterator.hasPrevious()) {\n if (!predicate(iterator.previous())) {\n return take(iterator.nextIndex() + 1)\n }\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun <T> Iterable<T>.dropWhile(predicate: (T) -> Boolean): List<T> {\n var yielding = false\n val list = ArrayList<T>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns
a list containing only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun <T> Iterable<T>.filter(predicate: (T) -> Boolean): List<T> {\n return filterTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun <T> Iterable<T>.filterIndexed(predicate: (index: Int, T) -> Boolean): List<T> {\n return filterIndexedTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <T, C : MutableCollection<in T>> Iterable<T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return destination\n}\n\n/**\n * Returns a list containing all elements that are instances of specified type parameter R.\n * \n * @sample samples.collections.Collections.Filtering.filterIsInstance\n */\npublic inline fun <reified R> Iterable<*>.filterIsInstance(): List<@kotlin.internal.NoInfer R> {\n return filterIsInstanceTo(ArrayList<R>())\n}\n\n/**\n * Appends all elements that are instances of specified type parameter R to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterIsInstanceTo\n */\npublic inline fun <reified R, C : MutableCollection<in R>> Iterable<*>.filterIsInstanceTo(destination: C): C {\n for (element
in this) if (element is R) destination.add(element)\n return destination\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun <T> Iterable<T>.filterNot(predicate: (T) -> Boolean): List<T> {\n return filterNotTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns a list containing all elements that are not `null`.\n * \n * @sample samples.collections.Collections.Filtering.filterNotNull\n */\npublic fun <T : Any> Iterable<T?>.filterNotNull(): List<T> {\n return filterNotNullTo(ArrayList<T>())\n}\n\n/**\n * Appends all elements that are not `null` to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterNotNullTo\n */\npublic fun <C : MutableCollection<in T>, T : Any> Iterable<T?>.filterNotNullTo(destination: C): C {\n for (element in this) if (element != null) destination.add(element)\n return destination\n}\n\n/**\n
* Appends all elements not matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <T, C : MutableCollection<in T>> Iterable<T>.filterNotTo(destination: C, predicate: (T) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <T, C : MutableCollection<in T>> Iterable<T>.filterTo(destination: C, predicate: (T) -> Boolean): C {\n for (element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun <T> List<T>.slice(indices: IntRange): List<T> {\n if (indices.isEmpty()) return listOf()\n return this.subList(indices.start,

```
indices.endInclusive + 1).toList()\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun <T> List<T>.slice(indices: Iterable<Int>): List<T> {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list = ArrayList<T>(size)\n    for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun <T> Iterable<T>.take(n: Int): List<T> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (this is Collection<T>) {\n        if (n >= size) return toList()\n        if (n == 1) return listOf(first())\n    }\n    var count = 0\n    val list = ArrayList<T>(n)\n    for (item in this) {\n        list.add(item)\n        if (++count == n)\n            break\n    }\n    return list.optimizeReadOnlyList()\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun <T> List<T>.takeLast(n: Int): List<T> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(last())\n    val list = ArrayList<T>(n)\n    if (this is RandomAccess) {\n        for (index in size - n until size)\n            list.add(this[index])\n    } else {\n        for (item in listIterator(size - n))\n            list.add(item)\n    }\n    return list\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun <T> List<T>.takeLastWhile(predicate:
(T) -> Boolean): List<T> {\n    if (isEmpty())\n        return emptyList()\n    val iterator = listIterator(size)\n    while (iterator.hasPrevious()) {\n        if (!predicate(iterator.previous())) {\n            iterator.next()\n            val expectedSize = size - iterator.nextIndex()\n            if (expectedSize == 0) return emptyList()\n            return ArrayList<T>(expectedSize).apply {\n                while (iterator.hasNext())\n                    add(iterator.next())\n            }\n        }\n    }\n    return toList()\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun <T> Iterable<T>.takeWhile(predicate: (T) -> Boolean): List<T> {\n    val list = ArrayList<T>()\n    for (item in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n * Reverses elements in the list in-place.\n
 */\npublic expect fun <T> MutableList<T>.reverse(): Unit\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun <T> Iterable<T>.reversed(): List<T> {\n    if (this is Collection && size <= 1) return toList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Randomly shuffles elements in this list in-place using the specified [random] instance as the source of randomness.\n * \n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n */\n@SinceKotlin(\"1.3\")\npublic fun <T> MutableList<T>.shuffle(random: Random): Unit {\n    for (i in lastIndex downTo 1) {\n        val j = random.nextInt(i + 1)\n        this[j] = this.set(i, this[j])\n    }\n}\n\n/**\n * Sorts elements in the list in-place according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n
 */\npublic inline fun <T, R : Comparable<R>> MutableList<T>.sortBy(crossinline selector: (T) -> R?): Unit {\n    if (size > 1) sortWith(compareBy(selector))\n}\n\n/**\n * Sorts elements in the list in-place descending according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>> MutableList<T>.sortByDescending(crossinline selector: (T) -> R?): Unit {\n    if (size > 1) sortWith(compareByDescending(selector))\n}\n\n/**\n * Sorts elements in the list in-place descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> MutableList<T>.sortDescending(): Unit {\n    sortWith(reverseOrder())\n}\n\n/**\n * Returns a list of all elements sorted according to
 their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Iterable<T>.sorted(): List<T> {\n    if (this is Collection) {\n        if (size <= 1) return this.toList()\n        @Suppress(\"UNCHECKED_CAST\")\n        return
```

(toTypedArray<Comparable<T>>() as Array<T>).apply { sort() }.asList()\n }\n return toMutableList().apply { sort() }\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n * \n * @sample samples.collections.Collections.Sorting.sortedBy\n */\npublic inline fun <T, R : Comparable<R>> Iterable<T>.sortedBy(crossinline selector: (T) -> R?): List<T> {\n return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted
descending according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>> Iterable<T>.sortedByDescending(crossinline selector: (T) -> R?): List<T> {\n return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Iterable<T>.sortedDescending(): List<T> {\n return sortedWith(reverseOrder())\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T> Iterable<T>.sortedWith(comparator:
Comparator<in T>): List<T> {\n if (this is Collection) {\n if (size <= 1) return this.toList()\n @Suppress(\"UNCHECKED_CAST\")\n return (toTypedArray<Any?>() as Array<T>).apply { sortWith(comparator) }.asList()\n }\n return toMutableList().apply { sortWith(comparator) }\n}\n\n/**\n * Returns an array of Boolean containing all of the elements of this collection.\n */\npublic fun Collection<Boolean>.toBooleanArray(): BooleanArray {\n val result = BooleanArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n return result\n}\n\n/**\n * Returns an array of Byte containing all of the elements of this collection.\n */\npublic fun Collection<Byte>.toByteArray(): ByteArray {\n val result = ByteArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n return result\n}\n\n/**\n * Returns an array of Char containing all of the elements of this collection.\n */\npublic fun Collection<Char>.toCharArray():
CharArray {\n val result = CharArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n return result\n}\n\n/**\n * Returns an array of Double containing all of the elements of this collection.\n */\npublic fun Collection<Double>.toDoubleArray(): DoubleArray {\n val result = DoubleArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n return result\n}\n\n/**\n * Returns an array of Float containing all of the elements of this collection.\n */\npublic fun Collection<Float>.toFloatArray(): FloatArray {\n val result = FloatArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n return result\n}\n\n/**\n * Returns an array of Int containing all of the elements of this collection.\n */\npublic fun Collection<Int>.toIntArray(): IntArray {\n val result = IntArray(size)\n var index = 0\n for (element in this)\n result[index++]
= element\n return result\n}\n\n/**\n * Returns an array of Long containing all of the elements of this collection.\n */\npublic fun Collection<Long>.toLongArray(): LongArray {\n val result = LongArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n return result\n}\n\n/**\n * Returns an array of Short containing all of the elements of this collection.\n */\npublic fun Collection<Short>.toShortArray(): ShortArray {\n val result = ShortArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n return result\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given collection.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original collection.\n * \n * @sample samples.collections.Collections.Transformations.associate\n
*/\npublic inline fun <T, K, V> Iterable<T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {\n val capacity = mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing the elements from the given collection indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n *

\n * The returned map preserves the entry iteration order of the original collection.\n * \n * @sample samples.collections.Collections.Transformations.associateBy\n */\npublic inline fun <T, K> Iterable<T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n val capacity = mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, T>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given collection.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original collection.\n * \n * @sample samples.collections.Collections.Transformations.associateByWithValueTransform\n */\npublic inline fun <T, K, V> Iterable<T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {\n val capacity = mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given collection\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Collections.Transformations.associateByTo\n */\npublic inline fun <T, K, M : MutableMap<in K, in T>> Iterable<T>.associateByTo(destination: M, keySelector: (T) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given collection.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Collections.Transformations.associateByToWithValueTransform\n */\npublic inline fun <T, K, V, M : MutableMap<in K, in V>> Iterable<T>.associateByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given collection.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * @sample samples.collections.Collections.Transformations.associateTo\n */\npublic inline fun <T, K, V, M : MutableMap<in K, in V>> Iterable<T>.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Returns a [Map] where keys are elements from the given collection and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original collection.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n */\n@SinceKotlin(\"1.3\")\npublic inline fun <K, V> Iterable<K>.associateWith(valueSelector: (K) -> V): Map<K, V> {\n val result = LinkedHashMap<K, V>(mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16))\n return associateWithTo(result, valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given collection,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n */\n@SinceKotlin(\"1.3\")\npublic inline fun <K, V, M : MutableMap<in K, in V>> Iterable<K>.associateWithTo(destination: M, valueSelector: (K) -> V): M {\n for (element in this) {\n destination.put(element, valueSelector(element))\n }\n return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <T, C : MutableCollection<in T>> Iterable<T>.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\npublic fun <T> Iterable<T>.toHashSet(): HashSet<T> {\n return

toCollection(HashSet<T>(mapCapacity(collectionSizeOrDefault(12))))\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun <T> Iterable<T>.toList(): List<T> {\n    if (this is Collection) {\n        return when (size) {\n            0 -> emptyList()\n            1 -> listOf(if (this is List) get(0) else iterator().next())\n            else -> this.toMutableList()\n        }\n    }\n    return this.toMutableList().optimizeReadOnlyList()\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this collection.\n */\npublic fun <T> Iterable<T>.toMutableList(): MutableList<T> {\n    if (this is Collection<T>)\n        return this.toMutableList()\n    return toCollection(ArrayList<T>())\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this collection.\n */\npublic fun <T> Collection<T>.toMutableList(): MutableList<T> {\n    return ArrayList(this)\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original collection.\n */\npublic fun <T> Iterable<T>.toSet(): Set<T> {\n    if (this is Collection) {\n        return when (size) {\n            0 -> emptySet()\n            1 -> setOf(if (this is List) this[0] else iterator().next())\n            else -> toCollection(LinkedHashSet<T>(mapCapacity(size)))\n        }\n    }\n    return toCollection(LinkedHashSet<T>()).optimizeReadOnlySet()\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original collection.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <T, R> Iterable<T>.flatMap(transform: (T) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original collection.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapSequence\")\npublic inline fun <T, R> Iterable<T>.flatMap(transform: (T) -> Sequence<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original collection.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterable\")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Iterable<T>.flatMapIndexed(transform: (index: Int, T) -> Iterable<R>): List<R> {\n    return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original collection.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedSequence\")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Iterable<T>.flatMapIndexed(transform: (index: Int, T) -> Sequence<R>): List<R> {\n    return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original collection, to the given [destination].\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterableTo\")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.flatMapIndexedTo(destination: C, transform: (index: Int, T) -> Iterable<R>): C {\n    var index = 0\n    for (element in this) {\n        val list = transform(checkIndexOverflow(index++), element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original collection, to the given [destination].\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedSequenceTo\")\n@kotlin.internal.InlineOnly\npublic

inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.flatMapIndexedTo(destination: C, transform: (index: Int, T) -> Sequence<R>): C {\n    var index = 0\n    for (element in this) {\n        val list = transform(checkIndexOverflow(index++), element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original collection, to the given [destination].\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.flatMapTo(destination: C, transform: (T) -> Iterable<R>): C {\n    for (element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original collection, to the given [destination].\n *\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapSequenceTo\")\npublic inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.flatMapTo(destination: C, transform: (T) -> Sequence<R>): C {\n    for (element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Groups elements of the original collection by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original collection.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <T, K> Iterable<T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {\n    return groupByTo(LinkedHashMap<K, MutableList<T>>(), keySelector)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original collection\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original collection.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V> Iterable<T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>> {\n    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups elements of the original collection by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <T, K, M : MutableMap<in K, MutableList<T>>> Iterable<T>.groupByTo(destination: M, keySelector: (T) -> K): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list = destination.getOrPut(key) { ArrayList<T>() }\n        list.add(element)\n    }\n    return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original collection\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V, M : MutableMap<in K, MutableList<V>>> Iterable<T>.groupByTo(destination: M, keySelector: (T) -> K, valueTransform:
(T) -> V): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list = destination.getOrPut(key) { ArrayList<V>() }\n        list.add(valueTransform(element))\n    }\n    return destination\n}\n\n/**\n * Creates a [Grouping] source from a collection to be used later with one of group-and-fold operations\n * using the specified [keySelector] function to extract a key from each element.\n * \n * @sample samples.collections.Grouping.groupingByEachCount\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <T, K> Iterable<T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> {\n    return object : Grouping<T, K> {\n        override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()\n        override fun keyOf(element: T): K = keySelector(element)\n    }\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original collection.\n * \n * @sample samples.collections.Collections.Transformations.map\n

*/\npublic inline fun <T, R> Iterable<T>.map(transform: (T) -> R): List<R> {\n return mapTo(ArrayList<R>(collectionSizeOrDefault(10)), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original collection.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R> Iterable<T>.mapIndexed(transform: (index: Int, T) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(collectionSizeOrDefault(10)), transform)\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform] function\n * to each element and its index in the original collection.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R : Any> Iterable<T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): List<R> {\n return mapIndexedNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original collection\n * and appends only the non-null results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Iterable<T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {\n forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original collection\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(checkIndexOverflow(index++), item))\n return destination\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform] function\n * to each element in the original collection.\n * \n * @sample samples.collections.Collections.Transformations.mapNotNull\n */\npublic inline fun <T, R : Any> Iterable<T>.mapNotNull(transform: (T) -> R?): List<R> {\n return mapNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each element in the original collection\n * and appends only the non-null results to the given [destination].\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Iterable<T>.mapNotNullTo(destination: C, transform: (T) -> R?): C {\n forEach { element -> transform(element)?.let { destination.add(it) } }\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original collection\n * and appends the results to the given [destination].\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.mapTo(destination: C, transform: (T) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original collection\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun <T> Iterable<T>.withIndex(): Iterable<IndexedValue<T>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a list containing only distinct elements from the given collection.\n * \n * Among equal elements of the given collection, only the first one will be present\n in the resulting list.\n * The elements in the resulting list are in the same order as they were in the source collection.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun <T> Iterable<T>.distinct(): List<T> {\n return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only elements from the given collection\n * having distinct keys returned by the given [selector] function.\n * \n * Among elements of the given collection with equal keys, only the first one will be present in the resulting list.\n * The elements in the resulting list are in the same order as they were in the source collection.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <T, K> Iterable<T>.distinctBy(selector: (T) -> K): List<T> {\n val set = HashSet<K>()\n val list = ArrayList<T>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n * Returns a set containing all elements that are contained by both this collection and the specified collection.\n * \n * The returned set preserves the element iteration order of the

original collection.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun <T> Iterable<T>.intersect(other: Iterable<T>): Set<T> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this collection and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original collection.\n */\npublic infix fun <T> Iterable<T>.subtract(other: Iterable<T>): Set<T> {\n val set = this.toMutableSet()\n set.removeAll(other)\n return set\n}\n\n/**\n * Returns a new [MutableSet] containing all distinct elements from the given
collection.\n * \n * The returned set preserves the element iteration order of the original collection.\n */\npublic fun <T> Iterable<T>.toMutableSet(): MutableSet<T> {\n return when (this) {\n is Collection<T> -> LinkedHashSet(this)\n else -> toCollection(LinkedHashSet<T>())\n }\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original collection.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun <T> Iterable<T>.union(other: Iterable<T>): Set<T> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun <T> Iterable<T>.all(predicate: (T) -> Boolean): Boolean {\n if (this is Collection && isEmpty()) return true\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if collection has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun <T> Iterable<T>.any(): Boolean {\n if (this is Collection) return !isEmpty()\n return iterator().hasNext()\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun <T> Iterable<T>.any(predicate: (T) -> Boolean): Boolean {\n if (this is Collection && isEmpty()) return false\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns the number of elements in this collection.\n */\npublic fun <T> Iterable<T>.count(): Int {\n if (this is Collection)
return size\n var count = 0\n for (element in this) checkCountOverflow(++count)\n return count\n}\n\n/**\n * Returns the number of elements in this collection.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.count(): Int {\n return size\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun <T> Iterable<T>.count(predicate: (T) -> Boolean): Int {\n if (this is Collection && isEmpty()) return 0\n var count = 0\n for (element in this) if (predicate(element)) checkCountOverflow(++count)\n return count\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the specified [initial] value if the collection is empty.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n */\npublic inline fun <T, R> Iterable<T>.fold(initial:
R, operation: (acc: R, T) -> R): R {\n var accumulator = initial\n for (element in this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original collection.\n * \n * Returns the specified [initial] value if the collection is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <T, R> Iterable<T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(checkIndexOverflow(index++), accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation]
from right to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the list is empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <T, R> List<T>.foldRight(initial: R, operation: (T,

acc: R) -> R): R {\n var accumulator = initial\n if (!isEmpty()) {\n val iterator = listIterator(size)\n while (iterator.hasPrevious()) {\n accumulator = operation(iterator.previous(), accumulator)\n }\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original list and current accumulator value.\n * \n * Returns the specified [initial] value if the list is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator
value, and calculates the next accumulator value.\n */\npublic inline fun <T, R> List<T>.foldRightIndexed(initial: R, operation: (index: Int, T, acc: R) -> R): R {\n var accumulator = initial\n if (!isEmpty()) {\n val iterator = listIterator(size)\n while (iterator.hasPrevious()) {\n val index = iterator.previousIndex()\n accumulator = operation(index, iterator.previous(), accumulator)\n }\n }\n return accumulator\n}\n\n/**\n * Performs the given [action] on each element.\n */\n@kotlin.internal.HidesMembers\npublic inline fun <T> Iterable<T>.forEach(action: (T) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\npublic inline fun <T> Iterable<T>.forEachIndexed(action: (index: Int, T)
-> Unit): Unit {\n var index = 0\n for (item in this) action(checkIndexOverflow(index++), item)\n}\n\n@Deprecated(\"Use maxOrNull instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.1\")\npublic fun Iterable<Double>.max(): Double? {\n return maxOrNull()\n}\n\n@Deprecated(\"Use maxOrNull instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.1\")\npublic fun Iterable<Float>.max(): Float? {\n return maxOrNull()\n}\n\n@Deprecated(\"Use maxOrNull instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun <T : Comparable<T>> Iterable<T>.max(): T? {\n return maxOrNull()\n}\n\n@Deprecated(\"Use maxByOrNull instead.\", ReplaceWith(\"this.maxByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince
= \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <T, R : Comparable<R>> Iterable<T>.maxBy(selector: (T) -> R): T? {\n return maxByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <T, R : Comparable<R>> Iterable<T>.maxByOrNull(selector: (T) -> R): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var maxElem = iterator.next()\n if (!iterator.hasNext()) return maxElem\n var maxValue = selector(maxElem)\n do {\n val e = iterator.next()\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n } while (iterator.hasNext())\n return maxElem\n}\n\n/**\n * Returns the largest value among all values produced by [selector]
function\n * applied to each element in the collection.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the collection is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.maxOf(selector: (T) -> Double): Double {\n val iterator = iterator()\n if (!iterator.hasNext()) throw NoSuchElementException()\n var maxValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the collection.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException
if the collection is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.maxOf(selector: (T) ->

Float): Float {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw NoSuchElementException()\n    var maxValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the collection.\n * \n * @throws NoSuchElementException if the collection is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Iterable<T>.maxOf(selector: (T) -> R): R {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw NoSuchElementException()\n    var maxValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the collection or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.maxOfOrNull(selector: (T) -> Double): Double? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var maxValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the collection or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.maxOfOrNull(selector: (T) -> Float): Float? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var maxValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the collection or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Iterable<T>.maxOfOrNull(selector: (T) -> R): R? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var maxValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the collection.\n * \n * @throws NoSuchElementException if the collection is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Iterable<T>.maxOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw NoSuchElementException()\n    var maxValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        if (comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the collection or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Iterable<T>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var maxValue = selector(iterator.next())\n

```
    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        if (comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.4\")\npublic fun Iterable<Double>.maxOrNull(): Double? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var max = iterator.next()\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        max = maxOf(max, e)\n    }\n    return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.4\")\npublic fun Iterable<Float>.maxOrNull(): Float? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var max = iterator.next()\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        max = maxOf(max, e)\n    }\n    return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun <T : Comparable<T>> Iterable<T>.maxOrNull(): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var max = iterator.next()\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        if (max < e) max = e\n    }\n    return max\n}\n\n@Deprecated(\"Use maxWithOrNull instead.\",
ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun <T> Iterable<T>.maxWith(comparator: Comparator<in T>): T? {\n    return maxWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun <T> Iterable<T>.maxWithOrNull(comparator: Comparator<in T>): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var max = iterator.next()\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n@Deprecated(\"Use minOrNull instead.\",
ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.1\")\npublic fun Iterable<Double>.min(): Double? {\n    return minOrNull()\n}\n\n@Deprecated(\"Use minOrNull instead.\",
ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.1\")\npublic fun Iterable<Float>.min(): Float? {\n    return minOrNull()\n}\n\n@Deprecated(\"Use minOrNull instead.\",
ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun <T : Comparable<T>> Iterable<T>.min():
 T? {\n    return minOrNull()\n}\n\n@Deprecated(\"Use minByOrNull instead.\",
ReplaceWith(\"this.minByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <T, R : Comparable<R>> Iterable<T>.minBy(selector: (T) -> R): T? {\n    return minByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <T, R : Comparable<R>> Iterable<T>.minByOrNull(selector: (T) -> R): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var minElem = iterator.next()\n    if (!iterator.hasNext()) return minElem\n    var minValue = selector(minElem)\n    do {\n        val e = iterator.next()\n        val v = selector(e)\n        if (minValue > v) {\n            minElem = e\n            minValue = v\n        }\n    } while (iterator.hasNext())\n    return minElem\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the collection.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the collection is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minOf(selector: (T) -> Double): Double {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw NoSuchElementException()\n    var minValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n
```

minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in
the collection.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the collection is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minOf(selector: (T) -> Float): Float {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw NoSuchElementException()\n    var minValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the collection.\n * \n * @throws NoSuchElementException if the collection is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <T, R : Comparable<R>> Iterable<T>.minOf(selector: (T) -> R): R {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw NoSuchElementException()\n    var minValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the collection or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minOfOrNull(selector: (T) -> Double): Double? {\n    val iterator = iterator()\n
  if (!iterator.hasNext()) return null\n    var minValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the collection or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minOfOrNull(selector: (T) -> Float): Float? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var minValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n
 * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the collection or `null` if there are no elements.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Iterable<T>.minOfOrNull(selector: (T) -> R): R? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var minValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the collection.\n * \n * @throws NoSuchElementException if the collection is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <T, R> Iterable<T>.minOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw NoSuchElementException()\n    var minValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        if (comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n *

Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the collection or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Iterable<T>.minOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var minValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.4\")\npublic fun Iterable<Double>.minOrNull(): Double? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var min = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n min = minOf(min, e)\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.4\")\npublic fun Iterable<Float>.minOrNull(): Float? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var min = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n min = minOf(min, e)\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun <T : Comparable<T>> Iterable<T>.minOrNull(): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var min = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (min > e) min = e\n }\n return min\n}\n\n@Deprecated(\"Use minWithOrNull instead.\", ReplaceWith(\"this.minWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun <T> Iterable<T>.minWith(comparator: Comparator<in T>): T? {\n return minWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun <T> Iterable<T>.minWithOrNull(comparator: Comparator<in T>): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var min = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns `true` if the collection has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun <T> Iterable<T>.none(): Boolean {\n if (this is Collection) return isEmpty()\n return !iterator().hasNext()\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun <T> Iterable<T>.none(predicate: (T) -> Boolean): Boolean {\n if (this is Collection && isEmpty()) return true\n for (element in this) if (predicate(element)) return false\n return true\n}\n\n/**\n * Performs the given [action] on each element and returns the collection itself afterwards.\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <T, C : Iterable<T>> C.onEach(action: (T) -> Unit): C {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and returns the collection itself afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <T, C : Iterable<T>> C.onEachIndexed(action: (index: Int, T) -> Unit): C {\n return apply { forEachIndexed(action) }\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Throws an exception if this collection is empty. If the collection can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun <S, T : S> Iterable<T>.reduce(operation: (acc: S, T) -> S): S {\n val iterator = this.iterator()\n if (!iterator.hasNext()) throw UnsupportedOperationException(\"Empty collection can't be reduced.\")\n var accumulator: S = iterator.next()\n

```
while (iterator.hasNext()) {\n        accumulator = operation(accumulator, iterator.next())\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original collection.\n * \n * Throws an exception if this collection is empty. If the collection can be empty in an expected
 way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun <S, T : S> Iterable<T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {\n    val iterator = this.iterator()\n    if (!iterator.hasNext()) throw UnsupportedOperationException(\"Empty collection can't be reduced.\")\n    var index = 1\n    var accumulator: S = iterator.next()\n    while (iterator.hasNext()) {\n        accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original collection.\n
 * \n * Returns `null` if the collection is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <S, T : S> Iterable<T>.reduceIndexedOrNull(operation: (index: Int, acc: S, T) -> S): S? {\n    val iterator = this.iterator()\n    if (!iterator.hasNext()) return null\n    var index = 1\n    var accumulator: S = iterator.next()\n    while (iterator.hasNext()) {\n        accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the collection is empty.\n * \n * @param [operation] function that takes current
 accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S> Iterable<T>.reduceOrNull(operation: (acc: S, T) -> S): S? {\n    val iterator = this.iterator()\n    if (!iterator.hasNext()) return null\n    var accumulator: S = iterator.next()\n    while (iterator.hasNext()) {\n        accumulator = operation(accumulator, iterator.next())\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Throws an exception if this list is empty. If the list can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator
 value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun <S, T : S> List<T>.reduceRight(operation: (T, acc: S) -> S): S {\n    val iterator = listIterator(size)\n    if (!iterator.hasPrevious())\n        throw UnsupportedOperationException(\"Empty list can't be reduced.\")\n    var accumulator: S = iterator.previous()\n    while (iterator.hasPrevious()) {\n        accumulator = operation(iterator.previous(), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original list and current accumulator value.\n * \n * Throws an exception if this list is empty. If the list can be empty in an expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an
 element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun <S, T : S> List<T>.reduceRightIndexed(operation: (index: Int, T, acc: S) -> S): S {\n    val iterator = listIterator(size)\n    if (!iterator.hasPrevious())\n        throw UnsupportedOperationException(\"Empty list can't be reduced.\")\n    var accumulator: S = iterator.previous()\n    while (iterator.hasPrevious()) {\n        val index = iterator.previousIndex()\n        accumulator = operation(index, iterator.previous(), accumulator)\n    }\n    return accumulator\n}\n\n/**\n *
```

Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original list and current accumulator value.\n * \n * Returns `null` if the list is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself
and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <S, T : S> List<T>.reduceRightIndexedOrNull(operation: (index: Int, T, acc: S) -> S): S? {\n val iterator = listIterator(size)\n if (!iterator.hasPrevious())\n return null\n var accumulator: S = iterator.previous()\n while (iterator.hasPrevious()) {\n val index = iterator.previousIndex()\n accumulator = operation(index, iterator.previous(), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if the list is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S> List<T>.reduceRightOrNull(operation: (T, acc: S) -> S): S? {\n val iterator = listIterator(size)\n if (!iterator.hasPrevious())\n return null\n var accumulator: S = iterator.previous()\n while (iterator.hasPrevious()) {\n accumulator = operation(iterator.previous(), accumulator)\n }\n return accumulator\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <T, R> Iterable<T>.runningFold(initial: R, operation: (acc: R, T) -> R): List<R> {\n val estimatedSize = collectionSizeOrDefault(9)\n if (estimatedSize == 0) return listOf(initial)\n val result = ArrayList<R>(estimatedSize + 1).apply { add(initial) }\n var accumulator = initial\n for (element in this) {\n accumulator = operation(accumulator, element)\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original collection and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an
element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <T, R> Iterable<T>.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {\n val estimatedSize = collectionSizeOrDefault(9)\n if (estimatedSize == 0) return listOf(initial)\n val result = ArrayList<R>(estimatedSize + 1).apply { add(initial) }\n var index = 0\n var accumulator = initial\n for (element in this) {\n accumulator = operation(index++, accumulator, element)\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this collection.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and the element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S> Iterable<T>.runningReduce(operation: (acc: S, T) -> S): List<S> {\n val iterator = this.iterator()\n if (!iterator.hasNext()) return emptyList()\n var accumulator: S = iterator.next()\n val result = ArrayList<S>(collectionSizeOrDefault(10)).apply { add(accumulator) }\n while (iterator.hasNext()) {\n accumulator = operation(accumulator, iterator.next())\n result.add(accumulator)\n }\n return

result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the
original collection and current accumulator value that starts with the first element of this collection.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <S, T : S> Iterable<T>.runningReduceIndexed(operation: (index: Int, acc: S, T) -> S): List<S> {\n val iterator = this.iterator()\n if (!iterator.hasNext()) return emptyList()\n var accumulator: S = iterator.next()\n val result = ArrayList<S>(collectionSizeOrDefault(10)).apply { add(accumulator) }\n var index = 1\n while (iterator.hasNext()) {\n accumulator = operation(index++, accumulator, iterator.next())\n result.add(accumulator)\n
}\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <T, R> Iterable<T>.scan(initial: R, operation: (acc: R, T) -> R): List<R> {\n return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original collection
and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <T, R> Iterable<T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {\n return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the collection.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun <T> Iterable<T>.sumBy(selector: (T) -> Int):
Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the collection.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun <T> Iterable<T>.sumByDouble(selector: (T) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the collection.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfDouble\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.sumOf(selector: (T) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the collection.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfInt\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.sumOf(selector: (T) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function

applied to each element in the collection.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfLong\")\n@kotlin.internal.InlineOnly\npublic inline fun
<T> Iterable<T>.sumOf(selector: (T) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element
in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced
by [selector] function applied to each element in the collection.\n
*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.sumOf(selector: (T) -> UInt): UInt {\n
var sum: UInt = 0.toUInt()\n for (element in this) {\n sum += selector(element)\n }\n return
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the
collection.\n
*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <T> Iterable<T>.sumOf(selector: (T) -> ULong): ULong {\n var sum: ULong = 0.toULong()\n for
(element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns an original collection
containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are any `null` elements.\n
*/\npublic fun <T : Any> Iterable<T?>.requireNoNulls(): Iterable<T> {\n for (element in this) {\n if (element
== null) {\n throw IllegalArgumentException(\"null element found in $this.\")\n }\n }\n
@Suppress(\"UNCHECKED_CAST\")\n return this as Iterable<T>\n}\n\n/**\n * Returns an original collection
containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are any `null` elements.\n
*/\npublic fun <T : Any> List<T?>.requireNoNulls(): List<T> {\n for (element in this) {\n if (element ==
null) {\n throw IllegalArgumentException(\"null element found in $this.\")\n
}\n }\n @Suppress(\"UNCHECKED_CAST\")\n return this as List<T>\n}\n\n/**\n * Splits this
collection into a list of lists each not exceeding the given [size].\n * \n * The last list in the resulting list may have
fewer elements than the given [size].\n * \n * @param size the number of elements to take in each list, must be
positive and can be greater than the number of elements in this collection.\n * \n * @sample
samples.collections.Collections.Transformations.chunked\n */\n@SinceKotlin(\"1.2\")\npublic fun <T>
Iterable<T>.chunked(size: Int): List<List<T>> {\n return windowed(size, size, partialWindows = true)\n}\n\n/**\n
* Splits this collection into several lists each not exceeding the given [size]\n * and applies the given [transform]
function to an each.\n * \n * @return list of results of the [transform] applied to an each list.\n * \n * Note that the
list passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should
not store it or allow it to escape in some way, unless you made a snapshot of it.\n * The last list may have fewer
elements than the given [size].\n * \n * @param size the number of elements to take in each list, must be positive
and can be greater than the number of elements in this collection.\n * \n * @sample
samples.text.Strings.chunkedTransform\n */\n@SinceKotlin(\"1.2\")\npublic fun <T, R> Iterable<T>.chunked(size:
Int, transform: (List<T>) -> R): List<R> {\n return windowed(size, size, partialWindows = true, transform =
transform)\n}\n\n/**\n * Returns a list containing all elements of the original collection without the first occurrence
of the given [element].\n */\npublic operator fun <T> Iterable<T>.minus(element: T): List<T> {\n val result =
ArrayList<T>(collectionSizeOrDefault(10))\n var removed = false\n return this.filterTo(result) { if (!removed
&& it == element) { removed = true; false } else true }\n}\n\n/**\n * Returns a list containing all elements of
the original collection except the elements contained in the given [elements] array.\n * \n * Before Kotlin 1.6, the
[elements] array may have been converted to a [HashSet] to speed up the operation, thus the elements were required
to have\n * a correct and stable implementation of `hashCode()` that didn't change between successive
invocations.\n * On JVM, you can enable this behavior back with the system property
`kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.\n */\npublic operator fun <T>
Iterable<T>.minus(elements: Array<out T>): List<T> {\n if (elements.isEmpty()) return this.toList()\n val other

= elements.convertToSetForSetOperation()\n    return this.filterNot { it in other }\n}\n\n/**\n * Returns a list containing all elements of the original collection except the elements contained in the given [elements] collection.\n * \n * Before Kotlin 1.6, the [elements] collection may have been converted to a [HashSet] to speed up the operation, thus the elements
were required to have\n * a correct and stable implementation of `hashCode()` that didn't change between successive invocations.\n * On JVM, you can enable this behavior back with the system property `kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.\n */\npublic operator fun <T> Iterable<T>.minus(elements: Iterable<T>): List<T> {\n    val other = elements.convertToSetForSetOperationWith(this)\n    if (other.isEmpty())\n        return this.toList()\n    return this.filterNot { it in other }\n}\n\n/**\n * Returns a list containing all elements of the original collection except the elements contained in the given [elements] sequence.\n * \n * Before Kotlin 1.6, the [elements] sequence may have been converted to a [HashSet] to speed up the operation, thus the elements were required to have\n * a correct and stable implementation of `hashCode()` that didn't change between successive invocations.\n * On JVM, you can enable this behavior back with the system property `kotlin.collections.convert_arg_to_set_in_removeAll`
set to `true`.\n */\npublic operator fun <T> Iterable<T>.minus(elements: Sequence<T>): List<T> {\n    val other = elements.convertToSetForSetOperation()\n    if (other.isEmpty())\n        return this.toList()\n    return this.filterNot { it in other }\n}\n\n/**\n * Returns a list containing all elements of the original collection without the first occurrence of the given [element].\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minusElement(element: T): List<T> {\n    return minus(element)\n}\n\n/**\n * Splits the original collection into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n * @sample samples.collections.Iterables.Operations.partition\n */\npublic inline fun <T> Iterable<T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {\n    val first = ArrayList<T>()\n    val second = ArrayList<T>()\n    for (element in this) {\n        if (predicate(element)) {\n            first.add(element)\n        } else {\n            second.add(element)\n        }\n    }\n    return Pair(first, second)\n}\n\n/**\n * Returns a list containing all elements of the original collection and then the given [element].\n */\npublic operator fun <T> Iterable<T>.plus(element: T): List<T> {\n    if (this is Collection) return this.plus(element)\n    val result = ArrayList<T>()\n    result.addAll(this)\n    result.add(element)\n    return result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then the given [element].\n */\npublic operator fun <T> Collection<T>.plus(element: T): List<T> {\n    val result = ArrayList<T>(size + 1)\n    result.addAll(this)\n    result.add(element)\n    return result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then all elements of the given [elements] array.\n */\npublic operator
fun <T> Iterable<T>.plus(elements: Array<out T>): List<T> {\n    if (this is Collection) return this.plus(elements)\n    val result = ArrayList<T>()\n    result.addAll(this)\n    result.addAll(elements)\n    return result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then all elements of the given [elements] array.\n */\npublic operator fun <T> Collection<T>.plus(elements: Array<out T>): List<T> {\n    val result = ArrayList<T>(this.size + elements.size)\n    result.addAll(this)\n    result.addAll(elements)\n    return result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then all elements of the given [elements] collection.\n */\npublic operator fun <T> Iterable<T>.plus(elements: Iterable<T>): List<T> {\n    if (this is Collection) return this.plus(elements)\n    val result = ArrayList<T>()\n    result.addAll(this)\n    result.addAll(elements)\n    return result\n}\n\n/**\n * Returns a list containing all
elements of the original collection and then all elements of the given [elements] collection.\n */\npublic operator fun <T> Collection<T>.plus(elements: Iterable<T>): List<T> {\n    if (elements is Collection) {\n        val result = ArrayList<T>(this.size + elements.size)\n        result.addAll(this)\n        result.addAll(elements)\n        return result\n    } else {\n        val result = ArrayList<T>(this)\n        result.addAll(elements)\n        return result\n    }\n}\n\n/**\n * Returns a list containing all elements of the original collection and then all elements of the given [elements] sequence.\n */\npublic operator fun <T> Iterable<T>.plus(elements: Sequence<T>): List<T> {\n    val result = ArrayList<T>()\n    result.addAll(this)\n    result.addAll(elements)\n    return result\n}\n\n/**\n * Returns a list

containing all elements of the original collection and then all elements of the given [elements] sequence.\n */\npublic operator fun <T> Collection<T>.plus(elements: Sequence<T>): List<T> {\n val result = ArrayList<T>(this.size + 10)\n result.addAll(this)\n result.addAll(elements)\n return result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then the given [element].\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.plusElement(element: T): List<T> {\n return plus(element)\n}\n\n/**\n * Returns a list containing all elements of the original collection and then the given [element].\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.plusElement(element: T): List<T> {\n return plus(element)\n}\n\n/**\n * Returns a list of snapshots of the window of the given [size]\n * sliding along this collection with the given [step], where each\n * snapshot is a list.\n * \n * Several last lists may have fewer elements than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the number of elements in this collection.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.takeWindows\n */\n@SinceKotlin(\"1.2\")\npublic fun <T> Iterable<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): List<List<T>> {\n checkWindowSizeStep(size, step)\n if (this is RandomAccess && this is List) {\n val thisSize = this.size\n val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1\n val result = ArrayList<List<T>>(resultCapacity)\n var index = 0\n while (index in 0 until thisSize) {\n val windowSize = size.coerceAtMost(thisSize - index)\n if (windowSize < size && !partialWindows) break\n result.add(List(windowSize) { this[it + index] })\n index += step\n }\n return result\n }\n val result = ArrayList<List<T>>()\n windowedIterator(iterator(), size, step, partialWindows, reuseBuffer = false).forEach {\n result.add(it)\n }\n return result\n}\n\n/**\n * Returns a list of results of applying the given [transform] function to\n * an each list representing a view over the window of the given [size]\n * sliding along this collection with the given [step].\n * \n * Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * Several last lists may have fewer elements than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the number of elements in this collection.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.averageWindows\n */\n@SinceKotlin(\"1.2\")\npublic fun <T, R> Iterable<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (List<T>) -> R): List<R> {\n checkWindowSizeStep(size, step)\n if (this is RandomAccess && this is List) {\n val thisSize = this.size\n val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1\n val result = ArrayList<R>(resultCapacity)\n val window = MovingSubList(this)\n var index = 0\n while (index in 0 until thisSize) {\n val windowSize = size.coerceAtMost(thisSize - index)\n if (!partialWindows && windowSize < size) break\n window.move(index, index + windowSize)\n result.add(transform(window))\n index += step\n }\n return result\n }\n val result = ArrayList<R>()\n windowedIterator(iterator(), size, step, partialWindows, reuseBuffer = true).forEach {\n result.add(transform(it))\n }\n return result\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <T, R> Iterable<T>.zip(other: Array<out R>): List<Pair<T, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` collection and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the

shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <T, R, V> Iterable<T>.zip(other: Array<out R>, transform: (a: T, b: R) -> V): List<V> {\n val arraySize = other.size\n val list = ArrayList<V>(minOf(collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in this) {\n if (i >= arraySize) break\n list.add(transform(element, other[i++]))\n }\n return list\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] collection with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <T, R> Iterable<T>.zip(other: Iterable<R>): List<Pair<T, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` collection and the [other] collection with the same index\n * using the provided [transform] function applied to
each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <T, R, V> Iterable<T>.zip(other: Iterable<R>, transform: (a: T, b: R) -> V): List<V> {\n val first = iterator()\n val second = other.iterator()\n val list = ArrayList<V>(minOf(collectionSizeOrDefault(10), other.collectionSizeOrDefault(10)))\n while (first.hasNext() && second.hasNext()) {\n list.add(transform(first.next(), second.next()))\n }\n return list\n}\n\n/**\n * Returns a list of pairs of each two adjacent elements in this collection.\n * \n * The returned list is empty if this collection contains less than two elements.\n * \n * @sample samples.collections.Collections.Transformations.zipWithNext\n */\n@SinceKotlin(\"1.2\")\npublic fun <T> Iterable<T>.zipWithNext(): List<Pair<T, T>> {\n return zipWithNext { a, b -> a to b }\n}\n\n/**\n * Returns a list containing
the results of applying the given [transform] function\n * to an each pair of two adjacent elements in this collection.\n * \n * The returned list is empty if this collection contains less than two elements.\n * \n * @sample samples.collections.Collections.Transformations.zipWithNextToFindDeltas\n */\n@SinceKotlin(\"1.2\")\npublic inline fun <T, R> Iterable<T>.zipWithNext(transform: (a: T, b: T) -> R): List<R> {\n val iterator = iterator()\n if (!iterator.hasNext()) return emptyList()\n val result = mutableListOf<R>()\n var current = iterator.next()\n while (iterator.hasNext()) {\n val next = iterator.next()\n result.add(transform(current, next))\n current = next\n }\n return result\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <T, A : Appendable> Iterable<T>.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((T) -> CharSequence)? = null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1) buffer.append(separator)\n if (limit < 0 || count <= limit) {\n buffer.appendElement(element, transform)\n } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative
value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun <T> Iterable<T>.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((T) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Returns this collection as an [Iterable].\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.asIterable(): Iterable<T> {\n return this\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original collection returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromCollection\n */\npublic fun <T> Iterable<T>.asSequence(): Sequence<T>

{\n return Sequence { this.iterator() }\n}\n\n/**\n * Returns an average value of elements in the collection.\n */\n@kotlin.jvm.JvmName(\"averageOfByte\")\npublic fun Iterable<Byte>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the collection.\n */\n@kotlin.jvm.JvmName(\"averageOfShort\")\npublic fun Iterable<Short>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the collection.\n */\n@kotlin.jvm.JvmName(\"averageOfInt\")\npublic fun Iterable<Int>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the collection.\n */\n@kotlin.jvm.JvmName(\"averageOfLong\")\npublic fun Iterable<Long>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the collection.\n */\n@kotlin.jvm.JvmName(\"averageOfFloat\")\npublic fun Iterable<Float>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the collection.\n */\n@kotlin.jvm.JvmName(\"averageOfDouble\")\npublic fun Iterable<Double>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfByte\")\npublic fun Iterable<Byte>.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfShort\")\npublic fun Iterable<Short>.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfInt\")\npublic fun Iterable<Int>.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfLong\")\npublic fun Iterable<Long>.sum(): Long {\n var sum: Long = 0L\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfFloat\")\npublic fun Iterable<Float>.sum(): Float {\n var sum: Float = 0.0f\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfDouble\")\npublic fun Iterable<Double>.sum(): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\nimport kotlin.comparisons.naturalOrder\nimport kotlin.random.Random\n\n/**\n * Returns the array if it's not `null`, or an empty array otherwise.\n * @sample samples.collections.Arrays.Usage.arrayOrEmpty\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun <T> Array<out T>?.orEmpty(): Array<out T> = this ?: emptyArray<T>()\n\n/**\n * Returns a *typed* array containing all of the elements of this collection.\n *\n * Allocates an array of runtime type `T` having its size equal to the size of this collection\n * and populates the array with the elements of this collection.\n * @sample samples.collections.Collections.Collections.collectionToTypedArray\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun <T> Collection<T>.toTypedArray(): Array<T> = copyToArray(this)\n\n@JsName(\"copyToArray\")\n@PublishedApi\ninternal fun <T> copyToArray(collection:

```
Collection<T>): Array<T> {\n    return if (collection.asDynamic().toArray !== undefined)\n
collection.asDynamic().toArray().unsafeCast<Array<T>>()\n
    else\n
copyToArrayImpl(collection).unsafeCast<Array<T>>()\n}\n\n@JsName(\"copyToArrayImpl\")\ninternal actual fun
copyToArrayImpl(collection: Collection<*>): Array<Any?> {\n    val array = emptyArray<Any?>()\n    val iterator
= collection.iterator()\n    while (iterator.hasNext())\n        array.asDynamic().push(iterator.next())\n    return
array\n}\n\n@JsName(\"copyToExistingArrayImpl\")\ninternal actual fun <T> copyToArrayImpl(collection:
Collection<*>, array: Array<T>): Array<T> {\n    if (array.size < collection.size)\n        return
copyToArrayImpl(collection).unsafeCast<Array<T>>()\n\n    val iterator = collection.iterator()\n    var index = 0\n
while (iterator.hasNext()) {\n        array[index++] = iterator.next().unsafeCast<T>()\n    }\n    if (index < array.size)
{\n        array[index] = null.unsafeCast<T>()\n    }\n    return array\n}\n\n\n/**\n * Returns an immutable list
containing only the specified object [element].\n */\npublic fun <T> listOf(element:
 T): List<T> =
arrayListOf(element)\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\ninternal actual
inline fun <E> buildListInternal(builderAction: MutableList<E>.() -> Unit): List<E> {\n    return
ArrayList<E>().apply(builderAction).build()\n}\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\n@kotlin.internal.Inlin
eOnly\ninternal actual inline fun <E> buildListInternal(capacity: Int, builderAction: MutableList<E>.() -> Unit):
List<E> {\n    checkBuilderCapacity(capacity)\n    return
ArrayList<E>(capacity).apply(builderAction).build()\n}\n\n\n/**\n * Returns an immutable set containing only the
specified object [element].\n */\npublic fun <T> setOf(element: T): Set<T> =
hashSetOf(element)\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\ninternal actual inline
fun <E> buildSetInternal(builderAction: MutableSet<E>.() -> Unit): Set<E> {\n    return
LinkedHashSet<E>().apply(builderAction).build()\n}\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\n@kotlin.internal.
InlineOnly\ninternal
 actual inline fun <E> buildSetInternal(capacity: Int, builderAction: MutableSet<E>.() -> Unit): Set<E> {\n    return
LinkedHashSet<E>(capacity).apply(builderAction).build()\n}\n\n\n/**\n * Returns an immutable map, mapping
only the specified key to the\n * specified value.\n */\npublic fun <K, V> mapOf(pair: Pair<K, V>): Map<K, V> =
hashMapOf(pair)\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\ninternal actual inline
fun <K, V> buildMapInternal(builderAction: MutableMap<K, V>.() -> Unit): Map<K, V> {\n    return
LinkedHashMap<K,
V>().apply(builderAction).build()\n}\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\ninte
rnal actual inline fun <K, V> buildMapInternal(capacity: Int, builderAction: MutableMap<K, V>.() -> Unit):
Map<K, V> {\n    return LinkedHashMap<K, V>(capacity).apply(builderAction).build()\n}\n\n\n/**\n * Fills the
list with the provided [value].\n *\n * Each element in the list gets replaced
 with the [value].\n */\n@SinceKotlin(\"1.2\")\npublic actual fun <T> MutableList<T>.fill(value: T): Unit {\n    for
(index in 0..lastIndex) {\n        this[index] = value\n    }\n}\n\n/**\n * Randomly shuffles elements in this list.\n *\n
* See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n
*/\n@SinceKotlin(\"1.2\")\npublic actual fun <T> MutableList<T>.shuffle(): Unit = shuffle(Random)\n\n/**\n *
Returns a new list with the elements of this list randomly shuffled.\n */\n@SinceKotlin(\"1.2\")\npublic actual fun
<T> Iterable<T>.shuffled(): List<T> = toMutableList().apply { shuffle() }\n\n/**\n * Sorts elements in the list in-
place according to their natural sort order.\n *\n * The sort is _stable_. It means that equal elements preserve their
order relative to each other after sorting.\n *\n * @sample samples.collections.Collections.Sorting.sortMutableList\n
*/\npublic actual fun <T : Comparable<T>> MutableList<T>.sort(): Unit {\n    collectionsSort(this,
 naturalOrder())\n}\n\n/**\n * Sorts elements in the list in-place according to the order specified with
[comparator].\n *\n * The sort is _stable_. It means that equal elements preserve their order relative to each other
after sorting.\n *\n * @sample samples.collections.Collections.Sorting.sortMutableListWith\n */\npublic actual fun
<T> MutableList<T>.sortWith(comparator: Comparator<in T>): Unit {\n    collectionsSort(this,
comparator)\n}\n\nprivate fun <T> collectionsSort(list: MutableList<T>, comparator: Comparator<in T>) {\n    if
```

(list.size <= 1) return\n\n    val array = copyToArray(list)\n    sortArrayWith(array, comparator)\n\n    for (i in 0 until array.size) {\n        list[i] = array[i]\n    }\n}\n\ninternal actual fun <T> arrayOfNulls(reference: Array<T>, size: Int): Array<T> {\n    return arrayOfNulls<Any>(size).unsafeCast<Array<T>>()\n}\n\n@SinceKotlin(\"1.3\")\n@PublishedApi\n@JsName(\"arrayCopy\")\ninternal fun <T> arrayCopy(source: Array<out T>, destination: Array<in T>, destinationOffset: Int, startIndex: Int, endIndex: Int) {\n    AbstractList.checkRangeIndexes(startIndex, endIndex, source.size)\n    val rangeSize = endIndex - startIndex\n    AbstractList.checkRangeIndexes(destinationOffset, destinationOffset + rangeSize, destination.size)\n\n    if (js(\"ArrayBuffer\").isView(destination) && js(\"ArrayBuffer\").isView(source)) {\n        val subrange = source.asDynamic().subarray(startIndex, endIndex)\n        destination.asDynamic().set(subrange, destinationOffset)\n    } else {\n        if (source !== destination || destinationOffset <= startIndex) {\n            for (index in 0 until rangeSize) {\n                destination[destinationOffset + index] = source[startIndex + index]\n            }\n        } else {\n            for (index in rangeSize - 1 downTo 0) {\n                destination[destinationOffset + index] = source[startIndex + index]\n            }\n        }\n    }\n}\n\n// no singleton map implementation in js, return map as is\n@Suppress(\"NOTHING_TO_INLINE\")\ninternal actual inline fun <K, V> Map<K, V>.toSingletonMapOrSelf(): Map<K, V> = this\n\n@Suppress(\"NOTHING_TO_INLINE\")\ninternal actual inline fun <K, V> Map<out K, V>.toSingletonMap(): Map<K, V> = this.toMutableMap()\n\n\n@Suppress(\"NOTHING_TO_INLINE\")\ninternal actual inline fun <T> Array<out T>.copyToArrayOfAny(isVarargs: Boolean): Array<out Any?> =\n    if (isVarargs)\n        // no need to copy vararg array in JS\n        this\n    else\n        this.copyOf()\n\n\n\n@PublishedApi\ninternal actual fun checkIndexOverflow(index: Int): Int {\n    if (index < 0) {\n        throwIndexOverflow()\n    }\n    return index\n}\n\n@PublishedApi\ninternal actual fun checkCountOverflow(count: Int): Int {\n    if (count < 0) {\n        throwCountOverflow()\n    }\n    return count\n}\n\n\n/**\n * JS map and set implementations do not make use of capacities or load factors.\n */\n@PublishedApi\ninternal actual fun mapCapacity(expectedSize: Int) = expectedSize\n\n/**\n * Checks a collection builder function capacity argument.\n * In JS no validation is made in Map/Set constructor yet.\n */\n@SinceKotlin(\"1.3\")\n@PublishedApi\ninternal fun checkBuilderCapacity(capacity: Int) {\n    require(capacity >= 0) { \"capacity must be non-negative.\" }\n}\n\ninternal actual fun brittleContainsOptimizationEnabled(): Boolean = false","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"CollectionsKt\")\n\npackage kotlin.collections\n\n\n/**\n * Returns the given iterator itself. This allows to use an instance of iterator in a `for` loop.\n * @sample samples.collections.Iterators.iterator\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Iterator<T>.iterator(): Iterator<T> = this\n\n/**\n * Returns an [Iterator] that wraps each element produced by the original iterator\n * into an [IndexedValue] containing the index of that element and the element itself.\n *\n * @sample samples.collections.Iterators.withIndexIterator\n */\npublic fun <T> Iterator<T>.withIndex(): Iterator<IndexedValue<T>> = IndexingIterator(this)\n\n/**\n * Performs the given [operation] on each element of this [Iterator].\n * @sample samples.collections.Iterators.forEachIterator\n */\npublic inline fun <T> Iterator<T>.forEach(operation: (T) -> Unit): Unit {\n    for (element in this) operation(element)\n}\n\n/**\n * Iterator transforming original `iterator` into iterator of [IndexedValue], counting index from zero.\n */\ninternal class IndexingIterator<out T>(private val iterator: Iterator<T>) : Iterator<IndexedValue<T>> {\n    private var index = 0\n    final override fun hasNext(): Boolean = iterator.hasNext()\n    final override fun next(): IndexedValue<T> = IndexedValue(checkIndexOverflow(index++), iterator.next())\n}\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"ComparisonsKt\")\n\npackage

kotlin.comparisons\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\n\n/**\n * Returns the greater of two values.\n * \n * If values are equal, returns the first one.\n */\n@SinceKotlin(\"1.1\")\npublic expect fun <T : Comparable<T>> maxOf(a: T, b: T): T\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Byte, b: Byte): Byte\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Short, b: Short):
Short\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Int, b: Int): Int\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Long, b: Long): Long\n\n/**\n * Returns the greater of two values.\n * \n * If either value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Float, b: Float): Float\n\n/**\n * Returns the greater of two values.\n * \n * If either value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Double, b: Double): Double\n\n/**\n * Returns the greater of three values.\n * \n * If there are multiple equal maximal values, returns the first of them.\n */\n@SinceKotlin(\"1.1\")\npublic expect fun <T : Comparable<T>> maxOf(a: T, b: T, c: T): T\n\n/**\n * Returns the greater
of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Byte, b: Byte, c: Byte): Byte\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Short, b: Short, c: Short): Short\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Int, b: Int, c: Int): Int\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Long, b: Long, c: Long): Long\n\n/**\n * Returns the greater of three values.\n * \n * If any value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Float, b: Float, c: Float): Float\n\n/**\n * Returns the greater of three values.\n * \n * If any value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic
expect inline fun maxOf(a: Double, b: Double, c: Double): Double\n\n/**\n * Returns the greater of three values according to the order specified by the given [comparator].\n * \n * If there are multiple equal maximal values, returns the first of them.\n */\n@SinceKotlin(\"1.1\")\npublic fun <T> maxOf(a: T, b: T, c: T, comparator: Comparator<in T>): T {\n    return maxOf(a, maxOf(b, c, comparator), comparator)\n}\n\n/**\n * Returns the greater of two values according to the order specified by the given [comparator].\n * \n * If values are equal, returns the first one.\n */\n@SinceKotlin(\"1.1\")\npublic fun <T> maxOf(a: T, b: T, comparator: Comparator<in T>): T {\n  return if (comparator.compare(a, b) >= 0) a else b\n}\n\n/**\n * Returns the greater of the given values.\n * \n * If there are multiple equal maximal values, returns the first of them.\n */\n@SinceKotlin(\"1.4\")\npublic expect fun <T : Comparable<T>> maxOf(a: T, vararg other: T): T\n\n/**\n
* Returns the greater of the given values.\n */\n@SinceKotlin(\"1.4\")\npublic expect fun maxOf(a: Byte, vararg other: Byte): Byte\n\n/**\n * Returns the greater of the given values.\n */\n@SinceKotlin(\"1.4\")\npublic expect fun maxOf(a: Short, vararg other: Short): Short\n\n/**\n * Returns the greater of the given values.\n */\n@SinceKotlin(\"1.4\")\npublic expect fun maxOf(a: Int, vararg other: Int): Int\n\n/**\n * Returns the greater of the given values.\n */\n@SinceKotlin(\"1.4\")\npublic expect fun maxOf(a: Long, vararg other: Long): Long\n\n/**\n * Returns the greater of the given values.\n * \n * If any value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.4\")\npublic expect fun maxOf(a: Float, vararg other: Float): Float\n\n/**\n * Returns the greater of the given values.\n * \n * If any value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.4\")\npublic expect fun maxOf(a: Double, vararg other: Double): Double\n\n/**\n * Returns the greater of the given values according
to the order specified by the given [comparator].\n * \n * If there are multiple equal maximal values, returns the first of them.\n */\n@SinceKotlin(\"1.4\")\npublic fun <T> maxOf(a: T, vararg other: T, comparator: Comparator<in

T>): T {\n    var max = a\n    for (e in other) if (comparator.compare(max, e) < 0) max = e\n    return max\n}\n\n/**\n * Returns the smaller of two values.\n * \n * If values are equal, returns the first one.\n */\n@SinceKotlin(\"1.1\")\npublic expect fun <T : Comparable<T>> minOf(a: T, b: T): T\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Byte, b: Byte): Byte\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Short, b: Short): Short\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Int, b: Int): Int\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Long, b: Long): Long\n\n/**\n * Returns the smaller of two values.\n * \n * If either value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Float, b: Float): Float\n\n/**\n * Returns the smaller of two values.\n * \n * If either value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Double, b: Double): Double\n\n/**\n * Returns the smaller of three values.\n * \n * If there are multiple equal minimal values, returns the first of them.\n */\n@SinceKotlin(\"1.1\")\npublic expect fun <T : Comparable<T>> minOf(a: T, b: T, c: T): T\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Byte, b: Byte, c: Byte): Byte\n\n/**\n * Returns
the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Short, b: Short, c: Short): Short\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Int, b: Int, c: Int): Int\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Long, b: Long, c: Long): Long\n\n/**\n * Returns the smaller of three values.\n * \n * If any value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Float, b: Float, c: Float): Float\n\n/**\n * Returns the smaller of three values.\n * \n * If any value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Double, b: Double, c: Double): Double\n\n/**\n * Returns the smaller of three values according to
the order specified by the given [comparator].\n * \n * If there are multiple equal minimal values, returns the first of them.\n */\n@SinceKotlin(\"1.1\")\npublic fun <T> minOf(a: T, b: T, c: T, comparator: Comparator<in T>): T {\n    return minOf(a, minOf(b, c, comparator), comparator)\n}\n\n/**\n * Returns the smaller of two values according to the order specified by the given [comparator].\n * \n * If values are equal, returns the first one.\n */\n@SinceKotlin(\"1.1\")\npublic fun <T> minOf(a: T, b: T, comparator: Comparator<in T>): T {\n    return if (comparator.compare(a, b) <= 0) a else b\n}\n\n/**\n * Returns the smaller of the given values.\n * \n * If there are multiple equal minimal values, returns the first of them.\n */\n@SinceKotlin(\"1.4\")\npublic expect fun <T : Comparable<T>> minOf(a: T, vararg other: T): T\n\n/**\n * Returns the smaller of the given values.\n */\n@SinceKotlin(\"1.4\")\npublic expect fun minOf(a: Byte, vararg other: Byte): Byte\n\n/**\n * Returns the smaller
of the given values.\n */\n@SinceKotlin(\"1.4\")\npublic expect fun minOf(a: Short, vararg other: Short): Short\n\n/**\n * Returns the smaller of the given values.\n */\n@SinceKotlin(\"1.4\")\npublic expect fun minOf(a: Int, vararg other: Int): Int\n\n/**\n * Returns the smaller of the given values.\n */\n@SinceKotlin(\"1.4\")\npublic expect fun minOf(a: Long, vararg other: Long): Long\n\n/**\n * Returns the smaller of the given values.\n * \n * If any value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.4\")\npublic expect fun minOf(a: Float, vararg other: Float): Float\n\n/**\n * Returns the smaller of the given values.\n * \n * If any value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.4\")\npublic expect fun minOf(a: Double, vararg other: Double): Double\n\n/**\n * Returns the smaller of the given values according to the order specified by the given [comparator].\n * \n * If there are multiple equal minimal values, returns the first of them.\n */\n@SinceKotlin(\"1.4\")\npublic
fun <T> minOf(a: T, vararg other: T, comparator: Comparator<in T>): T {\n    var min = a\n    for (e in other) if (comparator.compare(min, e) > 0) min = e\n    return min\n}\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and

Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"MapsKt\")\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns the first non-null value produced by [transform] function being applied to entries of this map in iteration order,\n * or throws [NoSuchElementException] if no non-null value was produced.\n * \n * @sample samples.collections.Collections.Transformations.firstNotNullOf\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Any> Map<out K, V>.firstNotNullOf(transform: (Map.Entry<K, V>) -> R?): R {\n    return firstNotNullOfOrNull(transform) ?: throw NoSuchElementException(\"No element of the map was transformed to a non-null value.\")\n}\n\n/**\n * Returns the first non-null value produced by [transform] function being applied to entries of this map in iteration order,\n * or `null` if no non-null value was produced.\n * \n * @sample samples.collections.Collections.Transformations.firstNotNullOf\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Any> Map<out K, V>.firstNotNullOfOrNull(transform: (Map.Entry<K, V>) -> R?): R? {\n    for (element in this) {\n        val result = transform(element)\n        if (result != null) {\n            return result\n        }\n    }\n    return null\n}\n\n/**\n * Returns a [List] containing all key-value pairs.\n */\npublic fun <K, V> Map<out K, V>.toList(): List<Pair<K, V>> {\n    if (size == 0)\n        return emptyList()\n    val iterator = entries.iterator()\n    if (!iterator.hasNext())\n        return emptyList()\n    val first = iterator.next()\n    if (!iterator.hasNext())\n        return listOf(first.toPair())\n    val result = ArrayList<Pair<K, V>>(size)\n    result.add(first.toPair())\n    do {\n        result.add(iterator.next().toPair())\n    } while (iterator.hasNext())\n    return result\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each entry of original map.\n * \n * @sample samples.collections.Maps.Transformations.flatMap\n */\npublic inline fun <K, V, R> Map<out K, V>.flatMap(transform: (Map.Entry<K, V>) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each entry of original map.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapSequence\")\npublic inline fun <K, V, R> Map<out K, V>.flatMap(transform: (Map.Entry<K, V>) -> Sequence<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each entry of original map, to the given [destination].\n */\npublic inline fun <K, V, R, C : MutableCollection<in R>> Map<out K, V>.flatMapTo(destination: C, transform: (Map.Entry<K, V>) -> Iterable<R>): C {\n    for (element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each entry of original map, to the given [destination].\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapSequenceTo\")\npublic inline fun <K, V, R, C : MutableCollection<in R>> Map<out K, V>.flatMapTo(destination: C, transform: (Map.Entry<K, V>) -> Sequence<R>): C {\n    for (element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each entry in the original map.\n * \n * @sample samples.collections.Maps.Transformations.mapToList\n */\npublic inline fun <K, V, R> Map<out K, V>.map(transform: (Map.Entry<K, V>) -> R): List<R> {\n    return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform] function\n * to each entry in the original map.\n * \n * @sample

samples.collections.Maps.Transformations.mapNotNull\n
*/\npublic inline fun <K, V, R : Any> Map<out K, V>.mapNotNull(transform: (Map.Entry<K, V>) -> R?): List<R> {\n    return mapNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each entry in the original map\n * and appends only the non-null results to the given [destination].\n */\npublic inline fun <K, V, R : Any, C : MutableCollection<in R>> Map<out K, V>.mapNotNullTo(destination: C, transform: (Map.Entry<K, V>) -> R?): C {\n    forEach { element -> transform(element)?.let { destination.add(it) } }\n    return destination\n}\n\n/**\n * Applies the given [transform] function to each entry of the original map\n * and appends the results to the given [destination].\n */\npublic inline fun <K, V, R, C : MutableCollection<in R>> Map<out K, V>.mapTo(destination: C, transform: (Map.Entry<K, V>) -> R): C {\n    for (item in this)\n        destination.add(transform(item))\n    return destination\n}\n\n/**\n * Returns `true` if all entries match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun <K, V> Map<out K, V>.all(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {\n    if (isEmpty()) return true\n    for (element in this) if (!predicate(element)) return false\n    return true\n}\n\n/**\n * Returns `true` if map has at least one entry.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun <K, V> Map<out K, V>.any(): Boolean {\n    return !isEmpty()\n}\n\n/**\n * Returns `true` if at least one entry matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun <K, V> Map<out K, V>.any(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {\n    if (isEmpty()) return false\n    for (element in this) if (predicate(element)) return true\n    return false\n}\n\n/**\n * Returns the number of entries in this map.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.count(): Int {\n    return size\n}\n\n/**\n * Returns the number of entries matching the given [predicate].\n */\npublic inline fun <K, V> Map<out K, V>.count(predicate: (Map.Entry<K, V>) -> Boolean): Int {\n    if (isEmpty()) return 0\n    var count = 0\n    for (element in this) if (predicate(element)) ++count\n    return count\n}\n\n/**\n * Performs the given [action] on each entry.\n */\n@kotlin.internal.HidesMembers\npublic inline fun <K, V> Map<out K, V>.forEach(action: (Map.Entry<K, V>) -> Unit): Unit {\n    for (element in this) action(element)\n}\n\n@Deprecated(\"Use maxByOrNull instead.\", ReplaceWith(\"this.maxByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K, V>.maxBy(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V>? {\n    return maxByOrNull(selector)\n}\n\n/**\n * Returns the first entry yielding the largest value of the given function or `null` if there are no entries.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K, V>.maxByOrNull(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V>? {\n    return entries.maxByOrNull(selector)\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each entry in the map.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the map is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.maxOf(selector: (Map.Entry<K, V>) -> Double): Double {\n    return entries.maxOf(selector)\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each entry in the map.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the map is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.maxOf(selector: (Map.Entry<K, V>) -> Float): Float {\n    return entries.maxOf(selector)\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each entry in the map.\n * \n * @throws NoSuchElementException if the map is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K, V>.maxOf(selector: (Map.Entry<K, V>) -> R): R {\n    return entries.maxOf(selector)\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each entry in the map or `null` if there are no entries.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.maxOfOrNull(selector: (Map.Entry<K, V>) -> Double): Double? {\n    return entries.maxOfOrNull(selector)\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each entry in the map or `null` if there are no entries.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.maxOfOrNull(selector: (Map.Entry<K, V>) -> Float): Float? {\n    return entries.maxOfOrNull(selector)\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each entry in the map or `null` if there are no entries.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K, V>.maxOfOrNull(selector: (Map.Entry<K, V>) -> R): R? {\n    return entries.maxOfOrNull(selector)\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each entry in the map.\n * \n * @throws NoSuchElementException if the map is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R> Map<out K, V>.maxOfWith(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R {\n    return entries.maxOfWith(comparator, selector)\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each entry in the map or `null` if there are no entries.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R> Map<out K, V>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R? {\n    return entries.maxOfWithOrNull(comparator, selector)\n}\n\n@Deprecated(\"Use maxWithOrNull instead.\", ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.maxWith(comparator: Comparator<in Map.Entry<K, V>>): Map.Entry<K, V>? {\n    return maxWithOrNull(comparator)\n}\n\n/**\n * Returns the first entry having the largest value according to the provided [comparator] or `null` if there are no entries.\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.maxWithOrNull(comparator: Comparator<in Map.Entry<K, V>>): Map.Entry<K, V>? {\n    return entries.maxWithOrNull(comparator)\n}\n\n@Deprecated(\"Use minByOrNull instead.\", ReplaceWith(\"this.minByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <K, V, R : Comparable<R>> Map<out K, V>.minBy(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V>? {\n    return minByOrNull(selector)\n}\n\n/**\n * Returns the first entry yielding the smallest value of the given function or `null` if there are no entries.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K, V>.minByOrNull(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V>? {\n    return entries.minByOrNull(selector)\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each entry in the map.\n * \n * If any of values produced by

[selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the map is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.minOf(selector: (Map.Entry<K, V>) -> Double): Double {\n    return entries.minOf(selector)\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each entry in the map.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the map is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.minOf(selector: (Map.Entry<K, V>) -> Float): Float {\n    return entries.minOf(selector)\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each entry in the map.\n * \n * @throws NoSuchElementException if the map is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K, V>.minOf(selector: (Map.Entry<K, V>) -> R): R {\n    return entries.minOf(selector)\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each entry in the map or `null` if there are no entries.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.minOfOrNull(selector: (Map.Entry<K, V>) -> Double): Double? {\n    return entries.minOfOrNull(selector)\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each entry in the map or `null` if there are no entries.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.minOfOrNull(selector: (Map.Entry<K, V>) -> Float): Float? {\n    return entries.minOfOrNull(selector)\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each entry in the map or `null` if there are no entries.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K, V>.minOfOrNull(selector: (Map.Entry<K, V>) -> R): R? {\n    return entries.minOfOrNull(selector)\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each entry in the map.\n * \n * @throws NoSuchElementException if the map is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R> Map<out K, V>.minOfWith(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R {\n    return entries.minOfWith(comparator, selector)\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each entry in the map or `null` if there are no entries.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R> Map<out K, V>.minOfWithOrNull(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R? {\n    return entries.minOfWithOrNull(comparator, selector)\n}\n\n@Deprecated(\"Use minWithOrNull instead.\", ReplaceWith(\"this.minWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun <K, V> Map<out K, V>.minWith(comparator: Comparator<in Map.Entry<K, V>>): Map.Entry<K, V>? {\n    return minWithOrNull(comparator)\n}\n\n/**\n * Returns the first

entry having the smallest value according to the provided [comparator] or `null` if there are no entries.\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic
 inline fun <K, V> Map<out K, V>.minWithOrNull(comparator: Comparator<in Map.Entry<K, V>>): Map.Entry<K, V>? {\n    return entries.minWithOrNull(comparator)\n}\n\n/**\n * Returns `true` if the map has no entries.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun <K, V> Map<out K, V>.none(): Boolean {\n    return isEmpty()\n}\n\n/**\n * Returns `true` if no entries match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun <K, V> Map<out K, V>.none(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {\n    if (isEmpty()) return true\n    for (element in this) if (predicate(element)) return false\n    return true\n}\n\n/**\n * Performs the given [action] on each entry and returns the map itself afterwards.\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <K, V, M : Map<out K, V>> M.onEach(action: (Map.Entry<K, V>) -> Unit): M {\n
    return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each entry, providing sequential index with the entry,\n * and returns the map itself afterwards.\n * @param [action] function that takes the index of an entry and the entry itself\n * and performs the action on the entry.\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <K, V, M : Map<out K, V>> M.onEachIndexed(action: (index: Int, Map.Entry<K, V>) -> Unit): M {\n    return apply { entries.forEachIndexed(action) }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original map returning its entries when being iterated.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.asIterable(): Iterable<Map.Entry<K, V>> {\n    return entries\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original map returning its entries when being iterated.\n */\npublic fun <K, V> Map<out K, V>.asSequence(): Sequence<Map.Entry<K, V>> {\n return entries.asSequence()\n}\n\n","/*\n
 * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateUnicodeData.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\n// 10 mappings totally\ninternal fun Char.titlecaseImpl(): String {\n    val uppercase = uppercase()\n    if (uppercase.length > 1) {\n        return if (this == '\\u0149') uppercase else uppercase[0] + uppercase.substring(1).lowercase()\n    }\n    return titlecaseChar().toString()\n}\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/**\n * Converts this character to lower case using Unicode mapping rules
 of the invariant locale.\n */\n@Deprecated(\"Use lowercaseChar() instead.\", ReplaceWith(\"lowercaseChar()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\n@kotlin.internal.InlineOnly\npublic actual inline fun Char.toLowerCase(): Char = lowercaseChar()\n\n/**\n * Converts this character to lower case using Unicode mapping rules of the invariant locale.\n *\n * This function performs one-to-one character mapping.\n * To support one-to-many character mapping use the [lowercase] function.\n * If this character has no mapping equivalent, the character itself is returned.\n *\n * @sample samples.text.Chars.lowercase\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic actual inline fun Char.lowercaseChar(): Char = lowercase()[0]\n\n/**\n * Converts this character to lower case using Unicode mapping rules of the invariant locale.\n *\n * This function supports one-to-many character mapping, thus the length of the returned string
 can be greater than one.\n * For example, `\"\\u0130'.lowercase()` returns `\"\\u0069\\u0307\"`,\n * where `\"\\u0130'` is the LATIN CAPITAL LETTER I WITH DOT ABOVE character (`\u0130`).\n * If this character has no lower case mapping, the result of `toString()` of this char is returned.\n *\n * @sample samples.text.Chars.lowercase\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic actual inline fun Char.lowercase(): String = toString().asDynamic().toLowerCase().unsafeCast<String>()\n\n/**\n * Converts this character to upper case using Unicode mapping rules of the invariant locale.\n

*/\n@Deprecated(\"Use uppercaseChar() instead.\",
ReplaceWith(\"uppercaseChar()\"))\n@DeprecatedSinceKotlin(warningSince =
\"1.5\")\n@kotlin.internal.InlineOnly\npublic actual inline fun Char.toUpperCase(): Char =
uppercaseChar()\n\n/**\n * Converts this character to upper case using Unicode mapping rules of the invariant
locale.\n *\n * This
function performs one-to-one character mapping.\n * To support one-to-many character mapping use the
[uppercase] function.\n * If this character has no mapping equivalent, the character itself is returned.\n *\n *
@sample samples.text.Chars.uppercase\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Char.uppercaseChar(): Char {\n val uppercase = uppercase()\n return if (uppercase.length > 1) this else
uppercase[0]\n}\n\n/**\n * Converts this character to upper case using Unicode mapping rules of the invariant
locale.\n *\n * This function supports one-to-many character mapping, thus the length of the returned string can be
greater than one.\n * For example, `\\uFB00'.uppercase()` returns `\"\\u0046\\u0046\"`,\n * where `\\uFB00'` is the
LATIN SMALL LIGATURE FF character (`\ufb00`).\n * If this character has no upper case mapping, the result of
`toString()` of this char is returned.\n *\n * @sample samples.text.Chars.uppercase\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c
actual inline fun Char.uppercase(): String = toString().asDynamic().toUpperCase().unsafeCast<String>()\n\n/**\n *
Converts this character to title case using Unicode mapping rules of the invariant locale.\n *\n * This function
performs one-to-one character mapping.\n * To support one-to-many character mapping use the [titlecase]
function.\n * If this character has no mapping equivalent, the result of calling [uppercaseChar] is returned.\n *\n *
@sample samples.text.Chars.titlecase\n */\n@SinceKotlin(\"1.5\")\npublic actual fun Char.titlecaseChar(): Char =
titlecaseCharImpl()\n\n/**\n * Returns `true` if this character is a Unicode high-surrogate code unit (also known as
leading-surrogate code unit).\n */\npublic actual fun Char.isHighSurrogate(): Boolean = this in
Char.MIN_HIGH_SURROGATE..Char.MAX_HIGH_SURROGATE\n\n/**\n * Returns `true` if this character is a
Unicode low-surrogate
code unit (also known as trailing-surrogate code unit).\n */\npublic actual fun Char.isLowSurrogate(): Boolean =
this in Char.MIN_LOW_SURROGATE..Char.MAX_LOW_SURROGATE\n\n/**\n * Returns the Unicode general
category of this character.\n */\n@SinceKotlin(\"1.5\")\npublic actual val Char.category: CharCategory\n get() =
CharCategory.valueOf(getCategoryValue())\n\n/**\n * Returns `true` if this character (Unicode code point) is
defined in Unicode.\n *\n * A character is considered to be defined in Unicode if its [category] is not
[CharCategory.UNASSIGNED].\n */\n@SinceKotlin(\"1.5\")\npublic actual fun Char.isDefined(): Boolean {\n if
(this < '\\u0080') {\n return true\n }\n return getCategoryValue() !=
CharCategory.UNASSIGNED.value\n}\n\n/**\n * Returns `true` if this character is a letter.\n *\n * A character is
considered to be a letter if its [category] is [CharCategory.UPPERCASE_LETTER],\n *
[CharCategory.LOWERCASE_LETTER], [CharCategory.TITLECASE_LETTER],
[CharCategory.MODIFIER_LETTER],
or [CharCategory.OTHER_LETTER].\n *\n * @sample samples.text.Chars.isLetter\n
*/\n@SinceKotlin(\"1.5\")\npublic actual fun Char.isLetter(): Boolean {\n if (this in 'a'..'z' || this in 'A'..'Z') {\n
return true\n }\n if (this < '\\u0080') {\n return false\n }\n return isLetterImpl()\n}\n\n/**\n * Returns
`true` if this character is a letter or digit.\n *\n * @see isLetter\n * @see isDigit\n *\n * @sample
samples.text.Chars.isLetterOrDigit\n */\n@SinceKotlin(\"1.5\")\npublic actual fun Char.isLetterOrDigit(): Boolean
{\n if (this in 'a'..'z' || this in 'A'..'Z' || this in '0'..'9') {\n return true\n }\n if (this < '\\u0080') {\n return
false\n }\n\n return isDigitImpl() || isLetterImpl()\n}\n\n/**\n * Returns `true` if this character is a digit.\n *\n *
A character is considered to be a digit if its [category] is [CharCategory.DECIMAL_DIGIT_NUMBER].\n *\n *
@sample samples.text.Chars.isDigit\n */\n@SinceKotlin(\"1.5\")\npublic
actual fun Char.isDigit(): Boolean {\n if (this in '0'..'9') {\n return true\n }\n if (this < '\\u0080') {\n
return false\n }\n return isDigitImpl()\n}\n\n/**\n * Returns `true` if this character is upper case.\n *\n * A

```
character is considered to be an upper case character if its [category] is [CharCategory.UPPERCASE_LETTER],\n * or it has contributory property Other_Uppercase as defined by the Unicode Standard.\n *\n * @sample samples.text.Chars.isUpperCase\n */\n@SinceKotlin(\"1.5\")\npublic actual fun Char.isUpperCase(): Boolean {\n    if (this in 'A'..'Z') {\n        return true\n    }\n    if (this < '\\u0080') {\n        return false\n    }\n    return isUpperCaseImpl()\n}\n\n/**\n * Returns `true` if this character is lower case.\n *\n * A character is considered to be a lower case character if its [category] is [CharCategory.LOWERCASE_LETTER],\n * or it has contributory property Other_Lowercase as defined by the Unicode Standard.\n *\n * @sample samples.text.Chars.isLowerCase\n */\n@SinceKotlin(\"1.5\")\npublic actual fun Char.isLowerCase(): Boolean {\n    if (this in 'a'..'z') {\n        return true\n    }\n    if (this < '\\u0080') {\n        return false\n    }\n    return isLowerCaseImpl()\n}\n\n/**\n * Returns `true` if this character is a title case letter.\n *\n * A character is considered to be a title case letter if its [category] is [CharCategory.TITLECASE_LETTER].\n *\n * @sample samples.text.Chars.isTitleCase\n */\n@SinceKotlin(\"1.5\")\npublic actual fun Char.isTitleCase(): Boolean {\n    if (this < '\\u0080') {\n        return false\n    }\n    return getCategoryValue() == CharCategory.TITLECASE_LETTER.value\n}\n\n/**\n * Returns `true` if this character is an ISO control character.\n *\n * A character is considered to be an ISO control character if its [category] is [CharCategory.CONTROL],\n * meaning the Char is in the range `'\\u0000'..'\\u001F'` or in the range `'\\u007F'..'\\u009F'`.\n *\n * @sample samples.text.Chars.isISOControl\n */\n@SinceKotlin(\"1.5\")\npublic actual fun Char.isISOControl(): Boolean {\n    return this <= '\\u001F' || this in '\\u007F'..'\\u009F'\n}\n\n/**\n * Determines whether a character is whitespace according to the Unicode standard.\n * Returns `true` if the character is whitespace.\n *\n * @sample samples.text.Chars.isWhitespace\n */\npublic actual fun Char.isWhitespace(): Boolean = isWhitespaceImpl()","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\nimport kotlin.js.RegExp\n\n/**\n * Converts the characters in the specified array to a string.\n */\n@SinceKotlin(\"1.2\")\n@Deprecated(\"Use CharArray.concatToString() instead\", ReplaceWith(\"chars.concatToString()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\")\npublic actual fun String(chars: CharArray): String {\n    var result = \"\"\n    for (char in chars) {\n        result += char\n    }\n    return result\n}\n\n/**\n * Converts the characters from a portion of the specified array to a string.\n *\n * @throws IndexOutOfBoundsException if either [offset] or [length] are less than zero\n * or `offset + length` is out of [chars] array bounds.\n */\n@SinceKotlin(\"1.2\")\n@Deprecated(\"Use CharArray.concatToString(startIndex, endIndex) instead\", ReplaceWith(\"chars.concatToString(offset, offset + length)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\")\npublic actual fun String(chars: CharArray, offset: Int, length: Int): String {\n    if (offset < 0 || length < 0 || chars.size - offset < length)\n        throw IndexOutOfBoundsException(\"size: ${chars.size}; offset: $offset; length: $length\")\n    var result = \"\"\n    for (index in offset until offset + length) {\n        result += chars[index]\n    }\n    return result\n}\n\n/**\n * Concatenates characters in this [CharArray] into a String.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun CharArray.concatToString(): String {\n    var result = \"\"\n    for (char in this) {\n        result += char\n    }\n    return result\n}\n\n/**\n * Concatenates characters in this [CharArray] or its subrange into a String.\n *\n * @param startIndex the beginning (inclusive) of the subrange of characters, 0 by default.\n * @param endIndex the end (exclusive) of the subrange of characters, size of this array by default.\n *\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun CharArray.concatToString(startIndex: Int = 0, endIndex:
```

Int = this.size): String {\n AbstractList.checkBoundsIndexes(startIndex, endIndex, this.size)\n var result = \"\"\n for (index in startIndex until endIndex) {\n result += this[index]\n }\n return result\n}\n\n/**\n * Returns a [CharArray] containing characters of this string.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun String.toCharArray(): CharArray {\n return CharArray(length) { get(it) }\n}\n\n/**\n * Returns a [CharArray] containing characters of this string or its substring.\n *\n * @param startIndex the beginning (inclusive) of the substring, 0 by default.\n * @param endIndex the end (exclusive) of the substring, length of this string by default.\n *\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the length of this string.\n * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun String.toCharArray(startIndex: Int = 0, endIndex: Int = this.length): CharArray {\n AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n return CharArray(endIndex - startIndex) { get(startIndex + it) }\n}\n\n/**\n * Decodes a string from the bytes in UTF-8 encoding in this array.\n *\n * Malformed byte sequences are replaced by the replacement char `\\uFFFD`.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun ByteArray.decodeToString(): String {\n return decodeUtf8(this, 0, size, false)\n}\n\n/**\n * Decodes a string from the bytes in UTF-8 encoding in this array or its subrange.\n *\n * @param startIndex the beginning (inclusive) of the subrange to decode, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to decode, size of this array by default.\n * @param throwOnInvalidSequence specifies whether to throw an exception on malformed byte sequence or replace it by the replacement char `\\uFFFD`.\n *\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].\n * @throws CharacterCodingException if the byte array contains malformed UTF-8 byte sequence and [throwOnInvalidSequence] is true.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun ByteArray.decodeToString(\n startIndex: Int = 0,\n endIndex: Int = this.size,\n throwOnInvalidSequence: Boolean = false\n): String {\n AbstractList.checkBoundsIndexes(startIndex, endIndex, this.size)\n return decodeUtf8(this, startIndex, endIndex, throwOnInvalidSequence)\n}\n\n/**\n * Encodes this string to an array of bytes in UTF-8 encoding.\n *\n * Any malformed char sequence is replaced by the replacement byte sequence.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun String.encodeToByteArray(): ByteArray {\n return encodeUtf8(this, 0, length, false)\n}\n\n/**\n * Encodes this string or its substring to an array of bytes in UTF-8 encoding.\n *\n * @param startIndex the beginning (inclusive) of the substring to encode, 0 by default.\n * @param endIndex the end (exclusive) of the substring to encode, length of this string by default.\n * @param throwOnInvalidSequence specifies whether to throw an exception on malformed char sequence or replace.\n *\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the length of this string.\n * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].\n * @throws CharacterCodingException if this string contains malformed char sequence and [throwOnInvalidSequence] is true.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun String.encodeToByteArray(\n startIndex: Int = 0,\n endIndex: Int = this.length,\n throwOnInvalidSequence: Boolean = false\n): ByteArray {\n AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n return encodeUtf8(this, startIndex, endIndex, throwOnInvalidSequence)\n}\n\n/**\n * Returns a copy of this string converted to upper case using the rules of the default locale.\n */\n@Deprecated(\"Use uppercase() instead.\", ReplaceWith(\"uppercase()\"))\n@DeprecatedSinceKotlin(warningSince =

\"1.5\")\n@kotlin.internal.InlineOnly\npublic actual inline fun String.toUpperCase(): String = asDynamic().toUpperCase()\n\n/**\n * Returns a copy of this string converted to upper case using Unicode mapping rules of the invariant locale.\n *\n * This function supports one-to-many and many-to-one character mapping,\n * thus the length of the returned string can be different from the length of the original string.\n *\n * @sample samples.text.Strings.uppercase\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic actual inline fun String.uppercase(): String = asDynamic().toUpperCase()\n\n/**\n * Returns a copy of this string converted to lower case using the rules of the default locale.\n */\n@Deprecated(\"Use lowercase() instead.\", ReplaceWith(\"lowercase()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\n@kotlin.internal.InlineOnly\npublic actual inline fun String.toLowerCase(): String = asDynamic().toLowerCase()\n\n/**\n * Returns a copy of this string converted to lower case using Unicode mapping rules of the invariant locale.\n *\n * This function supports one-to-many and many-to-one character mapping,\n * thus the length of the returned string can be different from the length of the original string.\n *\n * @sample samples.text.Strings.lowercase\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic actual inline fun String.lowercase(): String = asDynamic().toLowerCase()\n\n@kotlin.internal.InlineOnly\ninternal actual inline fun String.nativeIndexOf(str: String, fromIndex: Int): Int = asDynamic().indexOf(str, fromIndex)\n\n@kotlin.internal.InlineOnly\ninternal actual inline fun String.nativeLastIndexOf(str: String, fromIndex: Int): Int = asDynamic().lastIndexOf(str, fromIndex)\n\n@kotlin.internal.InlineOnly\ninternal inline fun String.nativeStartsWith(s: String, position: Int): Boolean = asDynamic().startsWith(s, position)\n\n@kotlin.internal.InlineOnly\ninternal inline fun String.nativeEndsWith(s: String): Boolean = asDynamic().endsWith(s)\n\n@kotlin.internal.InlineOnly\npublic actual inline fun String.substring(startIndex: Int): String = asDynamic().substring(startIndex)\n\n@kotlin.internal.InlineOnly\npublic actual inline fun String.substring(startIndex: Int, endIndex: Int): String = asDynamic().substring(startIndex, endIndex)\n\n@Deprecated(\"Use String.plus() instead\", ReplaceWith(\"this + str\"))\n@DeprecatedSinceKotlin(warningSince = \"1.6\")\n@kotlin.internal.InlineOnly\npublic inline fun String.concat(str: String): String = asDynamic().concat(str)\n\n@Deprecated(\"Use Regex.findAll() instead or invoke matches() on String dynamically: this.asDynamic().match(regex)\")\n@DeprecatedSinceKotlin(warningSince = \"1.6\")\n@kotlin.internal.InlineOnly\npublic inline fun String.match(regex: String): Array<String>? = asDynamic().match(regex)\n\n//native public fun String.trim(): String\n//TODO: String.replace to implement effective trimLeading and trimTrailing\n\n@kotlin.internal.InlineOnly\ninternal inline fun String.nativeReplace(pattern: RegExp, replacement: String): String = asDynamic().replace(pattern, replacement)\n\n/**\n * Compares two strings lexicographically, optionally ignoring case differences.\n *\n * If [ignoreCase] is true, the result of `Char.uppercaseChar().lowercaseChar()` on each character is compared.\n */\n@SinceKotlin(\"1.2\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun String.compareTo(other: String, ignoreCase: Boolean = false): Int {\n    if (ignoreCase) {\n        val n1 = this.length\n        val n2 = other.length\n        val min = minOf(n1, n2)\n        if (min == 0) return n1 - n2\n        for (index in 0 until min) {\n            var thisChar = this[index]\n            var otherChar = other[index]\n\n            if (thisChar != otherChar) {\n                thisChar = thisChar.uppercaseChar()\n                otherChar = otherChar.uppercaseChar()\n\n                if (thisChar != otherChar) {\n                    thisChar = thisChar.lowercaseChar()\n                    otherChar = otherChar.lowercaseChar()\n\n                    if (thisChar != otherChar) {\n                        return thisChar.compareTo(otherChar)\n                    }\n                }\n            }\n        }\n        return n1 - n2\n    } else {\n        return compareTo(other)\n    }\n}\n\n/**\n * Returns `true` if the contents of this char sequence are equal to the contents of the specified [other],\n * i.e. both char sequences contain the same number of the same characters in the

same order.\n *\n * @sample samples.text.Strings.contentEquals\n */\n@SinceKotlin(\"1.5\")\npublic actual infix fun CharSequence?.contentEquals(other: CharSequence?): Boolean = contentEqualsImpl(other)\n\n/**\n * Returns `true` if the contents of this char sequence are equal to the contents of the specified [other], optionally ignoring case difference.\n *\n * @param ignoreCase `true` to ignore character case when comparing contents.\n *\n * @sample samples.text.Strings.contentEquals\n */\n@SinceKotlin(\"1.5\")\npublic actual fun CharSequence?.contentEquals(other: CharSequence?, ignoreCase: Boolean): Boolean {\n    return if (ignoreCase)\n        this.contentEqualsIgnoreCaseImpl(other)\n    else\n        this.contentEqualsImpl(other)\n}\n\n\nprivate val STRING_CASE_INSENSITIVE_ORDER = Comparator<String> { a, b -> a.compareTo(b, ignoreCase = true) }\n\n@SinceKotlin(\"1.2\")\npublic actual val String.Companion.CASE_INSENSITIVE_ORDER: Comparator<String>\n    get() = STRING_CASE_INSENSITIVE_ORDER\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"CharsKt\")\n\npackage kotlin.text\n\n/**\n * Returns the numeric value of the decimal digit that this Char represents.\n * Throws an exception if this Char is not a valid decimal digit.\n *\n * A Char is considered to represent a decimal digit if [isDigit] is true for the Char.\n * In this case, the Unicode decimal digit value of the character is returned.\n *\n * @sample samples.text.Chars.digitToInt\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun Char.digitToInt(): Int {\n    return digitOf(this, 10).also {\n        if (it < 0) throw IllegalArgumentException(\"Char $this is not a decimal digit\")\n    }\n}\n\n/**\n * Returns the numeric value of the digit that this Char represents in the specified [radix].\n * Throws an exception if the [radix] is not in the range `2..36` or if this Char is not a valid digit in the specified [radix].\n *\n * A Char is considered to represent a digit in the specified [radix] if at least one of the following is true:\n *  - [isDigit] is `true` for the Char and the Unicode decimal digit value of the character is less than the specified [radix]. In this case the decimal digit value is returned.\n *  - The Char is one of the uppercase Latin letters 'A' through 'Z' and its [code] is less than `radix + 'A'.code - 10`. In this case, `this.code - 'A'.code + 10` is returned.\n *  - The Char is one of the lowercase Latin letters 'a' through 'z' and its [code] is less than `radix + 'a'.code - 10`. In this case, `this.code - 'a'.code + 10` is returned.\n *  - The Char is one of the fullwidth Latin capital letters '\\uFF21' through '\\uFF3A' and its [code] is less than `radix + 0xFF21 - 10`. In this case, `this.code - 0xFF21 + 10` is returned.\n *  - The Char is one of the fullwidth Latin small letters '\\uFF41' through '\\uFF5A' and its [code] is less than `radix + 0xFF41 - 10`. In this case, `this.code - 0xFF41 + 10` is returned.\n *\n * @sample samples.text.Chars.digitToInt\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun Char.digitToInt(radix: Int): Int {\n    return digitToIntOrNull(radix) ?: throw IllegalArgumentException(\"Char $this is not a digit in the given radix=$radix\")\n}\n\n/**\n *\n * Returns the numeric value of the decimal digit that this Char represents, or `null` if this Char is not a valid decimal digit.\n *\n * A Char is considered to represent a decimal digit if [isDigit] is true for the Char.\n * In this case, the Unicode decimal digit value of the character is returned.\n *\n * @sample samples.text.Chars.digitToIntOrNull\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun Char.digitToIntOrNull(): Int? {\n    return digitOf(this, 10).takeIf { it >= 0 }\n}\n\n/**\n * Returns the numeric value of the digit that this Char represents in the specified [radix], or `null` if this Char is not a valid digit in the specified [radix].\n * Throws an exception if the [radix] is not in the range `2..36`.\n *\n * A Char is considered to represent a digit in the specified [radix] if at least one of the following is true:\n *  - [isDigit] is `true` for the Char and the Unicode decimal digit value of the character is less than the specified [radix]. In this case the decimal digit value is returned.\n *  - The Char is one of the uppercase Latin letters 'A' through 'Z' and its [code] is less than `radix + 'A'.code - 10`. In this case, `this.code - 'A'.code + 10` is

returned.\n *  - The Char is one of the lowercase Latin letters 'a' through 'z' and its [code] is less than `radix + 'a'.code - 10`. In this case, `this.code - 'a'.code + 10` is returned.\n *  - The Char is one of the fullwidth Latin capital letters '\\uFF21' through '\\uFF3A' and its [code] is less than `radix + 0xFF21 - 10`. In this case, `this.code - 0xFF21 + 10` is returned.\n *  - The Char is one of the fullwidth Latin small letters '\\uFF41' through '\\uFF5A' and its [code] is less than `radix + 0xFF41 - 10`. In this case, `this.code - 0xFF41 + 10` is returned.\n *\n * @sample samples.text.Chars.digitToIntOrNull\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun Char.digitToIntOrNull(radix: Int): Int? {\n    checkRadix(radix)\n    return digitOf(this, radix).takeIf { it >= 0 }\n}\n\n/**\n * Returns the Char that represents this decimal digit.\n * Throws an exception if this value is not in the range `0..9`.\n *\n * If this value is in `0..9`,
the decimal digit Char with code `'0'.code + this` is returned.\n *\n * @sample samples.text.Chars.digitToChar\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun Int.digitToChar(): Char {\n    if (this in 0..9) {\n        return '0' + this\n    }\n    throw IllegalArgumentException(\"Int $this is not a decimal digit\")\n}\n\n/**\n * Returns the Char that represents this numeric digit value in the specified [radix].\n * Throws an exception if the [radix] is not in the range `2..36` or if this value is not in the range `0 until radix`.\n *\n * If this value is less than `10`, the decimal digit Char with code `'0'.code + this` is returned.\n * Otherwise, the uppercase Latin letter with code `'A'.code + this - 10` is returned.\n *\n * @sample samples.text.Chars.digitToChar\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun Int.digitToChar(radix: Int): Char {\n    if (radix !in 2..36) {\n        throw IllegalArgumentException(\"Invalid
radix: $radix. Valid radix values are in range 2..36\")\n    }\n    if (this < 0 || this >= radix) {\n        throw IllegalArgumentException(\"Digit $this does not represent a valid digit in radix $radix\")\n    }\n    return if (this < 10) {\n        '0' + this\n    } else {\n        'A' + this - 10\n    }\n}\n\n/**\n * Converts this character to lower case using Unicode mapping rules of the invariant locale.\n */\n@Deprecated(\"Use lowercaseChar() instead.\", ReplaceWith(\"lowercaseChar()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic expect fun Char.toLowerCase(): Char\n\n/**\n * Converts this character to lower case using Unicode mapping rules of the invariant locale.\n *\n * This function performs one-to-one character mapping.\n * To support one-to-many character mapping use the [lowercase] function.\n * If this character has no mapping equivalent, the character itself is returned.\n *\n * @sample samples.text.Chars.lowercase\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic
expect fun Char.lowercaseChar(): Char\n\n/**\n * Converts this character to lower case using Unicode mapping rules of the invariant locale.\n *\n * This function supports one-to-many character mapping, thus the length of the returned string can be greater than one.\n * For example, `'\\u0130'.lowercase()` returns `\"\\u0069\\u0307\"`,\n * where `'\\u0130'` is the LATIN CAPITAL LETTER I WITH DOT ABOVE character (`\ufffd\ufffd`).\n * If this character has no lower case mapping, the result of `toString()` of this char is returned.\n *\n * @sample samples.text.Chars.lowercase\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Char.lowercase(): String\n\n/**\n * Converts this character to upper case using Unicode mapping rules of the invariant locale.\n */\n@Deprecated(\"Use uppercaseChar() instead.\", ReplaceWith(\"uppercaseChar()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic
expect fun Char.toUpperCase(): Char\n\n/**\n * Converts this character to upper case using Unicode mapping rules of the invariant locale.\n *\n * This function performs one-to-one character mapping.\n * To support one-to-many character mapping use the [uppercase] function.\n * If this character has no mapping equivalent, the character itself is returned.\n *\n * @sample samples.text.Chars.uppercase\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Char.uppercaseChar(): Char\n\n/**\n * Converts this character to upper case using Unicode mapping rules of the invariant locale.\n *\n * This function supports one-to-many character mapping, thus the length of the returned string can be greater than one.\n * For example, `'\\uFB00'.uppercase()` returns `\"\\u0046\\u0046\"`,\n * where `'\\uFB00'` is the LATIN SMALL LIGATURE FF character (`\ufffd\ufffd\ufffd`).\n * If this character has no upper

case mapping, the result of `toString()` of this char
is returned.\n *\n * @sample samples.text.Chars.uppercase\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Char.uppercase(): String\n\n/**\n * Converts this character to title case using Unicode mapping rules of the
invariant locale.\n *\n * This function performs one-to-one character mapping.\n * To support one-to-many
character mapping use the [titlecase] function.\n * If this character has no mapping equivalent, the result of calling
[uppercaseChar] is returned.\n *\n * @sample samples.text.Chars.titlecase\n */\n@SinceKotlin(\"1.5\")\npublic
expect fun Char.titlecaseChar(): Char\n\n/**\n * Converts this character to title case using Unicode mapping rules of
the invariant locale.\n *\n * This function supports one-to-many character mapping, thus the length of the returned
string can be greater than one.\n * For example, `\\uFB00'.titlecase()` returns `\"\\u0046\\u0066\"`,\n * where
`\\uFB00` is the LATIN SMALL LIGATURE FF character
(`\ufffd\ufffd\ufffd`).\n * If this character has no title case mapping, the result of [uppercase] is returned instead.\n
*\n * @sample samples.text.Chars.titlecase\n */\n@SinceKotlin(\"1.5\")\npublic fun Char.titlecase(): String =
titlecaseImpl()\n\n/**\n * Concatenates this Char and a String.\n *\n * @sample samples.text.Chars.plus\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun Char.plus(other: String): String = this.toString() +
other\n\n/**\n * Returns `true` if this character is equal to the [other] character, optionally ignoring character case.\n
*\n * Two characters are considered equal ignoring case if `Char.uppercaseChar().lowercaseChar()` on each
character produces the same result.\n *\n * @param ignoreCase `true` to ignore character case when comparing
characters. By default `false`.\n * @sample samples.text.Chars.equals\n */\npublic fun Char.equals(other: Char,
ignoreCase: Boolean = false): Boolean {\n    if (this == other) return true\n    if (!ignoreCase)
return false\n\n    val thisUpper = this.uppercaseChar()\n    val otherUpper = other.uppercaseChar()\n\n    return
thisUpper == otherUpper || thisUpper.lowercaseChar() == otherUpper.lowercaseChar()\n}\n\n/**\n * Returns `true`
if this character is a Unicode surrogate code unit.\n */\npublic fun Char.isSurrogate(): Boolean = this in
Char.MIN_SURROGATE..Char.MAX_SURROGATE\n\n/**\n * Returns the Unicode general category of this
character.\n */\n@SinceKotlin(\"1.5\")\npublic expect val Char.category: CharCategory\n\n/**\n * Returns `true` if
this character (Unicode code point) is defined in Unicode.\n *\n * A character is considered to be defined in Unicode
if its [category] is not [CharCategory.UNASSIGNED].\n */\n@SinceKotlin(\"1.5\")\npublic expect fun
Char.isDefined(): Boolean\n\n/**\n * Returns `true` if this character is a letter.\n *\n * A character is considered to
be a letter if its [category] is [CharCategory.UPPERCASE_LETTER],\n *
[CharCategory.LOWERCASE_LETTER], [CharCategory.TITLECASE_LETTER],
[CharCategory.MODIFIER_LETTER], or [CharCategory.OTHER_LETTER].\n *\n * @sample
samples.text.Chars.isLetter\n */\n@SinceKotlin(\"1.5\")\npublic expect fun Char.isLetter(): Boolean\n\n/**\n *
Returns `true` if this character is a letter or digit.\n *\n * @see isLetter\n * @see isDigit\n *\n * @sample
samples.text.Chars.isLetterOrDigit\n */\n@SinceKotlin(\"1.5\")\npublic expect fun Char.isLetterOrDigit():
Boolean\n\n/**\n * Returns `true` if this character is a digit.\n *\n * A character is considered to be a digit if its
[category] is [CharCategory.DECIMAL_DIGIT_NUMBER].\n *\n * @sample samples.text.Chars.isDigit\n
*/\n@SinceKotlin(\"1.5\")\npublic expect fun Char.isDigit(): Boolean\n\n/**\n * Returns `true` if this character is
upper case.\n *\n * A character is considered to be an upper case character if its [category] is
[CharCategory.UPPERCASE_LETTER],\n * or it has contributory property Other_Uppercase as defined by the
Unicode Standard.\n *\n * @sample samples.text.Chars.isUpperCase\n
*/\n@SinceKotlin(\"1.5\")\npublic expect fun Char.isUpperCase(): Boolean\n\n/**\n * Returns `true` if this
character is lower case.\n *\n * A character is considered to be a lower case character if its [category] is
[CharCategory.LOWERCASE_LETTER],\n * or it has contributory property Other_Lowercase as defined by the
Unicode Standard.\n *\n * @sample samples.text.Chars.isLowerCase\n */\n@SinceKotlin(\"1.5\")\npublic expect
fun Char.isLowerCase(): Boolean\n\n/**\n * Returns `true` if this character is a title case letter.\n *\n * A character
is considered to be a title case letter if its [category] is [CharCategory.TITLECASE_LETTER].\n *\n * @sample
samples.text.Chars.isTitleCase\n */\n@SinceKotlin(\"1.5\")\npublic expect fun Char.isTitleCase(): Boolean\n\n/**\n
* Returns `true` if this character is an ISO control character.\n *\n * A character is considered to be an ISO control

character if its [category] is [CharCategory.CONTROL],\n * meaning the Char is in the range `\\u0000'..'\\u001F'` or in the range `\\u007F'..'\\u009F'`.\n *\n * @sample samples.text.Chars.isISOControl\n */\n@SinceKotlin(\"1.5\")\npublic expect fun Char.isISOControl(): Boolean\n\n/**\n * Determines whether a character is whitespace according to the Unicode standard.\n * Returns `true` if the character is whitespace.\n *\n * @sample samples.text.Chars.isWhitespace\n */\npublic expect fun Char.isWhitespace(): Boolean\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\n\n/**\n * Creates a Char with the specified [code], or throws an exception if the [code] is out of `Char.MIN_VALUE.code..Char.MAX_VALUE.code`.\n *\n * If the program that calls this function is written in a way that only valid [code] is passed as the argument,\n * using the overload that takes a [UShort] argument is preferable (`Char(intValue.toUShort())`).\n * That overload doesn't check validity of the argument, and may improve program performance when the function is called routinely inside a loop.\n *\n * @sample samples.text.Chars.charFromCode\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Char(code: Int): Char {\n    if (code < Char.MIN_VALUE.code || code > Char.MAX_VALUE.code) {\n        throw IllegalArgumentException(\"Invalid Char code: $code\")\n    }\n    return code.toChar()\n}\n\n/**\n * Creates a Char with the specified [code].\n *\n * @sample samples.text.Chars.charFromCode\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress(\"NO_ACTUAL_FOR_EXPECT\")\npublic expect fun Char(code: UShort): Char\n\n/**\n * Returns the code of this Char.\n *\n * Code of a Char is the value it was constructed with, and the UTF-16 code unit corresponding to this Char.\n *\n * @sample samples.text.Chars.code\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION\")\npublic inline val Char.code: Int get() = this.toInt()\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"SequencesKt\")\n\npackage kotlin.sequences\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\n\n/**\n * Returns `true` if [element] is found in the sequence.\n *\n * The operation is _terminal_.\n */\npublic operator fun <@kotlin.internal.OnlyInputTypes T> Sequence<T>.contains(element: T): Boolean {\n    return indexOf(element) >= 0\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this sequence.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic fun <T> Sequence<T>.elementAt(index: Int): T {\n    return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"Sequence doesn't contain element at index $index.\") }\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this sequence.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\npublic fun <T> Sequence<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n    if (index < 0)\n        return defaultValue(index)\n    val iterator = iterator()\n    var count = 0\n    while (iterator.hasNext()) {\n        val element = iterator.next()\n        if (index == count++)\n            return element\n    }\n    return defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this sequence.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\npublic fun <T> Sequence<T>.elementAtOrNull(index: Int): T? {\n    if (index < 0)\n        return null\n    val iterator = iterator()\n    var count = 0\n    while (iterator.hasNext()) {\n        val element = iterator.next()\n        if (index == count++)\n            return element\n    }\n    return null\n}\n\n/**\n * Returns the first element matching the given

[predicate], or `null` if no such element was found.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.find(predicate: (T) -> Boolean): T? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.findLast(predicate: (T) -> Boolean): T? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the sequence is empty.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.first(): T {\n val iterator = iterator()\n if (!iterator.hasNext())\n throw NoSuchElementException(\"Sequence is empty.\")\n return iterator.next()\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.first(predicate: (T) -> Boolean): T {\n for (element in this) if (predicate(element)) return element\n throw NoSuchElementException(\"Sequence contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first non-null value produced by [transform] function being applied to elements of this sequence in iteration order,\n * or throws [NoSuchElementException] if no non-null value was produced.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.firstNotNullOf\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Any> Sequence<T>.firstNotNullOf(transform: (T) -> R?): R {\n return firstNotNullOfOrNull(transform) ?: throw NoSuchElementException(\"No element of the sequence was transformed to a non-null value.\")\n}\n\n/**\n * Returns the first non-null value produced by [transform] function being applied to elements of this sequence in iteration order,\n * or `null` if no non-null value was produced.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.firstNotNullOf\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Any> Sequence<T>.firstNotNullOfOrNull(transform: (T) -> R?): R? {\n for (element in this) {\n val result = transform(element)\n if (result != null) {\n return result\n }\n }\n return null\n}\n\n/**\n * Returns the first element, or `null` if the sequence is empty.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.firstOrNull(): T? {\n val iterator = iterator()\n if (!iterator.hasNext())\n return null\n return iterator.next()\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.firstOrNull(predicate: (T) -> Boolean): T? {\n for (element in this) if (predicate(element)) return element\n return null\n}\n\n/**\n * Returns first index of [element], or -1 if the sequence does not contain element.\n *\n * The operation is _terminal_.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T> Sequence<T>.indexOf(element: T): Int {\n var index = 0\n for (item in this) {\n checkIndexOverflow(index)\n if (element == item)\n return index\n index++\n }\n return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the sequence does not contain such element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n var index = 0\n for (item in this) {\n checkIndexOverflow(index)\n if (predicate(item))\n return index\n index++\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the sequence does not contain such element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.indexOfLast(predicate: (T) -> Boolean): Int {\n var lastIndex = -1\n var index = 0\n for (item in this) {\n checkIndexOverflow(index)\n if (predicate(item))\n lastIndex = index\n index++\n }\n return lastIndex\n}\n\n/**\n * Returns the last element.\n *\n * The operation is _terminal_.\n * \n * @throws NoSuchElementException if the sequence is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun <T> Sequence<T>.last(): T {\n val iterator = iterator()\n if (!iterator.hasNext())\n throw NoSuchElementException(\"Sequence is empty.\")\n var last = iterator.next()\n while (iterator.hasNext())\n last = iterator.next()\n return last\n}\n\n/**\n * Returns the last

element matching the given [predicate].\n *\n * The operation is _terminal_.\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun <T> Sequence<T>.last(predicate: (T) -> Boolean): T {\n var last: T? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n last = element\n found = true\n }\n }\n if (!found) throw NoSuchElementException(\"Sequence contains no element matching the predicate.\")\n @Suppress(\"UNCHECKED_CAST\")\n return last as T\n}\n\n/**\n * Returns last index of [element], or -1 if the sequence does not contain element.\n *\n * The operation is _terminal_.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T> Sequence<T>.lastIndexOf(element: T): Int {\n var lastIndex = -1\n var index = 0\n for (item in this) {\n checkIndexOverflow(index)\n if (element == item)\n lastIndex = index\n index++\n }\n return lastIndex\n}\n\n/**\n * Returns the last element, or `null` if the sequence is empty.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun <T> Sequence<T>.lastOrNull(): T? {\n val iterator = iterator()\n if (!iterator.hasNext())\n return null\n var last = iterator.next()\n while (iterator.hasNext())\n last = iterator.next()\n return last\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun <T> Sequence<T>.lastOrNull(predicate: (T) -> Boolean): T? {\n var last: T? = null\n for (element in this) {\n if (predicate(element)) {\n last = element\n }\n }\n return last\n}\n\n/**\n * Returns the single element, or throws an exception if the sequence is empty or has more than one element.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.single(): T {\n val iterator = iterator()\n if (!iterator.hasNext())\n throw NoSuchElementException(\"Sequence is empty.\")\n val single = iterator.next()\n if (iterator.hasNext())\n throw IllegalArgumentException(\"Sequence has more than one element.\")\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.single(predicate: (T) -> Boolean): T {\n var single: T? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) throw IllegalArgumentException(\"Sequence contains more than one matching element.\")\n single = element\n found = true\n }\n }\n if (!found) throw NoSuchElementException(\"Sequence contains no element matching the predicate.\")\n @Suppress(\"UNCHECKED_CAST\")\n return single as T\n}\n\n/**\n * Returns single element, or `null` if the sequence is empty or has more than one element.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.singleOrNull(): T? {\n val iterator = iterator()\n if (!iterator.hasNext())\n return null\n val single = iterator.next()\n if (iterator.hasNext())\n return null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.singleOrNull(predicate: (T) -> Boolean): T? {\n var single: T? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns a sequence containing all elements except first [n] elements.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Sequence<T>.drop(n: Int): Sequence<T> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return when {\n n == 0 -> this\n this is DropTakeSequence -> this.drop(n)\n else -> DropSequence(this, n)\n }\n}\n\n/**\n * Returns a sequence containing all elements except first elements that satisfy the given [predicate].\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Sequence<T>.dropWhile(predicate: (T) -> Boolean): Sequence<T> {\n return DropWhileSequence(this, predicate)\n}\n\n/**\n * Returns a sequence containing only elements matching the given [predicate].\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic fun <T> Sequence<T>.filter(predicate:

(T) -> Boolean): Sequence<T> {\n return FilteringSequence(this, true, predicate)\n}\n\n/**\n * Returns a sequence containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic fun <T> Sequence<T>.filterIndexed(predicate: (index: Int, T) -> Boolean): Sequence<T> {\n // TODO: Rewrite with generalized MapFilterIndexingSequence\n return TransformingSequence(FilteringSequence(IndexingSequence(this), true, { predicate(it.index, it.value) }), { it.value })\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <T, C : MutableCollection<in T>> Sequence<T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return destination\n}\n\n/**\n * Returns a sequence containing all elements that are instances of specified type parameter R.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Filtering.filterIsInstance\n */\npublic inline fun <reified R> Sequence<*>.filterIsInstance(): Sequence<@kotlin.internal.NoInfer R> {\n @Suppress(\"UNCHECKED_CAST\")\n return filter { it is R } as Sequence<R>\n}\n\n/**\n * Appends all elements that are instances of specified type parameter R to the given [destination].\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Filtering.filterIsInstanceTo\n */\npublic inline fun <reified R, C : MutableCollection<in R>> Sequence<*>.filterIsInstanceTo(destination: C): C {\n for (element in this) if (element is R) destination.add(element)\n return destination\n}\n\n/**\n * Returns a sequence containing all elements not matching the given [predicate].\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic fun <T> Sequence<T>.filterNot(predicate: (T) -> Boolean): Sequence<T> {\n return FilteringSequence(this, false, predicate)\n}\n\n/**\n * Returns a sequence containing all elements that are not `null`.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Filtering.filterNotNull\n */\npublic fun <T : Any> Sequence<T?>.filterNotNull(): Sequence<T> {\n @Suppress(\"UNCHECKED_CAST\")\n return filterNot { it == null } as Sequence<T>\n}\n\n/**\n * Appends all elements that are not `null` to the given [destination].\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Filtering.filterNotNullTo\n */\npublic fun <C : MutableCollection<in T>, T : Any> Sequence<T?>.filterNotNullTo(destination: C): C {\n for (element in this) if (element != null) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <T, C : MutableCollection<in T>> Sequence<T>.filterNotTo(destination: C, predicate: (T) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <T, C : MutableCollection<in T>> Sequence<T>.filterTo(destination:
C, predicate: (T) -> Boolean): C {\n for (element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Returns a sequence containing first [n] elements.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun <T> Sequence<T>.take(n: Int): Sequence<T> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return when {\n n == 0 -> emptySequence()\n this is DropTakeSequence -> this.take(n)\n else -> TakeSequence(this, n)\n }\n}\n\n/**\n * Returns a sequence containing first elements satisfying the given [predicate].\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Transformations.take\n

*/\npublic fun <T> Sequence<T>.takeWhile(predicate: (T) -> Boolean): Sequence<T> {\n return TakeWhileSequence(this, predicate)\n}\n\n/**\n * Returns a sequence that yields elements of this sequence sorted according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\n * The operation is _intermediate_ and _stateful_.\n */\npublic fun <T : Comparable<T>> Sequence<T>.sorted(): Sequence<T> {\n return object : Sequence<T> {\n override fun iterator(): Iterator<T> {\n val sortedList = this@sorted.toMutableList()\n sortedList.sort()\n return sortedList.iterator()\n }\n }\n}\n\n/**\n * Returns a sequence that yields elements of this sequence sorted according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\n * The operation is _intermediate_ and _stateful_.\n * \n * @sample samples.collections.Collections.Sorting.sortedBy\n */\npublic inline fun <T, R : Comparable<R>> Sequence<T>.sortedBy(crossinline selector: (T) -> R?): Sequence<T> {\n return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a sequence that yields elements of this sequence sorted descending according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\n * The operation is _intermediate_ and _stateful_.\n */\npublic inline fun <T, R : Comparable<R>> Sequence<T>.sortedByDescending(crossinline selector: (T) -> R?): Sequence<T> {\n return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a sequence that yields elements of this sequence sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\n * The operation is _intermediate_ and _stateful_.\n */\npublic fun <T : Comparable<T>> Sequence<T>.sortedDescending(): Sequence<T> {\n return sortedWith(reverseOrder())\n}\n\n/**\n * Returns a sequence that yields elements of this sequence sorted according to the specified [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\n * The operation is _intermediate_ and _stateful_.\n */\npublic fun <T> Sequence<T>.sortedWith(comparator: Comparator<in T>): Sequence<T> {\n return object : Sequence<T> {\n override fun iterator(): Iterator<T> {\n val sortedList = this@sortedWith.toMutableList()\n sortedList.sortWith(comparator)\n return sortedList.iterator()\n }\n }\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given sequence.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original sequence.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.associate\n */\npublic inline fun <T, K, V> Sequence<T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {\n return associateTo(LinkedHashMap<K, V>(), transform)\n}\n\n/**\n * Returns a [Map] containing the elements from the given sequence indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original sequence.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.associateBy\n */\npublic inline fun <T, K> Sequence<T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n return associateByTo(LinkedHashMap<K, T>(), keySelector)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given sequence.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original sequence.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.associateByWithValueTransform\n */\npublic inline fun <T, K, V> Sequence<T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {\n return associateByTo(LinkedHashMap<K, V>(), keySelector, valueTransform)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to

each element of the given sequence\n * and value is the element itself.\n * \n * If any two elements would have the same key returned
by [keySelector] the last one gets added to the map.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.associateByTo\n */\npublic inline fun <T, K, M : MutableMap<in K, in T>> Sequence<T>.associateByTo(destination: M, keySelector: (T) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given sequence.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.associateByToWithValueTransform\n */\npublic inline fun <T, K, V, M : MutableMap<in K, in V>> Sequence<T>.associateByTo(destination:
M, keySelector: (T) -> K, valueTransform: (T) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given sequence.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.associateTo\n */\npublic inline fun <T, K, V, M : MutableMap<in K, in V>> Sequence<T>.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Returns a [Map] where keys are elements from the given sequence and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two
elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original sequence.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n */\n@SinceKotlin(\"1.3\")\npublic inline fun <K, V> Sequence<K>.associateWith(valueSelector: (K) -> V): Map<K, V> {\n val result = LinkedHashMap<K, V>()\n return associateWithTo(result, valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given sequence,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n */\n@SinceKotlin(\"1.3\")\npublic inline fun <K, V, M : MutableMap<in K, in V>>
Sequence<K>.associateWithTo(destination: M, valueSelector: (K) -> V): M {\n for (element in this) {\n destination.put(element, valueSelector(element))\n }\n return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n *\n * The operation is _terminal_.\n */\npublic fun <T, C : MutableCollection<in T>> Sequence<T>.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.toHashSet(): HashSet<T> {\n return toCollection(HashSet<T>())\n}\n\n/**\n * Returns a [List] containing all elements.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.toList(): List<T> {\n return this.toMutableList().optimizeReadOnlyList()\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this sequence.\n *\n * The operation is _terminal_.\n
*/\npublic fun <T> Sequence<T>.toMutableList(): MutableList<T> {\n return toCollection(ArrayList<T>())\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original sequence.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.toSet(): Set<T> {\n return toCollection(LinkedHashSet<T>()).optimizeReadOnlySet()\n}\n\n/**\n * Returns a single sequence of all elements from results of [transform] function being invoked on each element of original sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample

samples.collections.Collections.Transformations.flatMap\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIterable\")\npublic fun <T, R>
Sequence<T>.flatMap(transform: (T) -> Iterable<R>): Sequence<R> {\n    return FlatteningSequence(this,
transform, Iterable<R>::iterator)\n}\n\n/**\n
 * Returns a single sequence of all elements from results of [transform] function being invoked on each element of
original sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n */\npublic fun <T, R> Sequence<T>.flatMap(transform:
(T) -> Sequence<R>): Sequence<R> {\n    return FlatteningSequence(this, transform,
Sequence<R>::iterator)\n}\n\n/**\n * Returns a single sequence of all elements yielded from results of [transform]
function being invoked on each element\n * and its index in the original sequence.\n *\n * The operation is
_intermediate_ and _stateless_.\n * \n * @sample
samples.collections.Collections.Transformations.flatMapIndexed\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterable\")\npublic fun <T, R>
Sequence<T>.flatMapIndexed(transform: (index: Int,
 T) -> Iterable<R>): Sequence<R> {\n    return flatMapIndexed(this, transform, Iterable<R>::iterator)\n}\n\n/**\n *
Returns a single sequence of all elements yielded from results of [transform] function being invoked on each
element\n * and its index in the original sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedSequence\")\npublic fun <T, R>
Sequence<T>.flatMapIndexed(transform: (index: Int, T) -> Sequence<R>): Sequence<R> {\n    return
flatMapIndexed(this, transform, Sequence<R>::iterator)\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element\n * and its index in the original sequence, to the given
[destination].\n *\n * The operation is _terminal_.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterableTo\")\n@kotlin.internal.InlineOnly\npubli
c
 inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.flatMapIndexedTo(destination: C, transform: (index:
Int, T) -> Iterable<R>): C {\n    var index = 0\n    for (element in this) {\n        val list =
transform(checkIndexOverflow(index++), element)\n        destination.addAll(list)\n    }\n    return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element\n * and its index in the original sequence, to the given [destination].\n *\n * The operation is _terminal_.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedSequenceTo\")\n@kotlin.internal.InlineOnly\npu
blic inline fun <T, R, C : MutableCollection<in R>>
 Sequence<T>.flatMapIndexedTo(destination: C, transform: (index: Int, T) -> Sequence<R>): C {\n    var index =
0\n    for (element in this) {\n        val list = transform(checkIndexOverflow(index++), element)\n
destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element of original sequence, to the given [destination].\n *\n * The
operation is _terminal_.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIterableTo\")\npublic inline fun <T, R, C :
MutableCollection<in R>> Sequence<T>.flatMapTo(destination: C, transform: (T) -> Iterable<R>): C {\n    for
(element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked

on each element of original sequence, to the given [destination].\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.flatMapTo(destination: C, transform: (T) -> Sequence<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Groups elements of the original sequence by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original sequence.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <T, K> Sequence<T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {\n return groupByTo(LinkedHashMap<K, MutableList<T>>(), keySelector)\n}\n\n/**\n
* Groups values returned by the [valueTransform] function applied to each element of the original sequence\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original sequence.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V> Sequence<T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups elements of the original sequence by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination]
map.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <T, K, M : MutableMap<in K, MutableList<T>>> Sequence<T>.groupByTo(destination: M, keySelector: (T) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<T>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original sequence\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V, M : MutableMap<in K, MutableList<V>>> Sequence<T>.groupByTo(destination:
M, keySelector: (T) -> K, valueTransform: (T) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Creates a [Grouping] source from a sequence to be used later with one of group-and-fold operations\n * using the specified [keySelector] function to extract a key from each element.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Grouping.groupingByEachCount\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <T, K> Sequence<T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> {\n return object : Grouping<T, K> {\n override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()\n override fun keyOf(element: T): K = keySelector(element)\n }\n}\n\n/**\n * Returns a sequence containing the results of applying the given [transform]
function\n * to each element in the original sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic fun <T, R> Sequence<T>.map(transform: (T) -> R): Sequence<R> {\n return TransformingSequence(this, transform)\n}\n\n/**\n * Returns a sequence containing the results of applying the given [transform] function\n * to each element and its index in the original sequence.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T, R> Sequence<T>.mapIndexed(transform: (index: Int, T) -> R): Sequence<R> {\n return TransformingIndexedSequence(this, transform)\n}\n\n/**\n * Returns a

sequence containing only the non-null results of applying the given [transform] function\n * to each element and its index in the original
sequence.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T, R : Any> Sequence<T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): Sequence<R> {\n return TransformingIndexedSequence(this, transform).filterNotNull()\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original sequence\n * and appends only the non-null results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Sequence<T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {\n forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original sequence\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(checkIndexOverflow(index++), item))\n return destination\n}\n\n/**\n * Returns a sequence containing only the non-null results of applying the given [transform] function\n * to each element in the original sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Transformations.mapNotNull\n */\npublic
fun <T, R : Any> Sequence<T>.mapNotNull(transform: (T) -> R?): Sequence<R> {\n return TransformingSequence(this, transform).filterNotNull()\n}\n\n/**\n * Applies the given [transform] function to each element in the original sequence\n * and appends only the non-null results to the given [destination].\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Sequence<T>.mapNotNullTo(destination: C, transform: (T) -> R?): C {\n forEach { element -> transform(element)?.let { destination.add(it) } }\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original sequence\n * and appends the results to the given [destination].\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.mapTo(destination: C, transform: (T) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Returns a
sequence that wraps each element of the original sequence\n * into an [IndexedValue] containing the index of that element and the element itself.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T> Sequence<T>.withIndex(): Sequence<IndexedValue<T>> {\n return IndexingSequence(this)\n}\n\n/**\n * Returns a sequence containing only distinct elements from the given sequence.\n * \n * Among equal elements of the given sequence, only the first one will be present in the resulting sequence.\n * The elements in the resulting sequence are in the same order as they were in the source sequence.\n *\n * The operation is _intermediate_ and _stateful_.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun <T> Sequence<T>.distinct(): Sequence<T> {\n return this.distinctBy { it }\n}\n\n/**\n * Returns a sequence containing only elements from the given sequence\n * having distinct keys returned by the given [selector] function.\n
* \n * Among elements of the given sequence with equal keys, only the first one will be present in the resulting sequence.\n * The elements in the resulting sequence are in the same order as they were in the source sequence.\n *\n * The operation is _intermediate_ and _stateful_.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun <T, K> Sequence<T>.distinctBy(selector: (T) -> K): Sequence<T> {\n return DistinctSequence(this, selector)\n}\n\n/**\n * Returns a new [MutableSet] containing all distinct elements from the given sequence.\n * \n * The returned set preserves the element iteration order of the original sequence.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.toMutableSet(): MutableSet<T> {\n val set = LinkedHashSet<T>()\n for (item in this)

```
set.add(item)\n    return set\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n *\n * The operation is _terminal_.\n *
 \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun <T> Sequence<T>.all(predicate: (T) -> Boolean): Boolean {\n    for (element in this) if (!predicate(element)) return false\n    return true\n}\n\n/**\n * Returns `true` if sequence has at least one element.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun <T> Sequence<T>.any(): Boolean {\n    return iterator().hasNext()\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun <T> Sequence<T>.any(predicate: (T) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return true\n    return false\n}\n\n/**\n * Returns the number of elements in this sequence.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.count(): Int {\n    var count =
 0\n    for (element in this) checkCountOverflow(++count)\n    return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.count(predicate: (T) -> Boolean): Int {\n    var count = 0\n    for (element in this) if (predicate(element)) checkCountOverflow(++count)\n    return count\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the specified [initial] value if the sequence is empty.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R> Sequence<T>.fold(initial: R, operation: (acc: R, T) -> R): R {\n    var accumulator = initial\n    for (element in this) accumulator = operation(accumulator, element)\n    return accumulator\n}\n\n/**\n
 * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original sequence.\n * \n * Returns the specified [initial] value if the sequence is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R> Sequence<T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {\n    var index = 0\n    var accumulator = initial\n    for (element in this) accumulator = operation(checkIndexOverflow(index++), accumulator, element)\n    return accumulator\n}\n\n/**\n * Performs the given [action] on each element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.forEach(action: (T) -> Unit): Unit {\n    for (element in this) action(element)\n}\n\n/**\n
 * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.forEachIndexed(action: (index: Int, T) -> Unit): Unit {\n    var index = 0\n    for (item in this) action(checkIndexOverflow(index++), item)\n}\n\n@Deprecated(\"Use maxOrNull instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.1\")\npublic fun Sequence<Double>.max(): Double? {\n    return maxOrNull()\n}\n\n@Deprecated(\"Use maxOrNull instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.1\")\npublic fun Sequence<Float>.max(): Float? {\n    return maxOrNull()\n}\n\n@Deprecated(\"Use maxOrNull
 instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun <T : Comparable<T>> Sequence<T>.max(): T? {\n    return maxOrNull()\n}\n\n@Deprecated(\"Use maxByOrNull instead.\", ReplaceWith(\"this.maxByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <T, R : Comparable<R>> Sequence<T>.maxBy(selector: (T) -> R): T? {\n    return maxByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n *\n * The operation is _terminal_.\n * \n * @sample
```

samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <T, R : Comparable<R>> Sequence<T>.maxByOrNull(selector: (T) -> R): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var maxElem = iterator.next()\n if (!iterator.hasNext()) return maxElem\n var maxValue = selector(maxElem)\n do {\n val e = iterator.next()\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n } while (iterator.hasNext())\n return maxElem\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the sequence.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the sequence is empty.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.maxOf(selector: (T) -> Double): Double {\n val iterator = iterator()\n if (!iterator.hasNext()) throw NoSuchElementException()\n var maxValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the sequence.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the sequence is empty.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.maxOf(selector: (T) -> Float): Float {\n val iterator = iterator()\n if (!iterator.hasNext()) throw NoSuchElementException()\n var maxValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the sequence.\n * \n * @throws NoSuchElementException if the sequence is empty.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Sequence<T>.maxOf(selector: (T) -> R): R {\n val iterator = iterator()\n if (!iterator.hasNext()) throw NoSuchElementException()\n var maxValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the sequence or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.maxOfOrNull(selector: (T) -> Double): Double? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var maxValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the sequence or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.maxOfOrNull(selector: (T) -> Float): Float? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var maxValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the sequence or `null` if there are no elements.\n *\n * The operation is _terminal_.\n

```
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>
Sequence<T>.maxOfOrNull(selector: (T) -> R): R? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return
null\n    var maxValue = selector(iterator.next())\n    while (iterator.hasNext())
 {\n        val v = selector(iterator.next())\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return
maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the sequence.\n * \n * @throws
NoSuchElementException if the sequence is empty.\n *\n * The operation is _terminal_.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R>
Sequence<T>.maxOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n    val iterator = iterator()\n    if
(!iterator.hasNext()) throw NoSuchElementException()\n    var maxValue = selector(iterator.next())\n    while
(iterator.hasNext()) {\n        val v = selector(iterator.next())\n        if (comparator.compare(maxValue, v) < 0) {\n
  maxValue = v\n        }\n    }\n    return
 maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the sequence or `null` if there are no elements.\n *\n *
The operation is _terminal_.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R>
Sequence<T>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n    val iterator =
iterator()\n    if (!iterator.hasNext()) return null\n    var maxValue = selector(iterator.next())\n    while
(iterator.hasNext()) {\n        val v = selector(iterator.next())\n        if (comparator.compare(maxValue, v) < 0) {\n
  maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest element or `null` if there are no
elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n *\n * The operation is _terminal_.\n
 */\n@SinceKotlin(\"1.4\")\npublic fun Sequence<Double>.maxOrNull(): Double? {\n    val iterator = iterator()\n
if (!iterator.hasNext()) return null\n    var max = iterator.next()\n    while (iterator.hasNext()) {\n        val e =
iterator.next()\n        max = maxOf(max, e)\n    }\n    return max\n}\n\n/**\n * Returns the largest element or `null` if
there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n *\n * The operation is _terminal_.\n
*/\n@SinceKotlin(\"1.4\")\npublic fun Sequence<Float>.maxOrNull(): Float? {\n    val iterator = iterator()\n    if
(!iterator.hasNext()) return null\n    var max = iterator.next()\n    while (iterator.hasNext()) {\n        val e =
iterator.next()\n        max = maxOf(max, e)\n    }\n    return max\n}\n\n/**\n * Returns the largest element or `null` if
there are no elements.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\npublic fun <T :
Comparable<T>> Sequence<T>.maxOrNull(): T? {\n    val iterator
 = iterator()\n    if (!iterator.hasNext()) return null\n    var max = iterator.next()\n    while (iterator.hasNext()) {\n
val e = iterator.next()\n        if (max < e) max = e\n    }\n    return max\n}\n\n@Deprecated(\"Use maxWithOrNull
instead.\", ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\",
errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun <T> Sequence<T>.maxWith(comparator: Comparator<in
T>): T? {\n    return maxWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the largest value
according to the provided [comparator] or `null` if there are no elements.\n *\n * The operation is _terminal_.\n
*/\n@SinceKotlin(\"1.4\")\npublic fun <T> Sequence<T>.maxWithOrNull(comparator: Comparator<in T>): T? {\n
 val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var max = iterator.next()\n    while
(iterator.hasNext()) {\n        val e = iterator.next()\n        if (comparator.compare(max,
 e) < 0) max = e\n    }\n    return max\n}\n\n@Deprecated(\"Use minOrNull instead.\",
ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\",
hiddenSince = \"1.6\")\n@SinceKotlin(\"1.1\")\npublic fun Sequence<Double>.min(): Double? {\n    return
minOrNull()\n}\n\n@Deprecated(\"Use minOrNull instead.\",
ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\",
hiddenSince = \"1.6\")\n@SinceKotlin(\"1.1\")\npublic fun Sequence<Float>.min(): Float? {\n    return
```

minOrNull()\n}\n\n@Deprecated(\"Use minOrNull instead.\",
ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\",
hiddenSince = \"1.6\")\npublic fun <T : Comparable<T>> Sequence<T>.min(): T? {\n return
minOrNull()\n}\n\n@Deprecated(\"Use minByOrNull instead.\",
ReplaceWith(\"this.minByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince =
\"1.5\", hiddenSince
= \"1.6\")\npublic inline fun <T, R : Comparable<R>> Sequence<T>.minBy(selector: (T) -> R): T? {\n return
minByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or
`null` if there are no elements.\n *\n * The operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <T, R :
Comparable<R>> Sequence<T>.minByOrNull(selector: (T) -> R): T? {\n val iterator = iterator()\n if
(!iterator.hasNext()) return null\n var minElem = iterator.next()\n if (!iterator.hasNext()) return minElem\n var
minValue = selector(minElem)\n do {\n val e = iterator.next()\n val v = selector(e)\n if (minValue >
v) {\n minElem = e\n minValue = v\n }\n } while (iterator.hasNext())\n return
minElem\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the sequence.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result
is `NaN`.\n * \n * @throws NoSuchElementException if the sequence is empty.\n *\n * The operation is
_terminal_.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.minOf(selector: (T) ->
Double): Double {\n val iterator = iterator()\n if (!iterator.hasNext()) throw NoSuchElementException()\n var
minValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n
minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all
values produced by [selector] function\n * applied to each element in the sequence.\n * \n * If any of values
produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException
if the sequence is empty.\n *\n * The operation is _terminal_.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.minOf(selector: (T) ->
Float): Float {\n val iterator = iterator()\n if (!iterator.hasNext()) throw NoSuchElementException()\n var
minValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n
minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all
values produced by [selector] function\n * applied to each element in the sequence.\n * \n * @throws
NoSuchElementException if the sequence is empty.\n *\n * The operation is _terminal_.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <T, R : Comparable<R>> Sequence<T>.minOf(selector: (T) -> R): R {\n val iterator = iterator()\n if
(!iterator.hasNext()) throw NoSuchElementException()\n var minValue = selector(iterator.next())\n while
(iterator.hasNext()) {\n val v = selector(iterator.next())\n if (minValue > v) {\n minValue = v\n
}\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector]
function\n * applied to each element in the sequence or `null` if there are no elements.\n * \n * If any of values
produced by [selector] function is `NaN`, the returned result is `NaN`.\n *\n * The operation is _terminal_.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.minOfOrNull(selector:
(T) -> Double): Double? {\n val iterator = iterator()\n if (!iterator.hasNext()) return
null\n var minValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v =
selector(iterator.next())\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the
smallest value among all values produced by [selector] function\n * applied to each element in the sequence or `null`
if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is

`NaN`.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.minOfOrNull(selector: (T) -> Float): Float? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var minValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the sequence or `null` if there are no elements.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Sequence<T>.minOfOrNull(selector: (T) -> R): R? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var minValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the sequence.\n * \n * @throws NoSuchElementException if the sequence is empty.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Sequence<T>.minOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n val iterator = iterator()\n if (!iterator.hasNext()) throw NoSuchElementException()\n var minValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the sequence or `null` if there are no elements.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Sequence<T>.minOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var minValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\npublic fun Sequence<Double>.minOrNull(): Double? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var min = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n min = minOf(min, e)\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n *\n * If any of elements is `NaN` returns `NaN`.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\npublic fun Sequence<Float>.minOrNull(): Float? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var min = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n min = minOf(min, e)\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\npublic fun <T : Comparable<T>> Sequence<T>.minOrNull(): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var min = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (min > e) min = e\n }\n return min\n}\n\n@Deprecated(\"Use minWithOrNull instead.\", ReplaceWith(\"this.minWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun <T> Sequence<T>.minWith(comparator: Comparator<in T>): T? {\n return minWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the smallest value according to the

provided [comparator] or `null` if there are no elements.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\npublic fun <T> Sequence<T>.minWithOrNull(comparator: Comparator<in T>): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var min = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns `true` if the sequence has no elements.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun <T> Sequence<T>.none(): Boolean {\n return !iterator().hasNext()\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n *\n * The operation is _terminal_.\n
* \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun <T> Sequence<T>.none(predicate: (T) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return true\n}\n\n/**\n * Returns a sequence which performs the given [action] on each element of the original sequence as they pass through it.\n *\n * The operation is _intermediate_ and _stateless_.\n */\n@SinceKotlin(\"1.1\")\npublic fun <T> Sequence<T>.onEach(action: (T) -> Unit): Sequence<T> {\n return map {\n action(it)\n it\n }\n}\n\n/**\n * Returns a sequence which performs the given [action] on each element of the original sequence as they pass through it.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n *\n * The operation is _intermediate_ and _stateless_.\n */\n@SinceKotlin(\"1.4\")\npublic fun <T> Sequence<T>.onEachIndexed(action: (index: Int, T) -> Unit): Sequence<T> {\n return mapIndexed { index, element ->\n action(index, element)\n element\n }\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Throws an exception if this sequence is empty. If the sequence can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun <S, T : S> Sequence<T>.reduce(operation: (acc: S, T) -> S): S {\n val iterator = this.iterator()\n if (!iterator.hasNext()) throw UnsupportedOperationException(\"Empty sequence can't be reduced.\")\n var accumulator: S = iterator.next()\n
while (iterator.hasNext()) {\n accumulator = operation(accumulator, iterator.next())\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original sequence.\n * \n * Throws an exception if this sequence is empty. If the sequence can be empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun <S, T : S> Sequence<T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {\n val iterator = this.iterator()\n if (!iterator.hasNext()) throw UnsupportedOperationException(\"Empty
sequence can't be reduced.\")\n var index = 1\n var accumulator: S = iterator.next()\n while (iterator.hasNext()) {\n accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())\n
}\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original sequence.\n * \n * Returns `null` if the sequence is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <S, T : S> Sequence<T>.reduceIndexedOrNull(operation: (index: Int, acc: S, T) -> S): S? {\n val iterator = this.iterator()\n if (!iterator.hasNext()) return null\n
var index = 1\n var accumulator: S = iterator.next()\n while (iterator.hasNext()) {\n accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())\n }\n return accumulator\n}\n\n/**\n *

Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the sequence is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S> Sequence<T>.reduceOrNull(operation: (acc: S, T) -> S): S? {\n val iterator = this.iterator()\n if (!iterator.hasNext()) return null\n var accumulator: S = iterator.next()\n while (iterator.hasNext()) {\n accumulator = operation(accumulator, iterator.next())\n }\n return accumulator\n}\n\n/**\n * Returns a sequence containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting sequence.\n * The [initial] value should also be immutable (or should not be mutated)\n * as it may be passed to [operation] function later because of sequence's lazy nature.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\npublic fun <T, R> Sequence<T>.runningFold(initial: R, operation: (acc: R, T) -> R): Sequence<R>
{\n return sequence {\n yield(initial)\n var accumulator = initial\n for (element in this@runningFold) {\n accumulator = operation(accumulator, element)\n yield(accumulator)\n }\n }\n}\n\n/**\n * Returns a sequence containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original sequence and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting sequence.\n * The [initial] value should also be immutable (or should not be mutated)\n * as it may be passed to [operation] function later because of sequence's lazy nature.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n *\n * The
operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\npublic fun <T, R> Sequence<T>.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): Sequence<R> {\n return sequence {\n yield(initial)\n var index = 0\n var accumulator = initial\n for (element in this@runningFoldIndexed) {\n accumulator = operation(checkIndexOverflow(index++), accumulator, element)\n yield(accumulator)\n }\n }\n}\n\n/**\n * Returns a sequence containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this sequence.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting sequence.\n * \n * @param [operation] function that takes current
accumulator value and the element, and calculates the next accumulator value.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <S, T : S> Sequence<T>.runningReduce(operation: (acc: S, T) -> S): Sequence<S> {\n return sequence {\n val iterator = iterator()\n if (iterator.hasNext()) {\n var accumulator: S = iterator.next()\n yield(accumulator)\n while (iterator.hasNext()) {\n accumulator = operation(accumulator, iterator.next())\n yield(accumulator)\n }\n }\n }\n}\n\n/**\n * Returns a sequence containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original sequence and current accumulator value that starts with the first element of this sequence.\n
* \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting sequence.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n *\n * The

operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin(\"1.4\")\npublic fun <S, T : S> Sequence<T>.runningReduceIndexed(operation: (index: Int, acc: S, T) -> S): Sequence<S> {\n return sequence {\n val iterator = iterator()\n if (iterator.hasNext()) {\n var accumulator: S = iterator.next()\n yield(accumulator)\n var index = 1\n while (iterator.hasNext()) {\n accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())\n yield(accumulator)\n }\n }\n}\n\n/**\n * Returns a sequence containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting sequence.\n * The [initial] value should also be immutable (or should not be mutated)\n * as it may be passed to [operation] function later because of sequence's lazy nature.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T, R> Sequence<T>.scan(initial: R, operation: (acc: R, T) -> R): Sequence<R> {\n return runningFold(initial, operation)\n}\n\n/**\n * Returns a sequence containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original sequence and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting sequence.\n * The [initial] value should also be immutable (or should not be mutated)\n * as it may be passed to [operation] function later because of sequence's lazy nature.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T, R> Sequence<T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): Sequence<R> {\n return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the sequence.\n *\n * The operation is _terminal_.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun <T> Sequence<T>.sumBy(selector: (T) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the sequence.\n *\n * The operation is _terminal_.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun <T> Sequence<T>.sumByDouble(selector: (T) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the sequence.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfDouble\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.sumOf(selector: (T) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the sequence.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfInt\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.sumOf(selector: (T) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the sequence.\n *\n * The operation is _terminal_.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfLong\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.sumOf(selector: (T) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the sequence.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.sumOf(selector: (T) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the sequence.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.sumOf(selector: (T) -> ULong): ULong {\n    var sum: ULong = 0.toULong()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns an original collection containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are any
`null` elements.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T : Any> Sequence<T?>.requireNoNulls(): Sequence<T> {\n    return map { it ?: throw IllegalArgumentException(\"null element found in $this.\") }\n}\n\n/**\n * Splits this sequence into a sequence of lists each not exceeding the given [size].\n * \n * The last list in the resulting sequence may have fewer elements than the given [size].\n * \n * @param size the number of elements to take in each list, must be positive and can be greater than the number of elements in this sequence.\n *\n * The operation is _intermediate_ and _stateful_.\n * \n * @sample samples.collections.Collections.Transformations.chunked\n */\n@SinceKotlin(\"1.2\")\npublic fun <T> Sequence<T>.chunked(size: Int): Sequence<List<T>> {\n    return windowed(size, size, partialWindows = true)\n}\n\n/**\n * Splits this sequence into several lists each not exceeding the given [size]\n * and applies the given [transform] function to
an each.\n * \n * @return sequence of results of the [transform] applied to an each list.\n * \n * Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * The last list may have fewer elements than the given [size].\n * \n * @param size the number of elements to take in each list, must be positive and can be greater than the number of elements in this sequence.\n *\n * The operation is _intermediate_ and _stateful_.\n * \n * @sample samples.text.Strings.chunkedTransform\n */\n@SinceKotlin(\"1.2\")\npublic fun <T, R> Sequence<T>.chunked(size: Int, transform: (List<T>) -> R): Sequence<R> {\n    return windowed(size, size, partialWindows = true, transform = transform)\n}\n\n/**\n * Returns a sequence containing all elements of the original sequence without the first occurrence of the given [element].\n *\n * The operation is _intermediate_
and _stateless_.\n */\npublic operator fun <T> Sequence<T>.minus(element: T): Sequence<T> {\n    return object: Sequence<T> {\n        override fun iterator(): Iterator<T> {\n            var removed = false\n            return this@minus.filter { if (!removed && it == element) { removed = true; false } else true }.iterator()\n        }\n    }\n}\n\n/**\n * Returns a sequence containing all elements of original sequence except the elements contained in the given [elements] array.\n * \n * Note that the source sequence and the array being subtracted are iterated only when an `iterator` is requested from\n * the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.\n * \n * Before Kotlin 1.6, the [elements] array may have been converted to a [HashSet] to speed up the operation, thus the elements were required to have\n * a correct and stable implementation of `hashCode()` that didn't change between successive invocations.\n * On JVM, you can
enable this behavior back with the system property `kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.\n *\n * The operation is _intermediate_ and _stateful_.\n */\npublic operator fun <T> Sequence<T>.minus(elements: Array<out T>): Sequence<T> {\n    if (elements.isEmpty()) return this\n    return

object: Sequence<T> {\n override fun iterator(): Iterator<T> {\n val other = elements.convertToSetForSetOperation()\n return this@minus.filterNot { it in other }.iterator()\n }\n }\n}\n\n/**\n * Returns a sequence containing all elements of original sequence except the elements contained in the given [elements] collection.\n * \n * Note that the source sequence and the collection being subtracted are iterated only when an `iterator` is requested from\n * the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.\n * \n * Before Kotlin 1.6, the [elements] collection may have been converted to a [HashSet] to speed up the operation, thus the elements were required to have\n * a correct and stable implementation of `hashCode()` that didn't change between successive invocations.\n * On JVM, you can enable this behavior back with the system property `kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.\n *\n * The operation is _intermediate_ and _stateful_.\n */\npublic operator fun <T> Sequence<T>.minus(elements: Iterable<T>): Sequence<T> {\n return object: Sequence<T> {\n override fun iterator(): Iterator<T> {\n val other = elements.convertToSetForSetOperation()\n if (other.isEmpty())\n return this@minus.iterator()\n else\n return this@minus.filterNot { it in other }.iterator()\n }\n }\n}\n\n/**\n * Returns a sequence containing all elements of original sequence except the elements contained in the given [elements] sequence.\n * \n * Note that the source sequence and the sequence being subtracted are iterated only when an `iterator` is requested from\n * the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.\n * \n * The operation is _intermediate_ for this sequence and _terminal_ and _stateful_ for the [elements] sequence.\n * \n * Before Kotlin 1.6, the [elements] sequence may have been converted to a [HashSet] to speed up the operation, thus the elements were required to have\n * a correct and stable implementation of `hashCode()` that didn't change between successive invocations.\n * On JVM, you can enable this behavior back with the system property `kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.\n */\npublic operator fun <T> Sequence<T>.minus(elements: Sequence<T>): Sequence<T> {\n return object: Sequence<T> {\n override fun iterator(): Iterator<T> {\n val other = elements.convertToSetForSetOperation()\n if (other.isEmpty())\n return this@minus.iterator()\n else\n return this@minus.filterNot { it in other }.iterator()\n }\n }\n}\n\n/**\n * Returns a sequence containing all elements of the original sequence without the first occurrence of the given [element].\n *\n * The operation is _intermediate_ and _stateless_.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.minusElement(element: T): Sequence<T> {\n return minus(element)\n}\n\n/**\n * Splits the original sequence into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n *\n * The operation is _terminal_.\n *\n * @sample samples.collections.Sequences.Transformations.partition\n */\npublic inline fun <T> Sequence<T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {\n val first = ArrayList<T>()\n val second = ArrayList<T>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Returns a sequence containing all elements of the original sequence and then the given [element].\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic operator fun <T> Sequence<T>.plus(element: T): Sequence<T> {\n return sequenceOf(this, sequenceOf(element)).flatten()\n}\n\n/**\n * Returns a sequence containing all elements of original sequence and then all elements of the given [elements] array.\n * \n * Note that the source sequence and the array being added are iterated only when an `iterator` is requested from\n * the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic operator fun <T> Sequence<T>.plus(elements: Array<out T>): Sequence<T> {\n return this.plus(elements.asList())\n}\n\n/**\n * Returns a sequence containing all elements of original sequence and then all elements of the given [elements] collection.\n * \n * Note that the source sequence and the collection being added are iterated only when an `iterator` is requested from\n * the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic operator fun <T>

Sequence<T>.plus(elements: Iterable<T>): Sequence<T> {\n    return sequenceOf(this, elements.asSequence()).flatten()\n}\n\n/**\n * Returns a sequence containing all elements of original sequence and then all elements of the given [elements] sequence.\n * \n * Note that the source sequence and the sequence being added are iterated only when an `iterator` is requested from\n * the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic operator fun <T> Sequence<T>.plus(elements: Sequence<T>): Sequence<T> {\n    return sequenceOf(this, elements).flatten()\n}\n\n/**\n * Returns a sequence containing all elements of the original sequence and then the given [element].\n *\n * The operation is _intermediate_ and _stateless_.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.plusElement(element: T): Sequence<T> {\n return plus(element)\n}\n\n/**\n * Returns a sequence of snapshots of the window of the given [size]\n * sliding along this sequence with the given [step], where each\n * snapshot is a list.\n * \n * Several last lists may have fewer elements than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the number of elements in this sequence.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls whether
 or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.takeWindows\n */\n@SinceKotlin(\"1.2\")\npublic fun <T> Sequence<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): Sequence<List<T>> {\n    return windowedSequence(size, step, partialWindows, reuseBuffer = false)\n}\n\n/**\n * Returns a sequence of results of applying the given [transform] function to\n * an each list representing a view over the window of the given [size]\n * sliding along this sequence with the given [step].\n * \n * Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * Several last lists may have fewer elements than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the
 number of elements in this sequence.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.averageWindows\n */\n@SinceKotlin(\"1.2\")\npublic fun <T, R> Sequence<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (List<T>) -> R): Sequence<R> {\n    return windowedSequence(size, step, partialWindows, reuseBuffer = true).map(transform)\n}\n\n/**\n * Returns a sequence of values built from the elements of `this` sequence and the [other] sequence with the same index.\n * The resulting sequence ends as soon as the shortest input sequence ends.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Sequences.Transformations.zip\n
 */\npublic infix fun <T, R> Sequence<T>.zip(other: Sequence<R>): Sequence<Pair<T, R>> {\n    return MergingSequence(this, other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a sequence of values built from the elements of `this` sequence and the [other] sequence with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The resulting sequence ends as soon as the shortest input sequence ends.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Sequences.Transformations.zipWithTransform\n */\npublic fun <T, R, V> Sequence<T>.zip(other: Sequence<R>, transform: (a: T, b: R) -> V): Sequence<V> {\n    return MergingSequence(this, other, transform)\n}\n\n/**\n * Returns a sequence of pairs of each two adjacent elements in this sequence.\n * \n * The returned sequence is empty if this sequence contains less than two elements.\n *\n * The operation is _intermediate_ and _stateless_.\n
 * \n * @sample samples.collections.Collections.Transformations.zipWithNext\n */\n@SinceKotlin(\"1.2\")\npublic fun <T> Sequence<T>.zipWithNext(): Sequence<Pair<T, T>> {\n    return zipWithNext { a, b -> a to b

}\n}\n\n/**\n * Returns a sequence containing the results of applying the given [transform] function\n * to an each pair of two adjacent elements in this sequence.\n * \n * The returned sequence is empty if this sequence contains less than two elements.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Transformations.zipWithNextToFindDeltas\n */\n@SinceKotlin(\"1.2\")\npublic fun <T, R> Sequence<T>.zipWithNext(transform: (a: T, b: T) -> R): Sequence<R> {\n return sequence result@ {\n val iterator = iterator()\n if (!iterator.hasNext()) return@result\n var current = iterator.next()\n while (iterator.hasNext()) {\n val next = iterator.next()\n yield(transform(current, next))\n current = next\n }\n }\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <T, A : Appendable> Sequence<T>.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((T) -> CharSequence)? = null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1) buffer.append(separator)\n if (limit < 0 || count <= limit) {\n buffer.appendElement(element, transform)\n } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun <T> Sequence<T>.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((T) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates an [Iterable]
instance that wraps the original sequence returning its elements when being iterated.\n */\npublic fun <T> Sequence<T>.asIterable(): Iterable<T> {\n return Iterable { this.iterator() }\n}\n\n/**\n * Returns this sequence as a [Sequence].\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.asSequence(): Sequence<T> {\n return this\n}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"averageOfByte\")\npublic fun Sequence<Byte>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"averageOfShort\")\npublic fun Sequence<Short>.average(): Double {\n var sum: Double = 0.0\n var count:
Int = 0\n for (element in this) {\n sum += element\n checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"averageOfInt\")\npublic fun Sequence<Int>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"averageOfLong\")\npublic fun Sequence<Long>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average
value of elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"averageOfFloat\")\npublic fun Sequence<Float>.average(): Double {\n var sum:

Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"averageOfDouble\")\npublic fun Sequence<Double>.average(): Double {\n    var sum: Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfByte\")\npublic fun Sequence<Byte>.sum(): Int {\n    var sum: Int = 0\n    for (element in this)
 {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfShort\")\npublic fun Sequence<Short>.sum(): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfInt\")\npublic fun Sequence<Int>.sum(): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfLong\")\npublic fun Sequence<Long>.sum(): Long {\n    var sum: Long = 0L\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfFloat\")\npublic
 fun Sequence<Float>.sum(): Float {\n    var sum: Float = 0.0f\n    for (element in this) {\n        sum += element\n }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfDouble\")\npublic fun Sequence<Double>.sum(): Double {\n    var sum: Double = 0.0\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"SetsKt\")\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\nimport kotlin.ranges.contains\nimport
 kotlin.ranges.reversed\n\n/**\n * Returns a set containing all elements of the original set except the given [element].\n * \n * The returned set preserves the element iteration order of the original set.\n */\npublic operator fun <T> Set<T>.minus(element: T): Set<T> {\n    val result = LinkedHashSet<T>(mapCapacity(size))\n    var removed = false\n    return this.filterTo(result) { if (!removed && it == element) { removed = true; false } else true }\n}\n\n/**\n * Returns a set containing all elements of the original set except the elements contained in the given [elements] array.\n * \n * The returned set preserves the element iteration order of the original set.\n * \n * Before Kotlin 1.6, the [elements] array may have been converted to a [HashSet] to speed up the operation, thus the elements were required to have\n * a correct and stable implementation of `hashCode()` that didn't change between successive invocations.\n * On JVM, you can enable this behavior back with
 the system property `kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.\n */\npublic operator fun <T> Set<T>.minus(elements: Array<out T>): Set<T> {\n    val result = LinkedHashSet<T>(this)\n result.removeAll(elements)\n    return result\n}\n\n/**\n * Returns a set containing all elements of the original set except the elements contained in the given [elements] collection.\n * \n * The returned set preserves the element iteration order of the original set.\n * \n * Before Kotlin 1.6, the [elements] collection may have been converted to a [HashSet] to speed up the operation, thus the elements were required to have\n * a correct and stable implementation of `hashCode()` that didn't change between successive invocations.\n * On JVM, you can enable this behavior back with the system property `kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.\n */\npublic operator fun <T> Set<T>.minus(elements: Iterable<T>): Set<T> {\n    val other = elements.convertToSetForSetOperationWith(this)\n

if (other.isEmpty())\n return this.toSet()\n if (other is Set)\n return this.filterNotTo(LinkedHashSet<T>()) { it in other }\n val result = LinkedHashSet<T>(this)\n result.removeAll(other)\n return result\n}\n\n/**\n * Returns a set containing all elements of the original set except the elements contained in the given [elements] sequence.\n * \n * The returned set preserves the element iteration order of the original set.\n * \n * Before Kotlin 1.6, the [elements] sequence may have been converted to a [HashSet] to speed up the operation, thus the elements were required to have\n * a correct and stable implementation of `hashCode()` that didn't change between successive invocations.\n * On JVM, you can enable this behavior back with the system property `kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.\n */\npublic operator fun <T> Set<T>.minus(elements: Sequence<T>): Set<T> {\n val result = LinkedHashSet<T>(this)\n result.removeAll(elements)\n return result\n}\n\n/**\n * Returns a set containing all elements of the original set except the given [element].\n * \n * The returned set preserves the element iteration order of the original set.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Set<T>.minusElement(element: T): Set<T> {\n return minus(element)\n}\n\n/**\n * Returns a set containing all elements of the original set and then the given [element] if it isn't already in this set.\n * \n * The returned set preserves the element iteration order of the original set.\n */\npublic operator fun <T> Set<T>.plus(element: T): Set<T> {\n val result = LinkedHashSet<T>(mapCapacity(size + 1))\n result.addAll(this)\n result.add(element)\n return result\n}\n\n/**\n * Returns a set containing all elements of the original set and the given [elements] array,\n * which aren't already in this set.\n * \n * The returned set preserves the element iteration order of the original set.\n */\npublic operator fun <T> Set<T>.plus(elements: Array<out T>): Set<T> {\n val result = LinkedHashSet<T>(mapCapacity(this.size + elements.size))\n result.addAll(this)\n result.addAll(elements)\n return result\n}\n\n/**\n * Returns a set containing all elements of the original set and the given [elements] collection,\n * which aren't already in this set.\n * The returned set preserves the element iteration order of the original set.\n */\npublic operator fun <T> Set<T>.plus(elements: Iterable<T>): Set<T> {\n val result = LinkedHashSet<T>(mapCapacity(elements.collectionSizeOrNull()?.let { this.size + it } ?: this.size * 2))\n result.addAll(this)\n result.addAll(elements)\n return result\n}\n\n/**\n * Returns a set containing all elements of the original set and the given [elements] sequence,\n * which aren't already in this set.\n * \n * The returned set preserves the element iteration order of the original set.\n */\npublic operator fun <T> Set<T>.plus(elements: Sequence<T>): Set<T> {\n val result = LinkedHashSet<T>(mapCapacity(this.size * 2))\n result.addAll(this)\n result.addAll(elements)\n return result\n}\n\n/**\n * Returns a set containing all elements of the original set and then the given [element] if it isn't already in this set.\n * \n * The returned set preserves the element iteration order of the original set.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Set<T>.plusElement(element: T): Set<T> {\n return plus(element)\n}\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"StringsKt\")\n\npackage kotlin.text\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\n\n/**\n * Returns a character at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this char sequence.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun CharSequence.elementAt(index: Int): Char\n\n/**\n * Returns a character at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this char sequence.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.elementAtOrElse(index: Int, defaultValue: (Int) -> Char): Char {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns a character at the given [index] or `null` if the [index] is out of bounds of this char sequence.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.elementAtOrNull(index:

Int): Char? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns the first character matching the given [predicate], or `null` if no such character was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.find(predicate: (Char) -> Boolean): Char? {\n    return firstOrNull(predicate)\n}\n\n/**\n * Returns the last character matching the given [predicate], or `null` if no such character was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.findLast(predicate: (Char) -> Boolean): Char? {\n    return lastOrNull(predicate)\n}\n\n/**\n * Returns first character.\n * @throws [NoSuchElementException] if the char sequence is empty.\n */\npublic fun CharSequence.first(): Char {\n    if (isEmpty())\n        throw NoSuchElementException(\"Char sequence is empty.\")\n    return this[0]\n}\n\n/**\n * Returns the first character matching the given [predicate].\n * @throws [NoSuchElementException] if no such character is found.\n */\npublic inline fun CharSequence.first(predicate: (Char) -> Boolean): Char {\n    for (element in this) if (predicate(element)) return element\n    throw NoSuchElementException(\"Char sequence contains no character matching the predicate.\")\n}\n\n/**\n * Returns the first non-null value produced by [transform] function being applied to characters of this char sequence in iteration order,\n * or throws [NoSuchElementException] if no non-null value was produced.\n * \n * @sample samples.collections.Collections.Transformations.firstNotNullOf\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun <R : Any> CharSequence.firstNotNullOf(transform: (Char) -> R?): R {\n    return firstNotNullOfOrNull(transform) ?: throw NoSuchElementException(\"No element of the char sequence was transformed to a non-null value.\")\n}\n\n/**\n * Returns the first non-null value produced by [transform] function being applied to characters of this char sequence in iteration order,\n * or `null` if no non-null value was produced.\n * \n * @sample samples.collections.Collections.Transformations.firstNotNullOf\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun <R : Any> CharSequence.firstNotNullOfOrNull(transform: (Char) -> R?): R? {\n    for (element in this) {\n        val result = transform(element)\n        if (result != null) {\n            return result\n        }\n    }\n    return null\n}\n\n/**\n * Returns the first character, or `null` if the char sequence is empty.\n */\npublic fun CharSequence.firstOrNull(): Char? {\n    return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first character matching the given [predicate], or `null` if character was not found.\n */\npublic inline fun CharSequence.firstOrNull(predicate: (Char) -> Boolean): Char? {\n    for (element in this) if (predicate(element)) return element\n    return null\n}\n\n/**\n * Returns a character at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this char sequence.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.getOrElse(index: Int, defaultValue: (Int) -> Char): Char {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns a character at the given [index] or `null` if the [index] is out of bounds of this char sequence.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n */\npublic fun CharSequence.getOrNull(index: Int): Char? {\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns index of the first character matching the given [predicate], or -1 if the char sequence does not contain such character.\n */\npublic inline fun CharSequence.indexOfFirst(predicate: (Char) -> Boolean): Int {\n    for (index in indices) {\n        if (predicate(this[index]))\n            return index\n    }\n    return -1\n}\n\n/**\n * Returns index of the last character matching the given [predicate], or -1 if the char sequence does not contain such character.\n */\npublic inline fun CharSequence.indexOfLast(predicate: (Char) -> Boolean): Int {\n    for (index in indices.reversed()) {\n        if (predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns the last character.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n * \n * @sample samples.text.Strings.last\n */\npublic fun CharSequence.last(): Char {\n    if (isEmpty())\n        throw NoSuchElementException(\"Char sequence is empty.\")\n    return this[lastIndex]\n}\n\n/**\n * Returns the last character matching the given [predicate].\n * \n * @throws NoSuchElementException if no such character is

found.\n * \n * @sample samples.text.Strings.last\n */\npublic inline fun CharSequence.last(predicate: (Char) -> Boolean): Char {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException(\"Char sequence contains no character matching the predicate.\")\n}\n\n/**\n * Returns the last character, or `null` if the char sequence is empty.\n * \n * @sample samples.text.Strings.last\n */\npublic fun CharSequence.lastOrNull(): Char? {\n return if (isEmpty()) null else this[length - 1]\n}\n\n/**\n * Returns the last character matching the given [predicate], or `null` if no such character was found.\n * \n * @sample samples.text.Strings.last\n */\npublic inline fun CharSequence.lastOrNull(predicate: (Char) -> Boolean): Char? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns a random character from this char sequence.\n * \n * @throws NoSuchElementException if this char sequence is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.random(): Char {\n return random(Random)\n}\n\n/**\n * Returns a random character from this char sequence using the specified source of randomness.\n * \n * @throws NoSuchElementException if this char sequence is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun CharSequence.random(random: Random): Char {\n if (isEmpty())\n throw NoSuchElementException(\"Char sequence is empty.\")\n return get(random.nextInt(length))\n}\n\n/**\n * Returns a random character from this char sequence, or `null` if this char sequence is empty.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.randomOrNull(): Char? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a random character from this char sequence using the specified source of randomness, or `null` if this char sequence is empty.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun CharSequence.randomOrNull(random: Random): Char? {\n if (isEmpty())\n return null\n return get(random.nextInt(length))\n}\n\n/**\n * Returns the single character, or throws an exception if the char sequence is empty or has more than one character.\n */\npublic fun CharSequence.single(): Char {\n return when (length) {\n 0 -> throw NoSuchElementException(\"Char sequence is empty.\")\n 1 -> this[0]\n else -> throw IllegalArgumentException(\"Char sequence has more than one element.\")\n }\n}\n\n/**\n * Returns the single character matching the given [predicate], or throws exception if there is no or more than one matching character.\n */\npublic inline fun CharSequence.single(predicate: (Char) -> Boolean): Char {\n var single: Char? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) throw IllegalArgumentException(\"Char sequence contains more than one matching element.\")\n single = element\n found = true\n }\n }\n if (!found) throw NoSuchElementException(\"Char sequence contains no character matching the predicate.\")\n @Suppress(\"UNCHECKED_CAST\")\n return single as Char\n}\n\n/**\n * Returns single character, or `null` if the char sequence is empty or has more than one character.\n */\npublic fun CharSequence.singleOrNull(): Char? {\n return if (length == 1) this[0] else null\n}\n\n/**\n * Returns the single character matching the given [predicate], or `null` if character was not found or more than one character was found.\n */\npublic inline fun CharSequence.singleOrNull(predicate: (Char) -> Boolean): Char? {\n var single: Char? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns a subsequence of this char sequence with the first [n] characters removed.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.drop\n */\npublic fun CharSequence.drop(n: Int): CharSequence {\n require(n >= 0) { \"Requested character count $n is less than zero.\" }\n return subSequence(n.coerceAtMost(length), length)\n}\n\n/**\n * Returns a string with the first [n] characters removed.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.drop\n */\npublic fun String.drop(n: Int): String {\n require(n >= 0) { \"Requested character count $n is less than zero.\" }\n return substring(n.coerceAtMost(length))\n}\n\n/**\n * Returns a subsequence of this char sequence with the last [n] characters removed.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.drop\n

```
*/\npublic fun CharSequence.dropLast(n: Int): CharSequence {\n    require(n >= 0) { \"Requested character count $n is less than zero.\" }\n    return take((length - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a string with the last [n] characters removed.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.drop\n */\npublic fun String.dropLast(n: Int): String {\n    require(n >= 0) { \"Requested character count $n is less than zero.\" }\n    return take((length - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a subsequence of this char sequence containing all characters except last characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.drop\n */\npublic inline fun CharSequence.dropLastWhile(predicate: (Char) -> Boolean): CharSequence {\n    for (index in lastIndex downTo 0)\n        if (!predicate(this[index]))\n            return subSequence(0, index + 1)\n    return \"\"\n}\n\n/**\n * Returns a string containing all characters except last characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.drop\n */\npublic inline fun String.dropLastWhile(predicate: (Char) -> Boolean): String {\n    for (index in lastIndex downTo 0)\n        if (!predicate(this[index]))\n            return substring(0, index + 1)\n    return \"\"\n}\n\n/**\n * Returns a subsequence of this char sequence containing all characters except first characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.drop\n */\npublic inline fun CharSequence.dropWhile(predicate: (Char) -> Boolean): CharSequence {\n    for (index in this.indices)\n        if (!predicate(this[index]))\n            return subSequence(index, length)\n    return \"\"\n}\n\n/**\n * Returns a string containing all characters except first characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.drop\n */\npublic inline fun String.dropWhile(predicate: (Char) -> Boolean): String {\n    for (index in this.indices)\n        if (!predicate(this[index]))\n            return substring(index)\n    return \"\"\n}\n\n/**\n * Returns a char sequence containing only those characters from the original char sequence that match the given [predicate].\n * \n * @sample samples.text.Strings.filter\n */\npublic inline fun CharSequence.filter(predicate: (Char) -> Boolean): CharSequence {\n    return filterTo(StringBuilder(), predicate)\n}\n\n/**\n * Returns a string containing only those characters from the original string that match the given [predicate].\n * \n * @sample samples.text.Strings.filter\n */\npublic inline fun String.filter(predicate: (Char) -> Boolean): String {\n    return filterTo(StringBuilder(), predicate).toString()\n}\n\n/**\n * Returns a char sequence containing only those characters from the original char sequence that match the given [predicate].\n * @param [predicate] function that takes the index of a character and the character itself\n * and returns the result of predicate evaluation on the character.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun CharSequence.filterIndexed(predicate: (index: Int, Char) -> Boolean): CharSequence {\n    return filterIndexedTo(StringBuilder(), predicate)\n}\n\n/**\n * Returns a string containing only those characters from the original string that match the given [predicate].\n * @param [predicate] function that takes the index of a character and the character itself\n * and returns the result of predicate evaluation on the character.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun String.filterIndexed(predicate: (index: Int, Char) -> Boolean): String {\n    return filterIndexedTo(StringBuilder(), predicate).toString()\n}\n\n/**\n * Appends all characters matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of a character and the character itself\n * and returns the result of predicate evaluation on the character.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <C : Appendable> CharSequence.filterIndexedTo(destination: C, predicate: (index: Int, Char) -> Boolean): C {\n    forEachIndexed { index, element ->\n        if (predicate(index, element)) destination.append(element)\n    }\n    return destination\n}\n\n/**\n * Returns a char sequence containing only those characters from the original char sequence that do not match the given [predicate].\n * \n * @sample samples.text.Strings.filterNot\n */\npublic inline fun CharSequence.filterNot(predicate: (Char) -> Boolean): CharSequence {\n    return filterNotTo(StringBuilder(), predicate)\n}\n\n/**\n * Returns a string containing only those characters from the original string that do not match the given [predicate].\n * \n * @sample samples.text.Strings.filterNot\n */\npublic inline fun String.filterNot(predicate: (Char) -> Boolean):
```

String {\n return filterNotTo(StringBuilder(), predicate).toString()\n}\n\n/**\n * Appends all characters not matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : Appendable> CharSequence.filterNotTo(destination: C, predicate: (Char) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.append(element)\n return destination\n}\n\n/**\n * Appends all characters matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : Appendable> CharSequence.filterTo(destination: C, predicate: (Char) -> Boolean): C {\n for (index in 0 until length) {\n val element = get(index)\n if (predicate(element)) destination.append(element)\n }\n return destination\n}\n\n/**\n * Returns a char sequence containing characters of the original char sequence at the specified range of [indices].\n */\npublic fun CharSequence.slice(indices: IntRange): CharSequence {\n if (indices.isEmpty()) return \"\"\n return subSequence(indices)\n}\n\n/**\n * Returns a string containing characters of the original string at the specified range of [indices].\n */\npublic fun String.slice(indices: IntRange): String {\n if (indices.isEmpty()) return \"\"\n return substring(indices)\n}\n\n/**\n * Returns a char sequence containing characters of the original char sequence at specified [indices].\n */\npublic fun CharSequence.slice(indices: Iterable<Int>): CharSequence {\n val size = indices.collectionSizeOrDefault(10)\n if (size == 0) return \"\"\n val result = StringBuilder(size)\n for (i in indices) {\n result.append(get(i))\n }\n return result\n}\n\n/**\n * Returns a string containing characters of the original string at specified [indices].\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.slice(indices: Iterable<Int>): String {\n return (this as CharSequence).slice(indices).toString()\n}\n\n/**\n * Returns a subsequence of this char sequence containing the first [n] characters from this char sequence, or the entire char sequence if this char sequence is shorter.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.take\n */\npublic fun CharSequence.take(n: Int): CharSequence {\n require(n >= 0) { \"Requested character count $n is less than zero.\" }\n return subSequence(0, n.coerceAtMost(length))\n}\n\n/**\n * Returns a string containing the first [n] characters from this string, or the entire string if this string is shorter.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.take\n */\npublic fun String.take(n: Int): String {\n require(n >= 0) { \"Requested character count $n is less than zero.\" }\n return substring(0, n.coerceAtMost(length))\n}\n\n/**\n * Returns a subsequence of this char sequence containing the last [n] characters from this char sequence, or the entire char sequence if this char sequence is shorter.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.take\n */\npublic fun CharSequence.takeLast(n: Int): CharSequence {\n require(n >= 0) { \"Requested character count $n is less than zero.\" }\n val length = length\n return subSequence(length - n.coerceAtMost(length), length)\n}\n\n/**\n * Returns a string containing the last [n] characters from this string, or the entire string if this string is shorter.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.take\n */\npublic fun String.takeLast(n: Int): String {\n require(n >= 0) { \"Requested character count $n is less than zero.\" }\n val length = length\n return substring(length - n.coerceAtMost(length))\n}\n\n/**\n * Returns a subsequence of this char sequence containing last characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.take\n */\npublic inline fun CharSequence.takeLastWhile(predicate: (Char) -> Boolean): CharSequence {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return subSequence(index + 1, length)\n }\n }\n return subSequence(0, length)\n}\n\n/**\n * Returns a string containing last characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.take\n */\npublic inline fun String.takeLastWhile(predicate: (Char) -> Boolean): String {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return substring(index + 1)\n }\n }\n return this\n}\n\n/**\n * Returns a subsequence of this char sequence containing the first characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.take\n */\npublic inline fun CharSequence.takeWhile(predicate: (Char) -> Boolean): CharSequence {\n for (index in 0 until length)\n if (!predicate(get(index))) {\n return subSequence(0, index)\n }\n return subSequence(0, length)\n}\n\n/**\n * Returns a string containing the first characters that satisfy the given

[predicate].\n * \n * @sample samples.text.Strings.take\n */\npublic inline fun String.takeWhile(predicate: (Char) -> Boolean): String {\n for (index in 0 until length)\n if (!predicate(get(index))) {\n return substring(0, index)\n }\n return this\n}\n\n/**\n * Returns a char sequence with characters in reversed order.\n */\npublic fun CharSequence.reversed(): CharSequence {\n return StringBuilder(this).reverse()\n}\n\n/**\n * Returns a string with characters in reversed order.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.reversed(): String {\n return (this as CharSequence).reversed().toString()\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n
* applied to characters of the given char sequence.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original char sequence.\n * \n * @sample samples.text.Strings.associate\n */\npublic inline fun <K, V> CharSequence.associate(transform: (Char) -> Pair<K, V>): Map<K, V> {\n val capacity = mapCapacity(length).coerceAtLeast(16)\n return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing the characters from the given char sequence indexed by the key\n * returned from [keySelector] function applied to each character.\n * \n * If any two characters would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original char sequence.\n * \n * @sample samples.text.Strings.associateBy\n */\npublic inline fun <K> CharSequence.associateBy(keySelector: (Char) -> K): Map<K, Char> {\n val capacity = mapCapacity(length).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, Char>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to characters of the given char sequence.\n * \n * If any two characters would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original char sequence.\n * \n * @sample samples.text.Strings.associateByWithValueTransform\n */\npublic inline fun <K, V> CharSequence.associateBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, V> {\n val capacity = mapCapacity(length).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the
[keySelector] function applied to each character of the given char sequence\n * and value is the character itself.\n * \n * If any two characters would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.text.Strings.associateByTo\n */\npublic inline fun <K, M : MutableMap<in K, in Char>> CharSequence.associateByTo(destination: M, keySelector: (Char) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to characters of the given char sequence.\n * \n * If any two characters would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.text.Strings.associateByToWithValueTransform\n */\npublic inline fun
<K, V, M : MutableMap<in K, in V>> CharSequence.associateByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each character of the given char sequence.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * @sample samples.text.Strings.associateTo\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> CharSequence.associateTo(destination: M, transform: (Char) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Returns a [Map] where keys are characters from the given char sequence and values are\n * produced by the [valueSelector] function applied to each character.\n
* \n * If any two characters are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original char sequence.\n * \n * @sample samples.text.Strings.associateWith\n */\n@SinceKotlin(\"1.3\")\npublic inline fun <V> CharSequence.associateWith(valueSelector: (Char) -> V):

Map<Char, V> {\n    val result = LinkedHashMap<Char, V>(mapCapacity(length.coerceAtMost(128)).coerceAtLeast(16))\n    return associateWithTo(result, valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each character of the given char sequence,\n * where key is the character itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two characters are equal, the last one overwrites the former value in the map.\n * \n * @sample samples.text.Strings.associateWithTo\n */\n@SinceKotlin(\"1.3\")\npublic inline fun <V, M : MutableMap<in Char, in V>> CharSequence.associateWithTo(destination: M, valueSelector: (Char) -> V): M {\n    for (element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return destination\n}\n\n/**\n * Appends all characters to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Char>> CharSequence.toCollection(destination: C): C {\n    for (item in this) {\n        destination.add(item)\n    }\n    return destination\n}\n\n/**\n * Returns a new [HashSet] of all characters.\n */\npublic fun CharSequence.toHashSet(): HashSet<Char> {\n    return toCollection(HashSet<Char>(mapCapacity(length.coerceAtMost(128))))\n}\n\n/**\n * Returns a [List] containing all characters.\n */\npublic fun CharSequence.toList(): List<Char> {\n    return when (length) {\n        0 -> emptyList()\n        1 -> listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a new [MutableList] filled with all characters of this char sequence.\n */\npublic fun CharSequence.toMutableList(): MutableList<Char> {\n    return toCollection(ArrayList<Char>(length))\n}\n\n/**\n * Returns a [Set] of all characters.\n * \n * The returned set preserves the element iteration order of the original char sequence.\n */\npublic fun CharSequence.toSet(): Set<Char> {\n    return when (length) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else -> toCollection(LinkedHashSet<Char>(mapCapacity(length.coerceAtMost(128))))\n    }\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each character of original char sequence.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R> CharSequence.flatMap(transform: (Char) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each character\n * and its index in the original char sequence.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterable\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharSequence.flatMapIndexed(transform: (index: Int, Char) -> Iterable<R>): List<R> {\n    return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each character\n * and its index in the original char sequence, to the given [destination].\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterableTo\")\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> CharSequence.flatMapIndexedTo(destination: C, transform: (index: Int, Char) -> Iterable<R>): C {\n    var index = 0\n    for (element in this) {\n        val list = transform(index++, element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each character of original char sequence, to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> CharSequence.flatMapTo(destination: C, transform: (Char) -> Iterable<R>): C {\n    for (element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Groups characters of the original char sequence by the key returned by the given [keySelector] function\n * applied to each character and returns a map where each group key is associated with a list of corresponding characters.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original char sequence.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n

```
*/\npublic inline fun <K> CharSequence.groupBy(keySelector: (Char) -> K): Map<K, List<Char>> {\n    return groupByTo(LinkedHashMap<K, MutableList<Char>>(), keySelector)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each character of the original char sequence\n * by the key returned by the given [keySelector] function applied to the character\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original char sequence.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> CharSequence.groupBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, List<V>> {\n    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups characters of the original char sequence by the key returned by
 the given [keySelector] function\n * applied to each character and puts to the [destination] map each group key associated with a list of corresponding characters.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Char>>> CharSequence.groupByTo(destination: M, keySelector: (Char) -> K): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list = destination.getOrPut(key) { ArrayList<Char>() }\n        list.add(element)\n    }\n    return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each character of the original char sequence\n * by the key returned by the given [keySelector] function applied to the character\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n
 */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> CharSequence.groupByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list = destination.getOrPut(key) { ArrayList<V>() }\n        list.add(valueTransform(element))\n    }\n    return destination\n}\n\n/**\n * Creates a [Grouping] source from a char sequence to be used later with one of group-and-fold operations\n * using the specified [keySelector] function to extract a key from each character.\n * \n * @sample samples.collections.Grouping.groupingByEachCount\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <K> CharSequence.groupingBy(crossinline keySelector: (Char) -> K): Grouping<Char, K> {\n    return object : Grouping<Char, K> {\n        override fun sourceIterator(): Iterator<Char> = this@groupingBy.iterator()\n        override fun keyOf(element: Char): K
 = keySelector(element)\n    }\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each character in the original char sequence.\n * \n * @sample samples.text.Strings.map\n */\npublic inline fun <R> CharSequence.map(transform: (Char) -> R): List<R> {\n    return mapTo(ArrayList<R>(length), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each character and its index in the original char sequence.\n * @param [transform] function that takes the index of a character and the character itself\n * and returns the result of the transform applied to the character.\n */\npublic inline fun <R> CharSequence.mapIndexed(transform: (index: Int, Char) -> R): List<R> {\n    return mapIndexedTo(ArrayList<R>(length), transform)\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform] function\n * to each character and its index in the original char sequence.\n
 * @param [transform] function that takes the index of a character and the character itself\n * and returns the result of the transform applied to the character.\n */\npublic inline fun <R : Any> CharSequence.mapIndexedNotNull(transform: (index: Int, Char) -> R?): List<R> {\n    return mapIndexedNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each character and its index in the original char sequence\n * and appends only the non-null results to the given [destination].\n * @param [transform] function that takes the index of a character and the character itself\n * and returns the result of the transform applied to the character.\n */\npublic inline fun <R : Any, C : MutableCollection<in R>> CharSequence.mapIndexedNotNullTo(destination: C, transform: (index: Int, Char) -> R?): C {\n    forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }\n    return destination\n}\n\n/**\n * Applies the given [transform]
```

function to each character and its index in the original char sequence\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of a character and the character itself\n * and returns the result of the transform applied to the character.\n */\npublic inline fun <R, C : MutableCollection<in R>> CharSequence.mapIndexedTo(destination: C, transform: (index: Int, Char) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform] function\n * to each character in the original char sequence.\n * \n * @sample samples.collections.Collections.Transformations.mapNotNull\n */\npublic inline fun <R : Any> CharSequence.mapNotNull(transform: (Char) -> R?): List<R> {\n return mapNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each character in the original char sequence\n * and appends only the non-null results to the given [destination].\n */\npublic inline fun <R : Any, C : MutableCollection<in R>> CharSequence.mapNotNullTo(destination: C, transform: (Char) -> R?): C {\n forEach { element -> transform(element)?.let { destination.add(it) } }\n return destination\n}\n\n/**\n * Applies the given [transform] function to each character of the original char sequence\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> CharSequence.mapTo(destination: C, transform: (Char) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each character of the original char sequence\n * into an [IndexedValue] containing the index of that character and the character itself.\n */\npublic fun CharSequence.withIndex(): Iterable<IndexedValue<Char>> {\n return IndexingIterable
{ iterator() }\n}\n\n/**\n * Returns `true` if all characters match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun CharSequence.all(predicate: (Char) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if char sequence has at least one character.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun CharSequence.any(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if at least one character matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun CharSequence.any(predicate: (Char) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns the length of this char sequence.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.count(): Int {\n
return length\n}\n\n/**\n * Returns the number of characters matching the given [predicate].\n */\npublic inline fun CharSequence.count(predicate: (Char) -> Boolean): Int {\n var count = 0\n for (element in this) if (predicate(element)) ++count\n return count\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each character.\n * \n * Returns the specified [initial] value if the char sequence is empty.\n * \n * @param [operation] function that takes current accumulator value and a character, and calculates the next accumulator value.\n */\npublic inline fun <R> CharSequence.fold(initial: R, operation: (acc: R, Char) -> R): R {\n var accumulator = initial\n for (element in this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each character with its index in the original char sequence.\n * \n * Returns the specified [initial] value if the char sequence is empty.\n * \n * @param [operation] function that takes the index of a character, current accumulator value\n * and the character itself, and calculates the next accumulator value.\n */\npublic inline fun <R> CharSequence.foldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each character and current accumulator value.\n * \n * Returns the specified [initial] value if the char sequence is empty.\n * \n * @param [operation] function that takes a character and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> CharSequence.foldRight(initial:

R, operation: (Char, acc: R) -> R): R {\n    var index = lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each character with its index in the original char sequence and current accumulator value.\n * \n * Returns the specified [initial] value if the char sequence is empty.\n * \n * @param [operation] function that takes the index of a character, the character itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> CharSequence.foldRightIndexed(initial: R, operation: (index: Int, Char, acc: R) -> R): R {\n    var index = lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n
 * Performs the given [action] on each character.\n */\npublic inline fun CharSequence.forEach(action: (Char) -> Unit): Unit {\n    for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each character, providing sequential index with the character.\n * @param [action] function that takes the index of a character and the character itself\n * and performs the action on the character.\n */\npublic inline fun CharSequence.forEachIndexed(action: (index: Int, Char) -> Unit): Unit {\n    var index = 0\n    for (item in this) action(index++, item)\n}\n\n@Deprecated(\"Use maxOrNull instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun CharSequence.max(): Char? {\n    return maxOrNull()\n}\n\n@Deprecated(\"Use maxByOrNull instead.\", ReplaceWith(\"this.maxByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince
 = \"1.6\")\npublic inline fun <R : Comparable<R>> CharSequence.maxBy(selector: (Char) -> R): Char? {\n return maxByOrNull(selector)\n}\n\n/**\n * Returns the first character yielding the largest value of the given function or `null` if there are no characters.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R : Comparable<R>> CharSequence.maxByOrNull(selector: (Char) -> R): Char? {\n    if (isEmpty()) return null\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each character in the char sequence.\n * \n * If any
 of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.maxOf(selector: (Char) -> Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each character in the char sequence.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
 inline fun CharSequence.maxOf(selector: (Char) -> Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each character in the char sequence.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> CharSequence.maxOf(selector: (Char) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var

maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each character in the char sequence or `null` if there are no characters.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.maxOfOrNull(selector: (Char) -> Double): Double? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each character in the char sequence or `null` if there are no characters.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.maxOfOrNull(selector: (Char) -> Float): Float? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each character in the char sequence or `null` if there are no characters.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> CharSequence.maxOfOrNull(selector: (Char) -> R): R? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each character in the char sequence.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharSequence.maxOfWith(comparator: Comparator<in R>, selector: (Char) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each character in the char sequence or `null` if there are no characters.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharSequence.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest character or `null` if there are no characters.\n */\n@SinceKotlin(\"1.4\")\npublic fun CharSequence.maxOrNull(): Char? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (max < e) max = e\n    }\n    return max\n}\n\n@Deprecated(\"Use maxWithOrNull instead.\", ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun CharSequence.maxWith(comparator: Comparator<in Char>): Char? {\n    return maxWithOrNull(comparator)\n}\n\n/**\n * Returns the first character having the largest value according to the provided [comparator] or `null` if there are no characters.\n */\n@SinceKotlin(\"1.4\")\npublic fun CharSequence.maxWithOrNull(comparator: Comparator<in Char>): Char? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(max, e) < 0) max = e\n

}\n    return max\n}\n\n@Deprecated(\"Use minOrNull instead.\", ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun CharSequence.min(): Char? {\n    return minOrNull()\n}\n\n@Deprecated(\"Use minByOrNull instead.\", ReplaceWith(\"this.minByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>> CharSequence.minBy(selector: (Char) -> R): Char? {\n    return minByOrNull(selector)\n}\n\n/**\n * Returns the first character yielding the smallest value of the given function or `null` if there are no characters.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R : Comparable<R>> CharSequence.minByOrNull(selector: (Char) -> R): Char? {\n    if (isEmpty()) return null\n    var minElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return minElem\n    var minValue = selector(minElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (minValue > v) {\n            minElem = e\n            minValue = v\n        }\n    }\n    return minElem\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each character in the char sequence.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.minOf(selector: (Char) -> Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each character in the char sequence.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.minOf(selector: (Char) -> Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each character in the char sequence.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> CharSequence.minOf(selector: (Char) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each character in the char sequence or `null` if there are no characters.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.minOfOrNull(selector: (Char) -> Double): Double? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each character in the char sequence or `null` if there are no characters.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.minOfOrNull(selector: (Char) -> Float): Float? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n *

Returns the smallest value among all values produced by [selector] function\n * applied to each character in the char sequence or `null` if there are no characters.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> CharSequence.minOfOrNull(selector: (Char) -> R): R? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each character in the char sequence.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharSequence.minOfWith(comparator: Comparator<in R>, selector: (Char) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each character in the char sequence or `null` if there are no characters.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharSequence.minOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest character or `null` if there are no characters.\n */\n@SinceKotlin(\"1.4\")\npublic fun CharSequence.minOrNull(): Char? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n@Deprecated(\"Use minWithOrNull instead.\", ReplaceWith(\"this.minWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun CharSequence.minWith(comparator: Comparator<in Char>): Char? {\n return minWithOrNull(comparator)\n}\n\n/**\n * Returns the first character having the smallest value according to the provided [comparator] or `null` if there are no characters.\n */\n@SinceKotlin(\"1.4\")\npublic fun CharSequence.minWithOrNull(comparator: Comparator<in Char>): Char? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns `true` if the char sequence has no characters.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun CharSequence.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if no characters match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun CharSequence.none(predicate: (Char) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return true\n}\n\n/**\n * Performs the given [action] on each character and returns the char sequence itself afterwards.\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <S : CharSequence> S.onEach(action: (Char) -> Unit): S {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each character, providing sequential index with the character,\n * and returns the char sequence itself afterwards.\n * @param [action] function that takes the index of a character and the character itself\n * and performs the action on the character.\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <S : CharSequence> S.onEachIndexed(action: (index: Int, Char) -> Unit): S {\n return apply { forEachIndexed(action) }\n}\n\n/**\n * Accumulates value starting with the first character and applying [operation] from left to right\n * to current accumulator value and each character.\n * \n * Throws an exception if this char sequence is empty. If the char sequence can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and a character,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n

*/\npublic inline fun CharSequence.reduce(operation: (acc: Char, Char) -> Char): Char {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty char sequence can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first character and applying [operation] from left to right\n * to current accumulator value and each character with its index in the original char sequence.\n * \n * Throws an exception if this char sequence is empty. If the char sequence can be empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of a character, current accumulator value and the character itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun CharSequence.reduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): Char {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty char sequence can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first character and applying [operation] from left to right\n * to current accumulator value and each character with its index in the original char sequence.\n * \n * Returns `null` if the char sequence is empty.\n * \n * @param [operation] function that takes the index of a character, current accumulator value and the character itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun CharSequence.reduceIndexedOrNull(operation: (index: Int, acc: Char, Char) -> Char): Char? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first character and applying [operation] from left to right\n * to current accumulator value and each character.\n * \n * Returns `null` if the char sequence is empty.\n * \n * @param [operation] function that takes current accumulator value and a character,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun CharSequence.reduceOrNull(operation: (acc: Char, Char) -> Char): Char? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last character and applying [operation] from right to left\n * to each character and current accumulator value.\n * \n * Throws an exception if this char sequence is empty. If the char sequence can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes a character and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun CharSequence.reduceRight(operation: (Char, acc: Char) -> Char): Char {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty char sequence can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last character and applying [operation] from right to left\n * to each character with its index in the original char sequence and current accumulator value.\n * \n * Throws an exception if this
char sequence is empty. If the char sequence can be empty in an expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of a character, the character itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun CharSequence.reduceRightIndexed(operation: (index: Int, Char, acc: Char) -> Char): Char {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty char sequence can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last character and applying [operation] from right to left\n * to each character with its index in the original char

sequence and current accumulator value.\n * \n * Returns `null` if the char sequence is empty.\n * \n * @param [operation] function that takes the index of a character, the character itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun CharSequence.reduceRightIndexedOrNull(operation: (index: Int, Char, acc: Char) -> Char): Char? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last character and applying [operation] from right to left\n * to each character and current accumulator value.\n * \n * Returns `null` if the char sequence is empty.\n * \n * @param [operation] function that takes a character
and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun CharSequence.reduceRightOrNull(operation: (Char, acc: Char) -> Char): Char? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each character and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and a character,
and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R> CharSequence.runningFold(initial: R, operation: (acc: R, Char) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(length + 1).apply { add(initial) }\n var accumulator = initial\n for (element in this) {\n accumulator = operation(accumulator, element)\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each character, its index in the original char sequence and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of a character,
current accumulator value\n * and the character itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R> CharSequence.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(length + 1).apply { add(initial) }\n var accumulator = initial\n for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each character and current accumulator value that starts with the first character of this char sequence.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting
list.\n * \n * @param [operation] function that takes current accumulator value and a character, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin(\"1.4\")\npublic inline fun CharSequence.runningReduce(operation: (acc: Char, Char) -> Char): List<Char> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Char>(length).apply { add(accumulator) }\n for (index in 1 until length) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each character, its index in the original char sequence and current accumulator value that starts with the first character of this char sequence.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n

```
 * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of a character, current accumulator value\n * and the character itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin(\"1.4\")\npublic inline fun CharSequence.runningReduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): List<Char> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Char>(length).apply { add(accumulator) }\n    for (index in 1 until length) {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each character and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and a character, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <R> CharSequence.scan(initial: R, operation: (acc: R, Char) -> R): List<R> {\n    return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each character, its index in the original char sequence and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index
 of a character, current accumulator value\n * and the character itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <R> CharSequence.scanIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {\n    return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each character in the char sequence.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun CharSequence.sumBy(selector: (Char) -> Int): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each character in the char sequence.\n */\n@Deprecated(\"Use
 sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun CharSequence.sumByDouble(selector: (Char) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each character in the char sequence.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfDouble\")\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.sumOf(selector: (Char) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each character in the char sequence.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfInt\")\n@kotlin.internal.InlineOnly\npublic
 inline fun CharSequence.sumOf(selector: (Char) -> Int): Int {\n    var sum: Int = 0.toInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each character in the char sequence.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfLong\")\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.sumOf(selector: (Char) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each character in the char sequence.\n
```

*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic
inline fun CharSequence.sumOf(selector: (Char) -> UInt): UInt {\n var sum: UInt = 0.toUInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each character in the char sequence.\n */\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.sumOf(selector: (Char) -> ULong): ULong {\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Splits this char sequence into
a list of strings each not exceeding the given [size].\n * \n * The last string in the resulting list may have fewer characters than the given [size].\n * \n * @param size the number of elements to take in each string, must be positive and can be greater than the number of elements in this char sequence.\n * \n * @sample samples.text.Strings.chunked\n */\n@SinceKotlin(\"1.2\")\npublic fun CharSequence.chunked(size: Int): List<String> {\n return windowed(size, size, partialWindows = true)\n}\n\n/**\n * Splits this char sequence into several char sequences each not exceeding the given [size]\n * and applies the given [transform] function to an each.\n * \n * @return list of results of the [transform] applied to an each char sequence.\n * \n * Note that the char sequence passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * The last char sequence may
have fewer characters than the given [size].\n * \n * @param size the number of elements to take in each char sequence, must be positive and can be greater than the number of elements in this char sequence.\n * \n * @sample samples.text.Strings.chunkedTransform\n */\n@SinceKotlin(\"1.2\")\npublic fun <R> CharSequence.chunked(size: Int, transform: (CharSequence) -> R): List<R> {\n return windowed(size, size, partialWindows = true, transform = transform)\n}\n\n/**\n * Splits this char sequence into a sequence of strings each not exceeding the given [size].\n * \n * The last string in the resulting sequence may have fewer characters than the given [size].\n * \n * @param size the number of elements to take in each string, must be positive and can be greater than the number of elements in this char sequence.\n * \n * @sample samples.collections.Collections.Transformations.chunked\n */\n@SinceKotlin(\"1.2\")\npublic fun CharSequence.chunkedSequence(size: Int): Sequence<String> {\n return
chunkedSequence(size) { it.toString() }\n}\n\n/**\n * Splits this char sequence into several char sequences each not exceeding the given [size]\n * and applies the given [transform] function to an each.\n * \n * @return sequence of results of the [transform] applied to an each char sequence.\n * \n * Note that the char sequence passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * The last char sequence may have fewer characters than the given [size].\n * \n * @param size the number of elements to take in each char sequence, must be positive and can be greater than the number of elements in this char sequence.\n * \n * @sample samples.text.Strings.chunkedTransformToSequence\n */\n@SinceKotlin(\"1.2\")\npublic fun <R> CharSequence.chunkedSequence(size: Int, transform: (CharSequence) -> R): Sequence<R> {\n return windowedSequence(size, size, partialWindows
= true, transform = transform)\n}\n\n/**\n * Splits the original char sequence into pair of char sequences,\n * where *first* char sequence contains characters for which [predicate] yielded `true`,\n * while *second* char sequence contains characters for which [predicate] yielded `false`.\n * \n * @sample samples.text.Strings.partition\n */\npublic inline fun CharSequence.partition(predicate: (Char) -> Boolean): Pair<CharSequence, CharSequence> {\n val first = StringBuilder()\n val second = StringBuilder()\n for (element in this) {\n if (predicate(element)) {\n first.append(element)\n } else {\n second.append(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original string into pair of strings,\n * where *first* string contains characters for which [predicate] yielded `true`,\n * while *second* string contains characters for which [predicate] yielded `false`.\n * \n * @sample samples.text.Strings.partition\n

```
*/\npublic inline fun String.partition(predicate: (Char) -> Boolean): Pair<String, String> {\n    val first = StringBuilder()\n    val second = StringBuilder()\n    for (element in this) {\n        if (predicate(element)) {\n            first.append(element)\n        } else {\n            second.append(element)\n        }\n    }\n    return Pair(first.toString(), second.toString())\n}\n\n/**\n * Returns a list of snapshots of the window of the given [size]\n * sliding along this char sequence with the given [step], where each\n * snapshot is a string.\n * \n * Several last strings may have fewer characters than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows
 in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.takeWindows\n */\n@SinceKotlin(\"1.2\")\npublic fun CharSequence.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): List<String> {\n    return windowed(size, step, partialWindows) { it.toString() }\n}\n\n/**\n * Returns a list of results of applying the given [transform] function to\n * an each char sequence representing a view over the window of the given [size]\n * sliding along this char sequence with the given [step].\n * \n * Note that the char sequence passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * Several last char sequences may have fewer characters than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the number of elements in
 this char sequence.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.averageWindows\n */\n@SinceKotlin(\"1.2\")\npublic fun <R> CharSequence.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (CharSequence) -> R): List<R> {\n    checkWindowSizeStep(size, step)\n    val thisSize = this.length\n    val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1\n    val result = ArrayList<R>(resultCapacity)\n    var index = 0\n    while (index in 0 until thisSize) {\n        val end = index + size\n        val coercedEnd = if (end < 0 || end > thisSize) { if (partialWindows) thisSize else break } else end\n        result.add(transform(subSequence(index,
 coercedEnd)))\n        index += step\n    }\n    return result\n}\n\n/**\n * Returns a sequence of snapshots of the window of the given [size]\n * sliding along this char sequence with the given [step], where each\n * snapshot is a string.\n * \n * Several last strings may have fewer characters than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.takeWindows\n */\n@SinceKotlin(\"1.2\")\npublic fun CharSequence.windowedSequence(size: Int, step: Int = 1, partialWindows: Boolean = false):
 Sequence<String> {\n    return windowedSequence(size, step, partialWindows) { it.toString() }\n}\n\n/**\n * Returns a sequence of results of applying the given [transform] function to\n * an each char sequence representing a view over the window of the given [size]\n * sliding along this char sequence with the given [step].\n * \n * Note that the char sequence passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * Several last char sequences may have fewer characters than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if
 any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.averageWindows\n */\n@SinceKotlin(\"1.2\")\npublic fun <R>
```

CharSequence.windowedSequence(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (CharSequence) -> R): Sequence<R> {\n    checkWindowSizeStep(size, step)\n    val windows = (if (partialWindows) indices else 0 until length - size + 1) step step\n    return windows.asSequence().map { index ->\n        val end = index + size\n        val coercedEnd = if (end < 0 || end > length) length else end\n        transform(subSequence(index, coercedEnd))\n    }\n}\n\n/**\n * Returns a list of pairs built from the characters of `this` and the [other] char sequences with the same index\n * The returned list has length of the shortest char sequence.\n * \n * @sample samples.text.Strings.zip\n */\npublic infix fun CharSequence.zip(other: CharSequence): List<Pair<Char, Char>> {\n    return zip(other) { c1, c2 -> c1 to c2 }\n}\n\n/**\n * Returns a list of values built from the characters of `this` and the [other] char sequences with the same index\n * using the provided [transform] function applied to each pair of characters.\n * The returned list has length of the shortest char sequence.\n * \n * @sample samples.text.Strings.zipWithTransform\n */\npublic inline fun <V> CharSequence.zip(other: CharSequence, transform: (a: Char, b: Char) -> V): List<V> {\n    val length = minOf(this.length, other.length)\n    val list = ArrayList<V>(length)\n    for (i in 0 until length) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of pairs of each two adjacent characters in this char sequence.\n * \n * The returned list is empty if this char sequence contains less than two characters.\n * \n * @sample samples.collections.Collections.Transformations.zipWithNext\n */\n@SinceKotlin(\"1.2\")\npublic fun CharSequence.zipWithNext(): List<Pair<Char, Char>> {\n    return zipWithNext { a, b -> a to b }\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to an each pair of two adjacent characters in this char sequence.\n * \n * The returned list is empty if this char sequence contains less than two characters.\n * \n * @sample samples.collections.Collections.Transformations.zipWithNextToFindDeltas\n */\n@SinceKotlin(\"1.2\")\npublic inline fun <R> CharSequence.zipWithNext(transform: (a: Char, b: Char) -> R): List<R> {\n    val size = length - 1\n    if (size < 1) return emptyList()\n    val result = ArrayList<R>(size)\n    for (index in 0 until size) {\n        result.add(transform(this[index], this[index + 1]))\n    }\n    return result\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original char sequence returning its characters when being iterated.\n */\npublic fun CharSequence.asIterable(): Iterable<Char> {\n    if (this is String && isEmpty()) return emptyList()\n    return Iterable { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original char sequence returning its characters when being iterated.\n */\npublic fun CharSequence.asSequence(): Sequence<Char> {\n    if (this is String && isEmpty()) return emptySequence()\n    return Sequence { this.iterator() }\n}\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"StringsKt\")\n\npackage kotlin.text\n\nimport kotlin.contracts.contract\nimport kotlin.jvm.JvmName\n\n/**\n * Returns a copy of this string converted to upper case using the rules of the default locale.\n */\n@Deprecated(\"Use uppercase() instead.\", ReplaceWith(\"uppercase()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic expect fun String.toUpperCase(): String\n\n/**\n * Returns a copy of this string converted to upper case using Unicode mapping rules of the invariant locale.\n *\n * This function supports one-to-many and many-to-one character mapping,\n * thus the length of the returned string can be different from the length of the original string.\n *\n * @sample samples.text.Strings.uppercase\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun String.uppercase(): String\n\n/**\n * Returns a copy of this string converted to lower case using the rules of the default locale.\n */\n@Deprecated(\"Use lowercase() instead.\", ReplaceWith(\"lowercase()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic expect fun String.toLowerCase(): String\n\n/**\n * Returns a copy of this string converted to lower case using Unicode mapping rules of the invariant locale.\n *\n * This function supports one-to-many and many-to-one character mapping,\n * thus the length of the returned string can be different

from the length of the original string.\n *\n * @sample samples.text.Strings.lowercase\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun String.lowercase(): String\n\n/**\n * Returns a copy of this string having its first letter titlecased using the rules of the default locale,\n * or the original string if it's empty or already starts with a title case letter.\n *\n * The title case of a character is usually the same as its upper case with several exceptions.\n * The particular list of characters with the special title case form depends on the underlying platform.\n *\n * @sample samples.text.Strings.capitalize\n */\n@Deprecated(\"Use replaceFirstChar instead.\", ReplaceWith(\"replaceFirstChar { if (it.isLowerCase()) it.titlecase() else it.toString() }\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic expect fun String.capitalize(): String\n\n/**\n * Returns a copy of this string having its first letter lowercased using the rules of the default locale,\n * or the original string if it's empty or already starts with a lower case letter.\n *\n * @sample samples.text.Strings.decapitalize\n */\n@Deprecated(\"Use replaceFirstChar instead.\", ReplaceWith(\"replaceFirstChar { it.lowercase() }\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic expect fun String.decapitalize(): String\n\n/**\n * Returns a sub sequence of this char sequence having leading and trailing characters matching the [predicate] removed.\n */\npublic inline fun CharSequence.trim(predicate: (Char) -> Boolean): CharSequence {\n    var startIndex = 0\n    var endIndex = length - 1\n    var startFound = false\n\n    while (startIndex <= endIndex) {\n        val index = if (!startFound) startIndex else endIndex\n        val match = predicate(this[index])\n\n        if (!startFound) {\n            if (!match)\n                startFound = true\n            else\n                startIndex += 1\n        } else {\n            if (!match)\n                break\n            else\n                endIndex -= 1\n        }\n    }\n\n    return subSequence(startIndex, endIndex + 1)\n}\n\n/**\n * Returns a string having leading and trailing characters matching the [predicate] removed.\n */\npublic inline fun String.trim(predicate: (Char) -> Boolean): String =\n    (this as CharSequence).trim(predicate).toString()\n\n/**\n * Returns a sub sequence of this char sequence having leading characters matching the [predicate] removed.\n */\npublic inline fun CharSequence.trimStart(predicate: (Char) -> Boolean): CharSequence {\n    for (index in this.indices)\n        if (!predicate(this[index]))\n            return subSequence(index, length)\n\n    return \"\"\n}\n\n/**\n * Returns a string having leading characters matching the [predicate] removed.\n */\npublic inline fun String.trimStart(predicate: (Char) -> Boolean): String =\n    (this as CharSequence).trimStart(predicate).toString()\n\n/**\n * Returns a sub sequence of this char sequence having trailing characters matching the [predicate] removed.\n */\npublic inline fun CharSequence.trimEnd(predicate: (Char) -> Boolean): CharSequence {\n    for (index in this.indices.reversed())\n        if (!predicate(this[index]))\n            return subSequence(0, index + 1)\n\n    return \"\"\n}\n\n/**\n * Returns a string having trailing characters matching the [predicate] removed.\n */\npublic inline fun String.trimEnd(predicate: (Char) -> Boolean): String =\n    (this as CharSequence).trimEnd(predicate).toString()\n\n/**\n * Returns a sub sequence of this char sequence having leading and trailing characters from the [chars] array removed.\n */\npublic fun CharSequence.trim(vararg chars: Char): CharSequence = trim { it in chars }\n\n/**\n * Returns a string having leading and trailing characters from the [chars] array removed.\n */\npublic fun String.trim(vararg chars: Char): String = trim { it in chars }\n\n/**\n * Returns a sub sequence of this char sequence having leading characters from the [chars] array removed.\n */\npublic fun CharSequence.trimStart(vararg chars: Char): CharSequence = trimStart { it in chars }\n\n/**\n * Returns a string having leading characters from the [chars] array removed.\n */\npublic fun String.trimStart(vararg chars: Char): String = trimStart { it in chars }\n\n/**\n * Returns a sub sequence of this char sequence having trailing characters from the [chars] array removed.\n */\npublic fun CharSequence.trimEnd(vararg chars: Char): CharSequence = trimEnd { it in chars }\n\n/**\n * Returns a string having trailing characters from the [chars] array removed.\n */\npublic fun String.trimEnd(vararg chars: Char): String = trimEnd { it in chars }\n\n/**\n * Returns a sub sequence of this char sequence having leading and trailing whitespace removed.\n */\npublic fun CharSequence.trim(): CharSequence = trim(Char::isWhitespace)\n\n/**\n * Returns a string having leading and trailing whitespace removed.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.trim(): String = (this as CharSequence).trim().toString()\n\n/**\n * Returns a sub sequence of this char sequence having leading whitespace removed.\n */\npublic fun CharSequence.trimStart(): CharSequence = trimStart(Char::isWhitespace)\n\n/**\n * Returns a string having leading whitespace removed.\n

```
*/\n@kotlin.internal.InlineOnly\npublic inline fun String.trimStart(): String = (this as CharSequence).trimStart().toString()\n\n/**\n * Returns a sub sequence of this char sequence having trailing whitespace removed.\n */\npublic fun CharSequence.trimEnd(): CharSequence = trimEnd(Char::isWhitespace)\n\n/**\n * Returns a string having trailing whitespace removed.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.trimEnd(): String = (this as CharSequence).trimEnd().toString()\n\n/**\n * Returns a char sequence with content of this char sequence padded at the beginning\n * to the specified [length] with the specified character or space.\n *\n * @param length the desired string length.\n * @param padChar the character to pad string with, if it has length less than the [length] specified. Space is used by default.\n * @return Returns a char sequence of length at least [length] consisting of `this` char sequence prepended with [padChar] as many times\n * as are necessary to reach that length.\n * @sample samples.text.Strings.padStart\n */\npublic fun CharSequence.padStart(length: Int, padChar: Char = ' '): CharSequence {\n    if (length < 0)\n        throw IllegalArgumentException(\"Desired length $length is less than zero.\")\n    if (length <= this.length)\n        return this.subSequence(0, this.length)\n\n    val sb = StringBuilder(length)\n    for (i in 1..(length - this.length))\n        sb.append(padChar)\n    sb.append(this)\n    return sb\n}\n\n/**\n * Pads the string to the specified [length] at the beginning with the specified character or space.\n *\n * @param length the desired string length.\n * @param padChar the character to pad string with, if it has length less than the [length] specified. Space is used by default.\n * @return Returns a string of length at least [length] consisting of `this` string prepended with [padChar] as many times\n * as are necessary to reach that length.\n * @sample samples.text.Strings.padStart\n */\npublic fun String.padStart(length: Int, padChar: Char = ' '): String =\n    (this as CharSequence).padStart(length, padChar).toString()\n\n/**\n * Returns a char sequence with content of this char sequence padded at the end\n * to the specified [length] with the specified character or space.\n *\n * @param length the desired string length.\n * @param padChar the character to pad string with, if it has length less than the [length] specified. Space is used by default.\n * @return Returns a char sequence of length at least [length] consisting of `this` char sequence appended with [padChar] as many times\n * as are necessary to reach that length.\n * @sample samples.text.Strings.padEnd\n */\npublic fun CharSequence.padEnd(length: Int, padChar: Char = ' '): CharSequence {\n    if (length < 0)\n        throw IllegalArgumentException(\"Desired length $length is less than zero.\")\n    if (length <= this.length)\n        return this.subSequence(0, this.length)\n\n    val sb = StringBuilder(length)\n    sb.append(this)\n    for (i in 1..(length - this.length))\n        sb.append(padChar)\n    return sb\n}\n\n/**\n * Pads the string to the specified [length] at the end with the specified character or space.\n *\n * @param length the desired string length.\n * @param padChar the character to pad string with, if it has length less than the [length] specified. Space is used by default.\n * @return Returns a string of length at least [length] consisting of `this` string appended with [padChar] as many times\n * as are necessary to reach that length.\n * @sample samples.text.Strings.padEnd\n */\npublic fun String.padEnd(length: Int, padChar: Char = ' '): String =\n    (this as CharSequence).padEnd(length, padChar).toString()\n\n/**\n * Returns `true` if this nullable char sequence is either `null` or empty.\n *\n * @sample samples.text.Strings.stringIsNullOrEmpty\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence?.isNullOrEmpty(): Boolean {\n    contract {\n        returns(false) implies (this@isNullOrEmpty != null)\n    }\n\n    return this == null || this.length == 0\n}\n\n/**\n * Returns `true` if this char sequence is empty (contains no characters).\n *\n * @sample samples.text.Strings.stringIsEmpty\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.isEmpty(): Boolean = length == 0\n\n/**\n * Returns `true` if this char sequence is not empty.\n *\n * @sample samples.text.Strings.stringIsNotEmpty\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.isNotEmpty(): Boolean = length > 0\n\n// implemented differently in JVM and JS\n//public fun String.isBlank(): Boolean = length() == 0 || all { it.isWhitespace() }\n\n/**\n * Returns `true` if this char sequence is not empty and contains some characters except of whitespace characters.\n *\n * @sample samples.text.Strings.stringIsNotBlank\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.isNotBlank(): Boolean = !isBlank()\n\n/**\n * Returns `true` if this nullable char sequence is either `null` or empty or consists solely of whitespace characters.\n *\n * @sample
```

samples.text.Strings.stringIsNullOrBlank\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence?.isNullOrBlank(): Boolean {\n    contract {\n        returns(false) implies (this@isNullOrBlank != null)\n    }\n\n    return this == null || this.isBlank()\n}\n\n/**\n * Iterator for characters of the given char sequence.\n */\npublic operator fun CharSequence.iterator(): CharIterator = object : CharIterator() {\n    private var index = 0\n\n    public override fun nextChar(): Char = get(index++)\n\n    public override fun hasNext(): Boolean = index < length\n}\n\n/**
 Returns the string if it is not `null`, or the empty string otherwise. */\n@kotlin.internal.InlineOnly\npublic inline fun String?.orEmpty(): String = this ?: \"\"\n\n/**\n * Returns this char sequence if it's not empty\n * or the result of calling [defaultValue] function if the char sequence is empty.\n *\n * @sample samples.text.Strings.stringIfEmpty\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun <C, R> C.ifEmpty(defaultValue: () -> R): R where C : CharSequence, C : R =\n    if (isEmpty()) defaultValue() else this\n\n/**\n * Returns this char sequence if it is not empty and doesn't consist solely of whitespace characters,\n * or the result of calling [defaultValue] function otherwise.\n *\n * @sample samples.text.Strings.stringIfBlank\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun <C, R> C.ifBlank(defaultValue: () -> R): R where C : CharSequence, C : R =\n    if (isBlank()) defaultValue() else this\n\n/**\n * Returns the range of valid character indices for this char sequence.\n */\npublic val CharSequence.indices: IntRange\n    get() = 0..length - 1\n\n/**\n * Returns the index of the last character in the char sequence or -1 if it is empty.\n */\npublic val CharSequence.lastIndex: Int\n    get() = this.length - 1\n\n/**\n * Returns `true` if this CharSequence has Unicode surrogate pair at the specified [index].\n */\npublic fun CharSequence.hasSurrogatePairAt(index: Int): Boolean {\n    return index in 0..length - 2\n            && this[index].isHighSurrogate()\n            && this[index + 1].isLowSurrogate()\n}\n\n/**\n * Returns a substring specified by the given [range] of indices.\n */\npublic fun String.substring(range: IntRange): String = substring(range.start, range.endInclusive + 1)\n\n/**\n * Returns a subsequence of this char sequence specified by the given [range] of indices.\n */\npublic fun CharSequence.subSequence(range: IntRange): CharSequence = subSequence(range.start, range.endInclusive + 1)\n\n/**\n * Returns a subsequence of this char sequence.\n *\n * This extension is chosen only for invocation with old-named parameters.\n * Replace parameter names with the same as those of [CharSequence.subSequence].\n */\n@kotlin.internal.InlineOnly\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\") // false warning\n@Deprecated(\"Use parameters named startIndex and endIndex.\", ReplaceWith(\"subSequence(startIndex = start, endIndex = end)\"))\npublic inline fun String.subSequence(start: Int, end: Int): CharSequence = subSequence(start, end)\n\n/**\n * Returns a substring of chars from a range of this char sequence starting at the [startIndex] and ending right before the [endIndex].\n *\n * @param startIndex the start index (inclusive).\n * @param endIndex the end index (exclusive). If not specified, the length of the char sequence is used.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.substring(startIndex: Int, endIndex: Int = length): String = subSequence(startIndex,
 endIndex).toString()\n\n/**\n * Returns a substring of chars at indices from the specified [range] of this char sequence.\n */\npublic fun CharSequence.substring(range: IntRange): String = subSequence(range.start, range.endInclusive + 1).toString()\n\n/**\n * Returns a substring before the first occurrence of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.substringBefore(delimiter: Char, missingDelimiterValue: String = this): String {\n    val index = indexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else substring(0, index)\n}\n\n/**\n * Returns a substring before the first occurrence of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.substringBefore(delimiter: String, missingDelimiterValue: String = this): String {\n    val index = indexOf(delimiter)\n
    return if (index == -1) missingDelimiterValue else substring(0, index)\n}\n\n/**\n * Returns a substring after the first occurrence of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.substringAfter(delimiter: Char, missingDelimiterValue: String = this): String {\n    val index = indexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else substring(index + 1, length)\n}\n\n/**\n * Returns a substring after the first occurrence of [delimiter].\n * If the

string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.substringAfter(delimiter: String, missingDelimiterValue: String = this): String {\n    val index = indexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else substring(index + delimiter.length, length)\n}\n\n/**\n * Returns a substring before the last
occurrence of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.substringBeforeLast(delimiter: Char, missingDelimiterValue: String = this): String {\n    val index = lastIndexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else substring(0, index)\n}\n\n/**\n * Returns a substring before the last occurrence of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.substringBeforeLast(delimiter: String, missingDelimiterValue: String = this): String {\n    val index = lastIndexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else substring(0, index)\n}\n\n/**\n * Returns a substring after the last occurrence of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic
fun String.substringAfterLast(delimiter: Char, missingDelimiterValue: String = this): String {\n    val index = lastIndexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else substring(index + 1, length)\n}\n\n/**\n * Returns a substring after the last occurrence of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.substringAfterLast(delimiter: String, missingDelimiterValue: String = this): String {\n    val index = lastIndexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else substring(index + delimiter.length, length)\n}\n\n/**\n * Returns a char sequence with content of this char sequence where its part at the given range\n * is replaced with the [replacement] char sequence.\n * @param startIndex the index of the first character to be replaced.\n * @param endIndex the index of the first character after the replacement to keep in the string.\n */\npublic fun CharSequence.replaceRange(startIndex: Int, endIndex: Int, replacement: CharSequence): CharSequence {\n    if (endIndex < startIndex)\n        throw IndexOutOfBoundsException(\"End index ($endIndex) is less than start index ($startIndex).\")\n    val sb = StringBuilder()\n    sb.appendRange(this, 0, startIndex)\n    sb.append(replacement)\n    sb.appendRange(this, endIndex, length)\n    return sb\n}\n\n/**\n * Replaces the part of the string at the given range with the [replacement] char sequence.\n * @param startIndex the index of the first character to be replaced.\n * @param endIndex the index of the first character after the replacement to keep in the string.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.replaceRange(startIndex: Int, endIndex: Int, replacement: CharSequence): String =\n    (this as CharSequence).replaceRange(startIndex, endIndex, replacement).toString()\n\n/**\n * Returns a char sequence with content of this char sequence where its
part at the given [range]\n * is replaced with the [replacement] char sequence.\n *\n * The end index of the [range] is included in the part to be replaced.\n */\npublic fun CharSequence.replaceRange(range: IntRange, replacement: CharSequence): CharSequence =\n    replaceRange(range.start, range.endInclusive + 1, replacement)\n\n/**\n * Replace the part of string at the given [range] with the [replacement] string.\n *\n * The end index of the [range] is included in the part to be replaced.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.replaceRange(range: IntRange, replacement: CharSequence): String =\n    (this as CharSequence).replaceRange(range, replacement).toString()\n\n/**\n * Returns a char sequence with content of this char sequence where its part at the given range is removed.\n *\n * @param startIndex the index of the first character to be removed.\n * @param endIndex the index of the first character after the removed part to keep in the string.\n *\n * [endIndex]
is not included in the removed part.\n */\npublic fun CharSequence.removeRange(startIndex: Int, endIndex: Int): CharSequence {\n    if (endIndex < startIndex)\n        throw IndexOutOfBoundsException(\"End index ($endIndex) is less than start index ($startIndex).\")\n\n    if (endIndex == startIndex)\n        return this.subSequence(0, length)\n\n    val sb = StringBuilder(length - (endIndex - startIndex))\n    sb.appendRange(this, 0, startIndex)\n    sb.appendRange(this, endIndex, length)\n    return sb\n}\n\n/**\n * Removes the part of a string at a given range.\n * @param startIndex the index of the first character to be removed.\n * @param endIndex the index of the first character after the removed part to keep in the string.\n *\n *  [endIndex] is not included in the removed part.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.removeRange(startIndex: Int, endIndex: Int): String =\n

(this as CharSequence).removeRange(startIndex, endIndex).toString()\n\n/**\n *
Returns a char sequence with content of this char sequence where its part at the given [range] is removed.\n *\n * The end index of the [range] is included in the removed part.\n */\npublic fun CharSequence.removeRange(range: IntRange): CharSequence = removeRange(range.start, range.endInclusive + 1)\n\n/**\n * Removes the part of a string at the given [range].\n *\n * The end index of the [range] is included in the removed part.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.removeRange(range: IntRange): String =\n (this as CharSequence).removeRange(range).toString()\n\n/**\n * If this char sequence starts with the given [prefix], returns a new char sequence\n * with the prefix removed. Otherwise, returns a new char sequence with the same characters.\n */\npublic fun CharSequence.removePrefix(prefix: CharSequence): CharSequence {\n if (startsWith(prefix)) {\n return subSequence(prefix.length, length)\n }\n return subSequence(0, length)\n}\n\n/**\n * If this
string starts with the given [prefix], returns a copy of this string\n * with the prefix removed. Otherwise, returns this string.\n */\npublic fun String.removePrefix(prefix: CharSequence): String {\n if (startsWith(prefix)) {\n return substring(prefix.length)\n }\n return this\n}\n\n/**\n * If this char sequence ends with the given [suffix], returns a new char sequence\n * with the suffix removed. Otherwise, returns a new char sequence with the same characters.\n */\npublic fun CharSequence.removeSuffix(suffix: CharSequence): CharSequence {\n if (endsWith(suffix)) {\n return subSequence(0, length - suffix.length)\n }\n return subSequence(0, length)\n}\n\n/**\n * If this string ends with the given [suffix], returns a copy of this string\n * with the suffix removed. Otherwise, returns this string.\n */\npublic fun String.removeSuffix(suffix: CharSequence): String {\n if (endsWith(suffix)) {\n return substring(0, length - suffix.length)\n
}\n return this\n}\n\n/**\n * When this char sequence starts with the given [prefix] and ends with the given [suffix],\n * returns a new char sequence having both the given [prefix] and [suffix] removed.\n * Otherwise returns a new char sequence with the same characters.\n */\npublic fun CharSequence.removeSurrounding(prefix: CharSequence, suffix: CharSequence): CharSequence {\n if ((length >= prefix.length + suffix.length) && startsWith(prefix) && endsWith(suffix)) {\n return subSequence(prefix.length, length - suffix.length)\n }\n return subSequence(0, length)\n}\n\n/**\n * Removes from a string both the given [prefix] and [suffix] if and only if\n * it starts with the [prefix] and ends with the [suffix].\n * Otherwise returns this string unchanged.\n */\npublic fun String.removeSurrounding(prefix: CharSequence, suffix: CharSequence): String {\n if ((length >= prefix.length + suffix.length) && startsWith(prefix) && endsWith(suffix)) {\n return substring(prefix.length,
length - suffix.length)\n }\n return this\n}\n\n/**\n * When this char sequence starts with and ends with the given [delimiter],\n * returns a new char sequence having this [delimiter] removed both from the start and end.\n * Otherwise returns a new char sequence with the same characters.\n */\npublic fun CharSequence.removeSurrounding(delimiter: CharSequence): CharSequence = removeSurrounding(delimiter, delimiter)\n\n/**\n * Removes the given [delimiter] string from both the start and the end of this string\n * if and only if it starts with and ends with the [delimiter].\n * Otherwise returns this string unchanged.\n */\npublic fun String.removeSurrounding(delimiter: CharSequence): String = removeSurrounding(delimiter, delimiter)\n\n/**\n * Replace part of string before the first occurrence of given delimiter with the [replacement] string.\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic
fun String.replaceBefore(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {\n val index = indexOf(delimiter)\n return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)\n}\n\n/**\n * Replace part of string before the first occurrence of given delimiter with the [replacement] string.\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.replaceBefore(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {\n val index = indexOf(delimiter)\n return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)\n}\n\n/**\n * Replace part of string after the first occurrence of given delimiter with the [replacement] string.\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.replaceAfter(delimiter:

Char, replacement: String, missingDelimiterValue: String = this): String {\n    val index = indexOf(delimiter)\n return if (index == -1) missingDelimiterValue else replaceRange(index + 1, length, replacement)\n}\n\n/**\n * Replace part of string after the first occurrence of given delimiter with the [replacement] string.\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.replaceAfter(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {\n    val index = indexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else replaceRange(index + delimiter.length, length, replacement)\n}\n\n/**\n * Replace part of string after the last occurrence of given delimiter with the [replacement] string.\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.replaceAfterLast(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {\n    val index = lastIndexOf(delimiter)\n return if (index == -1) missingDelimiterValue else replaceRange(index + delimiter.length, length, replacement)\n}\n\n/**\n * Replace part of string after the last occurrence of given delimiter with the [replacement] string.\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.replaceAfterLast(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {\n    val index = lastIndexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else replaceRange(index + 1, length, replacement)\n}\n\n/**\n * Replace part of string before the last occurrence of given delimiter with the [replacement] string.\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.replaceBeforeLast(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {\n    val index = lastIndexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)\n}\n\n/**\n * Replace part of string before the last occurrence of given delimiter with the [replacement] string.\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.replaceBeforeLast(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {\n    val index = lastIndexOf(delimiter)\n return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)\n}\n\n\n// public fun String.replace(oldChar: Char, newChar: Char, ignoreCase: Boolean): String // JVM- and JS-specific\n// public fun String.replace(oldValue: String, newValue: String, ignoreCase: Boolean): String // JVM- and JS-specific\n\n/**\n * Returns a new string obtained by replacing each substring of this char sequence that matches the given regular expression\n * with the given [replacement].\n *\n * The [replacement] can consist of any combination of literal text and $-substitutions. To treat the replacement string\n * literally escape it with the [kotlin.text.Regex.Companion.escapeReplacement] method.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.replace(regex: Regex, replacement: String): String = regex.replace(this, replacement)\n\n/**\n * Returns a new string obtained by replacing each substring of this char sequence that matches the given regular expression\n * with the result of the given function [transform] that takes [MatchResult] and returns a string to be used as a\n * replacement for that match.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.replace(regex: Regex, noinline transform: (MatchResult) -> CharSequence): String =\n regex.replace(this, transform)\n\n/**\n * Replaces the first occurrence of the given regular expression [regex] in this char sequence with specified [replacement] expression.\n *\n * @param replacement A replacement expression that can include substitutions. See [Regex.replaceFirst] for details.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.replaceFirst(regex: Regex, replacement: String): String = regex.replaceFirst(this, replacement)\n\n/**\n * Returns a copy of this string having its first character replaced with the result of the specified [transform],\n * or the original string if it's empty.\n *\n * @param transform function that takes the first character and returns the result of the transform applied to the character.\n *\n * @sample samples.text.Strings.replaceFirstChar\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@JvmName(\"replaceFirstCharWithChar\")\n@kotlin.internal.InlineOnly\npublic

```
 inline fun String.replaceFirstChar(transform: (Char) -> Char): String {\n    return if (isNotEmpty())
transform(this[0]) + substring(1) else this\n}\n\n/**\n * Returns a copy of this string having its first character
replaced with the result of the specified [transform],\n * or the original string if it's empty.\n *\n * @param
transform function that takes the first character and returns the result of the transform applied to the character.\n *\n
* @sample samples.text.Strings.replaceFirstChar\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@OptIn(kotlin.experimental.Exper
imentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@JvmName(\"replaceFirstCharWithC
harSequence\")\n@kotlin.internal.InlineOnly\npublic inline fun String.replaceFirstChar(transform: (Char) ->
CharSequence): String {\n    return if (isNotEmpty()) transform(this[0]).toString() + substring(1) else
this\n}\n\n\n/**\n * Returns `true` if this char sequence
 matches the given regular expression.\n */\n@kotlin.internal.InlineOnly\npublic inline infix fun
CharSequence.matches(regex: Regex): Boolean = regex.matches(this)\n\n/**\n * Implementation of
[regionMatches] for CharSequences.\n * Invoked when it's already known that arguments are not Strings, so that no
additional type checks are performed.\n */\ninternal fun CharSequence.regionMatchesImpl(thisOffset: Int, other:
CharSequence, otherOffset: Int, length: Int, ignoreCase: Boolean): Boolean {\n    if ((otherOffset < 0) || (thisOffset <
0) || (thisOffset > this.length - length) || (otherOffset > other.length - length)) {\n        return false\n    }\n\n    for
(index in 0 until length) {\n        if (!this[thisOffset + index].equals(other[otherOffset + index], ignoreCase))\n
return false\n    }\n    return true\n}\n\n/**\n * Returns `true` if this char sequence starts with the specified
character.\n */\npublic fun CharSequence.startsWith(char: Char, ignoreCase: Boolean = false):
 Boolean =\n    this.length > 0 && this[0].equals(char, ignoreCase)\n\n/**\n * Returns `true` if this char sequence
ends with the specified character.\n */\npublic fun CharSequence.endsWith(char: Char, ignoreCase: Boolean =
false): Boolean =\n    this.length > 0 && this[lastIndex].equals(char, ignoreCase)\n\n/**\n * Returns `true` if this
char sequence starts with the specified prefix.\n */\npublic fun CharSequence.startsWith(prefix: CharSequence,
ignoreCase: Boolean = false): Boolean {\n    if (!ignoreCase && this is String && prefix is String)\n        return
this.startsWith(prefix)\n    else\n        return regionMatchesImpl(0, prefix, 0, prefix.length, ignoreCase)\n}\n\n/**\n *
Returns `true` if a substring of this char sequence starting at the specified offset [startIndex] starts with the specified
prefix.\n */\npublic fun CharSequence.startsWith(prefix: CharSequence, startIndex: Int, ignoreCase: Boolean =
false): Boolean {\n    if (!ignoreCase && this is String && prefix is
 String)\n        return this.startsWith(prefix, startIndex)\n    else\n        return regionMatchesImpl(startIndex, prefix,
0, prefix.length, ignoreCase)\n}\n\n/**\n * Returns `true` if this char sequence ends with the specified suffix.\n
*/\npublic fun CharSequence.endsWith(suffix: CharSequence, ignoreCase: Boolean = false): Boolean {\n    if
(!ignoreCase && this is String && suffix is String)\n        return this.endsWith(suffix)\n    else\n        return
regionMatchesImpl(length - suffix.length, suffix, 0, suffix.length, ignoreCase)\n}\n\n\n// common prefix and
suffix\n\n/**\n * Returns the longest string `prefix` such that this char sequence and [other] char sequence both start
with this prefix,\n * taking care not to split surrogate pairs.\n * If this and [other] have no common prefix, returns
the empty string.\n\n * @param ignoreCase `true` to ignore character case when matching a character. By default
`false`.\n * @sample samples.text.Strings.commonPrefixWith\n */\npublic fun
CharSequence.commonPrefixWith(other:
 CharSequence, ignoreCase: Boolean = false): String {\n    val shortestLength = minOf(this.length, other.length)\n\n
 var i = 0\n    while (i < shortestLength && this[i].equals(other[i], ignoreCase = ignoreCase)) {\n        i++\n    }\n
if (this.hasSurrogatePairAt(i - 1) || other.hasSurrogatePairAt(i - 1)) {\n        i--\n    }\n    return subSequence(0,
i).toString()\n}\n\n/**\n * Returns the longest string `suffix` such that this char sequence and [other] char sequence
both end with this suffix,\n * taking care not to split surrogate pairs.\n * If this and [other] have no common suffix,
returns the empty string.\n\n * @param ignoreCase `true` to ignore character case when matching a character. By
default `false`.\n * @sample samples.text.Strings.commonSuffixWith\n */\npublic fun
CharSequence.commonSuffixWith(other: CharSequence, ignoreCase: Boolean = false): String {\n    val thisLength
= this.length\n    val otherLength = other.length\n    val
```

shortestLength = minOf(thisLength, otherLength)\n\n    var i = 0\n    while (i < shortestLength && this[thisLength - i - 1].equals(other[otherLength - i - 1], ignoreCase = ignoreCase)) {\n        i++\n    }\n    if (this.hasSurrogatePairAt(thisLength - i - 1) || other.hasSurrogatePairAt(otherLength - i - 1)) {\n        i--\n    }\n    return subSequence(thisLength - i, thisLength).toString()\n}\n\n\n// indexOfAny()\n\n/**\n * Finds the index of the first occurrence of any of the specified [chars] in this char sequence,\n * starting from the specified [startIndex] and optionally ignoring the case.\n *\n * @param ignoreCase `true` to ignore character case when matching a character. By default `false`.\n * @return An index of the first occurrence of matched character from [chars] or -1 if none of [chars] are found.\n *\n */\npublic fun CharSequence.indexOfAny(chars: CharArray, startIndex: Int = 0, ignoreCase: Boolean = false): Int {\n    if (!ignoreCase && chars.size == 1 && this is String) {\n        val char = chars.single()\n        return nativeIndexOf(char, startIndex)\n    }\n\n    for (index in startIndex.coerceAtLeast(0)..lastIndex) {\n        val charAtIndex = get(index)\n        if (chars.any { it.equals(charAtIndex, ignoreCase) })\n            return index\n    }\n    return -1\n}\n\n/**\n * Finds the index of the last occurrence of any of the specified [chars] in this char sequence,\n * starting from the specified [startIndex] and optionally ignoring the case.\n *\n * @param startIndex The index of character to start searching at. The search proceeds backward toward the beginning of the string.\n * @param ignoreCase `true` to ignore character case when matching a character. By default `false`.\n * @return An index of the last occurrence of matched character from [chars] or -1 if none of [chars] are found.\n *\n */\npublic fun CharSequence.lastIndexOfAny(chars: CharArray, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {\n    if (!ignoreCase && chars.size == 1 && this is String) {\n        val char = chars.single()\n        return nativeLastIndexOf(char, startIndex)\n    }\n\n\n    for (index in startIndex.coerceAtMost(lastIndex) downTo 0) {\n        val charAtIndex = get(index)\n        if (chars.any { it.equals(charAtIndex, ignoreCase) })\n            return index\n    }\n\n    return -1\n}\n\n\nprivate fun CharSequence.indexOf(other: CharSequence, startIndex: Int, endIndex: Int, ignoreCase: Boolean, last: Boolean = false): Int {\n    val indices = if (!last)\n        startIndex.coerceAtLeast(0)..endIndex.coerceAtMost(length)\n    else\n        startIndex.coerceAtMost(lastIndex) downTo endIndex.coerceAtLeast(0)\n\n    if (this is String && other is String) { // smart cast\n        for (index in indices) {\n            if (other.regionMatches(0, this, index, other.length, ignoreCase))\n                return index\n        }\n    } else {\n        for (index in indices) {\n            if (other.regionMatchesImpl(0, this, index, other.length, ignoreCase))\n                return index\n        }\n    }\n    return -1\n}\n\nprivate fun CharSequence.findAnyOf(strings: Collection<String>, startIndex: Int, ignoreCase: Boolean, last: Boolean): Pair<Int, String>? {\n    if (!ignoreCase && strings.size == 1) {\n        val string = strings.single()\n        val index = if (!last) indexOf(string, startIndex) else lastIndexOf(string, startIndex)\n        return if (index < 0) null else index to string\n    }\n\n    val indices = if (!last) startIndex.coerceAtLeast(0)..length else startIndex.coerceAtMost(lastIndex) downTo 0\n\n    if (this is String) {\n        for (index in indices) {\n            val matchingString = strings.firstOrNull { it.regionMatches(0, this, index, it.length, ignoreCase) }\n            if (matchingString != null)\n                return index to matchingString\n        }\n    } else {\n        for (index in indices) {\n            val matchingString = strings.firstOrNull { it.regionMatchesImpl(0, this, index, it.length, ignoreCase) }\n            if (matchingString != null)\n                return index to matchingString\n        }\n    }\n\n    return null\n}\n\n/**\n * Finds the first occurrence of any of the specified [strings] in this char sequence,\n * starting from the specified [startIndex] and optionally ignoring the case.\n *\n * @param ignoreCase `true` to ignore character case when matching a string. By default `false`.\n * @return A pair of an index of the first occurrence of matched string from [strings] and the string matched\n * or `null` if none of [strings] are found.\n *\n * To avoid ambiguous results when strings in [strings] have characters in common, this method proceeds from\n * the beginning to the end of this string, and finds at each position the first element in [strings]\n * that matches this string at that position.\n */\npublic fun CharSequence.findAnyOf(strings: Collection<String>, startIndex: Int = 0, ignoreCase: Boolean = false): Pair<Int, String>? =\n    findAnyOf(strings, startIndex, ignoreCase, last = false)\n\n/**\n * Finds the last occurrence of any of the specified [strings] in this char sequence,\n * starting from the specified [startIndex] and optionally ignoring the case.\n *\n * @param startIndex The index of character to start searching at. The search proceeds backward toward

the beginning of the string.\n * @param ignoreCase `true` to ignore character case when matching a string. By default `false`.\n * @return A pair of an index of the last occurrence of matched string from [strings] and the string matched or `null` if none of [strings] are found.\n *\n * To avoid ambiguous results when strings in [strings] have characters in common, this method proceeds from\n * the end toward the beginning of this string, and finds at each position the first element in [strings]\n * that matches this string at that position.\n */\npublic fun CharSequence.findLastAnyOf(strings: Collection<String>, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Pair<Int, String>? =\n findAnyOf(strings, startIndex, ignoreCase, last = true)\n\n/**\n * Finds the index of the first occurrence of any of the specified [strings] in this char sequence,\n * starting from the specified [startIndex] and optionally ignoring the case.\n *\n * @param ignoreCase `true` to ignore character case when matching a string. By default `false`.\n * @return An index of the first occurrence of matched string from [strings] or -1 if none of [strings] are found.\n *\n * To avoid ambiguous results when strings in [strings] have characters in common, this method proceeds from\n * the beginning to the end of this string, and finds at each position the first element in [strings]\n * that matches this string at that position.\n */\npublic fun CharSequence.indexOfAny(strings: Collection<String>, startIndex: Int = 0, ignoreCase: Boolean = false): Int =\n findAnyOf(strings, startIndex, ignoreCase, last = false)?.first ?: -1\n\n/**\n *
Finds the index of the last occurrence of any of the specified [strings] in this char sequence,\n * starting from the specified [startIndex] and optionally ignoring the case.\n *\n * @param startIndex The index of character to start searching at. The search proceeds backward toward the beginning of the string.\n * @param ignoreCase `true` to ignore character case when matching a string. By default `false`.\n * @return An index of the last occurrence of matched string from [strings] or -1 if none of [strings] are found.\n *\n * To avoid ambiguous results when strings in [strings] have characters in common, this method proceeds from\n * the end toward the beginning of this string, and finds at each position the first element in [strings]\n * that matches this string at that position.\n */\npublic fun CharSequence.lastIndexOfAny(strings: Collection<String>, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int =\n findAnyOf(strings, startIndex, ignoreCase, last = true)?.first ?: -1\n\n// indexOf\n\n/**\n * Returns the index within this string of the first occurrence of the specified character, starting from the specified [startIndex].\n *\n * @param ignoreCase `true` to ignore character case when matching a character. By default `false`.\n * @return An index of the first occurrence of [char] or -1 if none is found.\n */\npublic fun CharSequence.indexOf(char: Char, startIndex: Int = 0, ignoreCase: Boolean = false): Int {\n return if (ignoreCase || this !is String)\n indexOfAny(charArrayOf(char), startIndex, ignoreCase)\n else\n nativeIndexOf(char, startIndex)\n}\n\n/**\n * Returns the index within this char sequence of the first occurrence of the specified [string],\n * starting from the specified [startIndex].\n *\n * @param ignoreCase `true` to ignore character case when matching a string. By default `false`.\n * @return An index of the first occurrence of [string] or `-1` if none is found.\n * @sample samples.text.Strings.indexOf\n */\npublic
fun CharSequence.indexOf(string: String, startIndex: Int = 0, ignoreCase: Boolean = false): Int {\n return if (ignoreCase || this !is String)\n indexOf(string, startIndex, length, ignoreCase)\n else\n nativeIndexOf(string, startIndex)\n}\n\n/**\n * Returns the index within this char sequence of the last occurrence of the specified character,\n * starting from the specified [startIndex].\n *\n * @param startIndex The index of character to start searching at. The search proceeds backward toward the beginning of the string.\n * @param ignoreCase `true` to ignore character case when matching a character. By default `false`.\n * @return An index of the last occurrence of [char] or -1 if none is found.\n */\npublic fun CharSequence.lastIndexOf(char: Char, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {\n return if (ignoreCase || this !is String)\n lastIndexOfAny(charArrayOf(char), startIndex, ignoreCase)\n else\n nativeLastIndexOf(char, startIndex)\n}\n\n/**\n * Returns the index within this char sequence of the last occurrence of the specified [string],\n * starting from the specified [startIndex].\n *\n * @param startIndex The index of character to start searching at. The search proceeds backward toward the beginning of the string.\n * @param ignoreCase `true` to ignore character case when matching a string. By default `false`.\n * @return An index of the last occurrence of [string] or -1 if none is found.\n */\npublic fun CharSequence.lastIndexOf(string: String, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {\n return if (ignoreCase || this !is String)\n indexOf(string, startIndex, 0,

ignoreCase, last = true)\n    else\n        nativeLastIndexOf(string, startIndex)\n}\n\n/**\n * Returns `true` if this char sequence contains the specified [other] sequence of characters as a substring.\n *\n * @param ignoreCase `true` to ignore character case when comparing strings. By default `false`.\n */\n@Suppress(\"INAPPLICABLE_OPERATOR_MODIFIER\")\npublic operator fun CharSequence.contains(other: CharSequence, ignoreCase: Boolean = false): Boolean =\n    if (other is String)\n        indexOf(other, ignoreCase = ignoreCase) >= 0\n    else\n        indexOf(other, 0, length, ignoreCase) >= 0\n\n\n\n/**\n * Returns `true` if this char sequence contains the specified character [char].\n *\n * @param ignoreCase `true` to ignore character case when comparing characters. By default `false`.\n */\n@Suppress(\"INAPPLICABLE_OPERATOR_MODIFIER\")\npublic operator fun CharSequence.contains(char: Char, ignoreCase: Boolean = false): Boolean =\n    indexOf(char, ignoreCase = ignoreCase) >= 0\n\n/**\n * Returns `true` if this char sequence contains at least one match of the specified regular expression [regex].\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun CharSequence.contains(regex: Regex): Boolean = regex.containsMatchIn(this)\n\n\n// rangesDelimitedBy\n\n\nprivate class DelimitedRangesSequence(\n    private val input: CharSequence,\n    private val startIndex: Int,\n    private val limit: Int,\n    private val getNextMatch: CharSequence.(currentIndex: Int) -> Pair<Int, Int>?\n) : Sequence<IntRange> {\n\n    override fun iterator(): Iterator<IntRange> = object : Iterator<IntRange> {\n        var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for continue\n        var currentStartIndex: Int = startIndex.coerceIn(0, input.length)\n        var nextSearchIndex: Int = currentStartIndex\n        var nextItem: IntRange? = null\n        var counter: Int = 0\n\n        private fun calcNext() {\n            if (nextSearchIndex < 0) {\n                nextState = 0\n                nextItem = null\n            } else {\n                if (limit > 0 && ++counter >= limit || nextSearchIndex > input.length) {\n                    nextItem = currentStartIndex..input.lastIndex\n                    nextSearchIndex = -1\n                } else {\n
                    val match = input.getNextMatch(nextSearchIndex)\n                    if (match == null) {\n                        nextItem = currentStartIndex..input.lastIndex\n                        nextSearchIndex = -1\n                    } else {\n                        val (index, length) = match\n                        nextItem = currentStartIndex until index\n                        currentStartIndex = index + length\n                        nextSearchIndex = currentStartIndex + if (length == 0) 1 else 0\n                    }\n                }\n                nextState = 1\n            }\n        }\n\n        override fun next(): IntRange {\n            if (nextState == -1)\n                calcNext()\n            if (nextState == 0)\n                throw NoSuchElementException()\n            val result = nextItem as IntRange\n            // Clean next to avoid keeping reference on yielded instance\n            nextItem = null\n            nextState = -1\n            return result\n
        }\n\n        override fun hasNext(): Boolean {\n            if (nextState == -1)\n                calcNext()\n            return nextState == 1\n        }\n    }\n}\n\n/**\n * Returns a sequence of index ranges of substrings in this char sequence around occurrences of the specified [delimiters].\n *\n * @param delimiters One or more characters to be used as delimiters.\n * @param startIndex The index to start searching delimiters from.\n *  No range having its start value less than [startIndex] is returned.\n *  [startIndex] is coerced to be non-negative and not greater than length of this string.\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\n * @param limit The maximum number of substrings to return. Zero by default means no limit is set.\n */\nprivate fun CharSequence.rangesDelimitedBy(delimiters: CharArray, startIndex: Int = 0, ignoreCase: Boolean = false, limit: Int = 0): Sequence<IntRange> {\n    requireNonNegativeLimit(limit)\n\n
    return DelimitedRangesSequence(this, startIndex, limit, { currentIndex ->\n        indexOfAny(delimiters, currentIndex, ignoreCase = ignoreCase).let { if (it < 0) null else it to 1 }\n    })\n}\n\n\n/**\n * Returns a sequence of index ranges of substrings in this char sequence around occurrences of the specified [delimiters].\n *\n * @param delimiters One or more strings to be used as delimiters.\n * @param startIndex The index to start searching delimiters from.\n *  No range having its start value less than [startIndex] is returned.\n *  [startIndex] is coerced to be non-negative and not greater than length of this string.\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\n * @param limit The maximum number of substrings to return. Zero by default means no limit is set.\n *\n * To avoid ambiguous results when strings in [delimiters] have characters in common, this method proceeds from\n * the beginning to the end

```
 of this string, and finds at each position the first element in [delimiters]\n * that matches this string at that position.\n */\nprivate fun CharSequence.rangesDelimitedBy(delimiters: Array<out String>, startIndex: Int = 0, ignoreCase: Boolean = false, limit: Int = 0): Sequence<IntRange> {\n    requireNonNegativeLimit(limit)\n    val delimitersList = delimiters.asList()\n\n    return DelimitedRangesSequence(this, startIndex, limit, { currentIndex -> findAnyOf(delimitersList, currentIndex, ignoreCase = ignoreCase, last = false)?.let { it.first to it.second.length } })\n\n}\n\ninternal fun requireNonNegativeLimit(limit: Int) =\n    require(limit >= 0) { \"Limit must be non-negative, but was $limit\" }\n\n\n// split\n\n/**\n * Splits this char sequence to a sequence of strings around occurrences of the specified [delimiters].\n *\n * @param delimiters One or more strings to be used as delimiters.\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\n * @param limit The maximum number of substrings to return. Zero by default means no limit is set.\n *\n * To avoid ambiguous results when strings in [delimiters] have characters in common, this method proceeds from\n * the beginning to the end of this string, and finds at each position the first element in [delimiters]\n * that matches this string at that position.\n */\npublic fun CharSequence.splitToSequence(vararg delimiters: String, ignoreCase: Boolean = false, limit: Int = 0): Sequence<String> =\n    rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).map { substring(it) }\n\n/**\n * Splits this char sequence to a list of strings around occurrences of the specified [delimiters].\n *\n * @param delimiters One or more strings to be used as delimiters.\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\n * @param limit The maximum number of substrings to return. Zero by default means no limit is set.\n *\n
 * To avoid ambiguous results when strings in [delimiters] have characters in common, this method proceeds from\n * the beginning to the end of this string, and matches at each position the first element in [delimiters]\n * that is equal to a delimiter in this instance at that position.\n */\npublic fun CharSequence.split(vararg delimiters: String, ignoreCase: Boolean = false, limit: Int = 0): List<String> {\n    if (delimiters.size == 1) {\n        val delimiter = delimiters[0]\n        if (!delimiter.isEmpty()) {\n            return split(delimiter, ignoreCase, limit)\n        }\n    }\n\n    return rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).asIterable().map { substring(it) }\n}\n\n/**\n * Splits this char sequence to a sequence of strings around occurrences of the specified [delimiters].\n *\n * @param delimiters One or more characters to be used as delimiters.\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\n
 * @param limit The maximum number of substrings to return.\n */\npublic fun CharSequence.splitToSequence(vararg delimiters: Char, ignoreCase: Boolean = false, limit: Int = 0): Sequence<String> =\n    rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).map { substring(it) }\n\n/**\n * Splits this char sequence to a list of strings around occurrences of the specified [delimiters].\n *\n * @param delimiters One or more characters to be used as delimiters.\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\n * @param limit The maximum number of substrings to return.\n */\npublic fun CharSequence.split(vararg delimiters: Char, ignoreCase: Boolean = false, limit: Int = 0): List<String> {\n    if (delimiters.size == 1) {\n        return split(delimiters[0].toString(), ignoreCase, limit)\n    }\n\n    return rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).asIterable().map { substring(it) }\n}\n\n/**\n
 * Splits this char sequence to a list of strings around occurrences of the specified [delimiter].\n * This is specialized version of split which receives single non-empty delimiter and offers better performance\n *\n * @param delimiter String used as delimiter\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\n * @param limit The maximum number of substrings to return.\n */\nprivate fun CharSequence.split(delimiter: String, ignoreCase: Boolean, limit: Int): List<String> {\n    requireNonNegativeLimit(limit)\n\n    var currentOffset = 0\n    var nextIndex = indexOf(delimiter, currentOffset, ignoreCase)\n    if (nextIndex == -1 || limit == 1) {\n        return listOf(this.toString())\n    }\n\n    val isLimited = limit > 0\n    val result = ArrayList<String>(if (isLimited) limit.coerceAtMost(10) else 10)\n    do {\n        result.add(substring(currentOffset, nextIndex))\n        currentOffset = nextIndex + delimiter.length\n        //
 Do not search for next occurrence if we're reaching limit\n        if (isLimited && result.size == limit - 1) break\n        nextIndex = indexOf(delimiter, currentOffset, ignoreCase)\n    } while (nextIndex != -1)\n\n
```

result.add(substring(currentOffset, length))\n    return result\n}\n\n/**\n * Splits this char sequence to a list of strings around matches of the given regular expression.\n *\n * @param limit Non-negative value specifying the maximum number of substrings to return.\n * Zero by default means no limit is set.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.split(regex: Regex, limit: Int = 0): List<String> = regex.split(this, limit)\n\n/**\n * Splits this char sequence to a sequence of strings around matches of the given regular expression.\n *\n * @param limit Non-negative value specifying the maximum number of substrings to return.\n * Zero by default means no limit is set.\n * @sample samples.text.Strings.splitToSequence\n */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c
 inline fun CharSequence.splitToSequence(regex: Regex, limit: Int = 0): Sequence<String> = regex.splitToSequence(this, limit)\n\n/**\n * Splits this char sequence to a sequence of lines delimited by any of the following character sequences: CRLF, LF or CR.\n *\n * The lines returned do not include terminating line separators.\n */\npublic fun CharSequence.lineSequence(): Sequence<String> = splitToSequence(\"\\r\\n\", \"\\n\", \"\\r\")\n\n/**\n * Splits this char sequence to a list of lines delimited by any of the following character sequences: CRLF, LF or CR.\n *\n * The lines returned do not include terminating line separators.\n */\npublic fun CharSequence.lines(): List<String> = lineSequence().toList()\n\n/**\n * Returns `true` if the contents of this char sequence are equal to the contents of the specified [other],\n * i.e. both char sequences contain the same number of the same characters in the
 same order.\n *\n * @sample samples.text.Strings.contentEquals\n */\n@SinceKotlin(\"1.5\")\npublic expect infix fun CharSequence?.contentEquals(other: CharSequence?): Boolean\n\n/**\n * Returns `true` if the contents of this char sequence are equal to the contents of the specified [other], optionally ignoring case difference.\n *\n * @param ignoreCase `true` to ignore character case when comparing contents.\n *\n * @sample samples.text.Strings.contentEquals\n */\n@SinceKotlin(\"1.5\")\npublic expect fun CharSequence?.contentEquals(other: CharSequence?, ignoreCase: Boolean): Boolean\n\ninternal fun CharSequence?.contentEqualsIgnoreCaseImpl(other: CharSequence?): Boolean {\n    if (this is String && other is String) {\n        return this.equals(other, ignoreCase = true)\n    }\n\n    if (this === other) return true\n    if (this == null || other == null || this.length != other.length) return false\n\n    for (i in 0 until length) {\n        if (!this[i].equals(other[i], ignoreCase = true))
 {\n            return false\n        }\n    }\n\n    return true\n}\n\ninternal fun CharSequence?.contentEqualsImpl(other: CharSequence?): Boolean {\n    if (this is String && other is String) {\n        return this == other\n    }\n\n    if (this === other) return true\n    if (this == null || other == null || this.length != other.length) return false\n\n    for (i in 0 until length) {\n        if (this[i] != other[i]) {\n            return false\n        }\n    }\n\n    return true\n}\n\n/**\n * Returns `true` if the content of this string is equal to the word \"true\", `false` if it is equal to \"false\",\n * and throws an exception otherwise.\n *\n * There is also a lenient version of the function available on nullable String, [String?.toBoolean].\n * Note that this function is case-sensitive.\n *\n * @sample samples.text.Strings.toBooleanStrict\n */\n@SinceKotlin(\"1.5\")\npublic fun String.toBooleanStrict(): Boolean = when (this) {\n    \"true\" -> true\n    \"false\" -> false\n
    else -> throw IllegalArgumentException(\"The string doesn't represent a boolean value: $this\")\n}\n\n/**\n * Returns `true` if the content of this string is equal to the word \"true\", `false` if it is equal to \"false\",\n * and `null` otherwise.\n *\n * There is also a lenient version of the function available on nullable String, [String?.toBoolean].\n * Note that this function is case-sensitive.\n *\n * @sample samples.text.Strings.toBooleanStrictOrNull\n */\n@SinceKotlin(\"1.5\")\npublic fun String.toBooleanStrictOrNull(): Boolean? = when (this) {\n    \"true\" -> true\n    \"false\" -> false\n    else -> null\n}","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport kotlin.jvm.*\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@JvmInline\npublic
 value class UByteArray\n@PublishedApi\ninternal constructor(@PublishedApi internal val storage: ByteArray) : Collection<UByte> {\n\n    /** Creates a new array of the specified [size], with all elements initialized to zero. */\n

public constructor(size: Int) : this(ByteArray(size))\n\n    /**\n     * Returns the array element at the given [index]. This method can be called using the index operator.\n     *\n     * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n     * where the behavior is unspecified.\n     */\n    public operator fun get(index: Int): UByte = storage[index].toUByte()\n\n    /**\n     * Sets the element at the given [index] to the given [value]. This method can be called using the index operator.\n     *\n     * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n     * where the behavior is unspecified.\n     */\n    public operator fun set(index: Int, value:
UByte) {\n        storage[index] = value.toByte()\n    }\n\n    /** Returns the number of elements in the array. */\n    public override val size: Int get() = storage.size\n\n    /** Creates an iterator over the elements of the array. */\n    public override operator fun iterator(): kotlin.collections.Iterator<UByte> = Iterator(storage)\n\n    @Suppress(\"DEPRECATION_ERROR\")\n    private class Iterator(private val array: ByteArray) : UByteIterator() {\n        private var index = 0\n        override fun hasNext() = index < array.size\n        override fun nextUByte() = if (index < array.size) array[index++].toUByte() else throw NoSuchElementException(index.toString())\n    }\n\n    override fun contains(element: UByte): Boolean {\n        // TODO: Eliminate this check after KT-30016 gets fixed.\n        // Currently JS BE does not generate special bridge method for this method.\n        @Suppress(\"USELESS_CAST\")\n        if ((element as Any?) !is UByte) return false\n\n
return storage.contains(element.toByte())\n    }\n\n    override fun containsAll(elements: Collection<UByte>): Boolean {\n        return (elements as Collection<*>).all { it is UByte && storage.contains(it.toByte()) }\n    }\n\n    override fun isEmpty(): Boolean = this.storage.size == 0\n}\n\n/**\n * Creates a new array of the specified [size], where each element is calculated by calling the specified\n * [init] function.\n *\n * The function [init] is called for each array element sequentially starting from the first one.\n * It should return the value for an array element given its index.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray(size: Int, init: (Int) -> UByte): UByteArray {\n    return UByteArray(ByteArray(size) { index -> init(index).toByte()
})\n}\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ubyteArrayOf(vararg elements: UByte): UByteArray = elements\n","/*\n
* Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport
kotlin.jvm.*\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@JvmInline\npublic value class UIntArray\n@PublishedApi\ninternal constructor(@PublishedApi internal val storage: IntArray) : Collection<UInt> {\n\n    /** Creates a new array of the specified [size], with all elements initialized to zero. */\n    public constructor(size: Int) : this(IntArray(size))\n\n    /**\n     * Returns the array element at the given [index]. This method can be called using the index operator.\n     *\n     * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n     * where the behavior is unspecified.\n     */\n    public operator fun get(index: Int): UInt = storage[index].toUInt()\n\n
    /**\n     * Sets the element at the given [index] to the given [value]. This method can be called using the index operator.\n     *\n     * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n     * where the behavior is unspecified.\n     */\n    public operator fun set(index: Int, value: UInt) {\n
storage[index] = value.toInt()\n    }\n\n    /** Returns the number of elements in the array. */\n    public override val size: Int get() = storage.size\n\n    /** Creates an iterator over the elements of the array. */\n    public override operator fun iterator(): kotlin.collections.Iterator<UInt> = Iterator(storage)\n\n    @Suppress(\"DEPRECATION_ERROR\")\n    private class Iterator(private val array: IntArray) : UIntIterator() {\n
    private var index = 0\n        override fun hasNext() = index < array.size\n        override fun nextUInt() = if (index < array.size) array[index++].toUInt() else throw NoSuchElementException(index.toString())\n
    }\n\n    override fun contains(element: UInt): Boolean {\n        // TODO: Eliminate this check after KT-30016 gets fixed.\n        // Currently JS BE does not generate special bridge method for this method.\n        @Suppress(\"USELESS_CAST\")\n        if ((element as Any?) !is UInt) return false\n\n        return

storage.contains(element.toInt())\n    }\n\n    override fun containsAll(elements: Collection<UInt>): Boolean {\n return (elements as Collection<*>).all { it is UInt && storage.contains(it.toInt()) }\n    }\n\n    override fun isEmpty(): Boolean = this.storage.size == 0\n}\n\n/**\n * Creates a new array of the specified [size], where each element is calculated by calling the specified\n * [init] function.\n *\n * The function [init] is called for each array element sequentially starting from the first one.\n * It should return the value for an array element given its index.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
 inline fun UIntArray(size: Int, init: (Int) -> UInt): UIntArray {\n    return UIntArray(IntArray(size) { index -> init(index).toInt()
})\n}\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun uintArrayOf(vararg elements: UInt): UIntArray = elements\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport kotlin.jvm.*\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@JvmInline\npublic value class ULongArray\n@PublishedApi\ninternal constructor(@PublishedApi internal val storage: LongArray) : Collection<ULong> {\n\n    /** Creates a new array of the specified [size], with all elements initialized to zero. */\n public constructor(size: Int) : this(LongArray(size))\n\n
    /**\n     * Returns the array element at the given [index]. This method can be called using the index operator.\n *\n     * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n     */\n    public operator fun get(index: Int): ULong = storage[index].toULong()\n\n    /**\n     * Sets the element at the given [index] to the given [value]. This method can be called using the index operator.\n     *\n     * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n     * where the behavior is unspecified.\n     */\n    public operator fun set(index: Int, value: ULong) {\n        storage[index] = value.toLong()\n    }\n\n    /** Returns the number of elements in the array. */\n    public override val size: Int get() = storage.size\n\n    /** Creates an iterator over the elements of the array. */\n    public override operator fun iterator(): kotlin.collections.Iterator<ULong> = Iterator(storage)\n\n    @Suppress(\"DEPRECATION_ERROR\")\n    private class Iterator(private val array: LongArray) : ULongIterator() {\n        private var index = 0\n        override fun hasNext() = index < array.size\n        override fun nextULong() = if (index < array.size) array[index++].toULong() else throw NoSuchElementException(index.toString())\n    }\n\n    override fun contains(element: ULong): Boolean {\n        // TODO: Eliminate this check after KT-30016 gets fixed.\n        // Currently JS BE does not generate special bridge method for this method.\n        @Suppress(\"USELESS_CAST\")\n        if ((element as Any?) !is ULong) return false\n\n        return storage.contains(element.toLong())\n    }\n\n    override fun containsAll(elements: Collection<ULong>): Boolean {\n        return (elements as Collection<*>).all { it is ULong && storage.contains(it.toLong()) }\n    }\n\n    override fun isEmpty(): Boolean = this.storage.size == 0\n}\n\n/**\n * Creates a new array of the specified [size], where each element is calculated by calling the specified\n * [init] function.\n *\n * The function [init] is called for each array element sequentially starting from the first one.\n * It should return the value for an array element given its index.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray(size: Int, init: (Int) -> ULong): ULongArray {\n    return ULongArray(LongArray(size) { index -> init(index).toLong()
})\n}\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ulongArrayOf(vararg elements: ULong): ULongArray = elements\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport kotlin.jvm.*\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@JvmInline\npublic value class UShortArray\n@PublishedApi\ninternal constructor(@PublishedApi internal val storage: ShortArray) : Collection<UShort> {\n\n    /** Creates a new array of the specified [size], with all elements initialized to zero. */\n public constructor(size: Int) : this(ShortArray(size))\n\n    /**\n     * Returns the array element at the given [index].

This method can be called using the index operator.\n *\n * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n public operator fun get(index: Int): UShort = storage[index].toUShort()\n\n /**\n * Sets the element at the given [index] to the given [value]. This method can be called using the index operator.\n *\n * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n public operator fun set(index: Int, value: UShort) {\n storage[index] = value.toShort()\n }\n\n /** Returns the number of elements in the array. */\n public override val size: Int get() = storage.size\n\n /** Creates an iterator over the elements of the array. */\n public override operator fun iterator(): kotlin.collections.Iterator<UShort> = Iterator(storage)\n\n @Suppress(\"DEPRECATION_ERROR\")\n private class Iterator(private val array: ShortArray) : UShortIterator() {\n private var index = 0\n override fun hasNext() = index < array.size\n override fun nextUShort() = if (index < array.size) array[index++].toUShort() else throw NoSuchElementException(index.toString())\n }\n\n override fun contains(element: UShort): Boolean {\n // TODO: Eliminate this check after KT-30016 gets fixed.\n // Currently JS BE does not generate special bridge method for this method.\n @Suppress(\"USELESS_CAST\")\n if ((element as Any?) !is UShort) return false\n\n return storage.contains(element.toShort())\n }\n\n override fun containsAll(elements: Collection<UShort>): Boolean {\n return (elements as Collection<*>).all { it is UShort && storage.contains(it.toShort()) }\n }\n\n override fun isEmpty(): Boolean = this.storage.size == 0\n}\n\n/**\n * Creates a new array of the specified [size], where each element is calculated by calling the specified\n * [init] function.\n *\n * The function [init] is called for each array element sequentially starting from the first one.\n * It should return the value for an array element given its index.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray(size: Int, init: (Int) -> UShort): UShortArray {\n return UShortArray(ShortArray(size) { index -> init(index).toShort()\n})\n}\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ushortArrayOf(vararg elements: UShort): UShortArray = elements\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"UArraysKt\")\n@file:kotlin.jvm.JvmPackageName(\"kotlin.collections.unsigned\")\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.component1(): UInt {\n return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.component1(): ULong {\n return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.component1(): UByte {\n return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.component1(): UShort {\n return get(0)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the

behavior is unspecified.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.component2(): UInt {\n    return get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.component2(): ULong {\n    return get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this
 array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.component2(): UByte {\n    return get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.component2(): UShort {\n    return get(1)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.component3(): UInt {\n
    return get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.component3(): ULong {\n    return get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.component3(): UByte {\n    return get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
 inline operator fun UShortArray.component3(): UShort {\n    return get(2)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.component4(): UInt {\n    return get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.component4(): ULong {\n    return get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n
 * where the behavior is unspecified.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.component4(): UByte {\n    return get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.component4(): UShort {\n    return get(3)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the

behavior is unspecified.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.component5(): UInt {\n    return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.component5(): ULong {\n    return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.component5(): UByte {\n    return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.component5():
UShort {\n    return get(4)\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect fun UIntArray.elementAt(index: Int): UInt\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect fun ULongArray.elementAt(index: Int): ULong\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect fun UByteArray.elementAt(index: Int): UByte\n\n/**\n
* Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect fun UShortArray.elementAt(index: Int): UShort\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UInt): UInt {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> ULong): ULong {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UByte): UByte {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UShort): UShort {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.elementAtOrNull(index: Int): UInt? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.elementAtOrNull(index: Int): ULong? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.elementAtOrNull(index: Int): UByte? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.elementAtOrNull(index: Int): UShort? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.find(predicate: (UInt) -> Boolean): UInt? {\n    return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.find(predicate: (ULong) -> Boolean): ULong? {\n    return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.find(predicate: (UByte) -> Boolean): UByte? {\n    return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element\n was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.find(predicate: (UShort) -> Boolean): UShort? {\n    return firstOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.findLast(predicate: (UInt) -> Boolean): UInt? {\n    return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.findLast(predicate: (ULong) -> Boolean): ULong? {\n    return\n lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.findLast(predicate: (UByte) -> Boolean): UByte? {\n    return lastOrNull(predicate)\n}\n\n/**\n *

Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.findLast(predicate: (UShort) -> Boolean): UShort? {\n    return lastOrNull(predicate)\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.first(): UInt {\n    return storage.first().toUInt()\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.first(): ULong {\n    return storage.first().toULong()\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.first(): UByte {\n    return storage.first().toUByte()\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.first(): UShort {\n    return storage.first().toUShort()\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.first(predicate: (UInt) -> Boolean): UInt {\n    for (element in this) if (predicate(element)) return element\n    throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.first(predicate: (ULong) -> Boolean): ULong {\n    for (element in this) if (predicate(element)) return element\n    throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.first(predicate: (UByte) -> Boolean): UByte {\n    for (element in this) if (predicate(element)) return element\n    throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.first(predicate: (UShort) -> Boolean): UShort {\n    for (element in this) if (predicate(element)) return element\n    throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.firstOrNull(): UInt? {\n    return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.firstOrNull(): ULong? {\n    return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.firstOrNull(): UByte? {\n    return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.firstOrNull(): UShort? {\n    return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.firstOrNull(predicate: (UInt) -> Boolean): UInt? {\n    for (element in this) if (predicate(element)) return element\n    return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element

was not
found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.firstOrNull(predicate: (ULong) -> Boolean): ULong? {\n    for (element in this) if (predicate(element)) return element\n    return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.firstOrNull(predicate: (UByte) -> Boolean): UByte? {\n    for (element in this) if (predicate(element)) return element\n    return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.firstOrNull(predicate: (UShort) -> Boolean): UShort? {\n    for (element in this) if (predicate(element)) return element\n    return null\n}\n\n/**\n * Returns
an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.getOrElse(index: Int, defaultValue: (Int) -> UInt): UInt {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.getOrElse(index: Int, defaultValue: (Int) -> ULong): ULong {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UByteArray.getOrElse(index: Int, defaultValue: (Int) -> UByte): UByte {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.getOrElse(index: Int, defaultValue: (Int) -> UShort): UShort {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.getOrNull(index: Int): UInt? {\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n
* Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.getOrNull(index: Int): ULong? {\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.getOrNull(index: Int): UByte? {\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.getOrNull(index:
Int): UShort? {\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.indexOf(element: UInt): Int {\n    return storage.indexOf(element.toInt())\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

```
ULongArray.indexOf(element: ULong): Int {\n    return storage.indexOf(element.toLong())\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.indexOf(element: UByte): Int {\n    return storage.indexOf(element.toByte())\n}\n\n/**\n * Returns first index of [element], or -1 if the\n array does not contain element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.indexOf(element: UShort): Int {\n    return storage.indexOf(element.toShort())\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.indexOfFirst(predicate: (UInt) -> Boolean): Int {\n    return storage.indexOfFirst { predicate(it.toUInt()) }\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.indexOfFirst(predicate: (ULong) -> Boolean): Int {\n    return storage.indexOfFirst { predicate(it.toULong()) }\n}\n\n/**\n * Returns index of the first element matching the\n given [predicate], or -1 if the array does not contain such element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.indexOfFirst(predicate: (UByte) -> Boolean): Int {\n    return storage.indexOfFirst { predicate(it.toUByte()) }\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.indexOfFirst(predicate: (UShort) -> Boolean): Int {\n    return storage.indexOfFirst { predicate(it.toUShort()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.indexOfLast(predicate: (UInt) -> Boolean): Int {\n    return storage.indexOfLast { predicate(it.toUInt()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.indexOfLast(predicate: (ULong) -> Boolean): Int {\n    return storage.indexOfLast { predicate(it.toULong()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.indexOfLast(predicate: (UByte) -> Boolean): Int {\n    return storage.indexOfLast { predicate(it.toUByte()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.indexOfLast(predicate: (UShort) ->\n Boolean): Int {\n    return storage.indexOfLast { predicate(it.toUShort()) }\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.last(): UInt {\n    return storage.last().toUInt()\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.last(): ULong {\n    return storage.last().toULong()\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
```

inline fun UByteArray.last(): UByte {\n    return storage.last().toUByte()\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.last(): UShort {\n    return storage.last().toUShort()\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.last(predicate: (UInt) -> Boolean): UInt {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n
 * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.last(predicate: (ULong) -> Boolean): ULong {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.last(predicate: (UByte) -> Boolean): UByte {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.last(predicate: (UShort) -> Boolean): UShort {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.lastIndexOf(element: UInt):
 Int {\n    return storage.lastIndexOf(element.toInt())\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.lastIndexOf(element: ULong): Int {\n    return storage.lastIndexOf(element.toLong())\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.lastIndexOf(element: UByte): Int {\n    return storage.lastIndexOf(element.toByte())\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.lastIndexOf(element: UShort): Int {\n    return storage.lastIndexOf(element.toShort())\n}\n\n/**\n * Returns the last element, or `null` if the array is
 empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.lastOrNull(): UInt? {\n    return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.lastOrNull(): ULong? {\n

return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n *\n * @sample samples.collections.Collections.Elements.last\n*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.lastOrNull(): UByte? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n *\n * @sample samples.collections.Collections.Elements.last\n*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic
fun UShortArray.lastOrNull(): UShort? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.lastOrNull(predicate: (UInt) -> Boolean): UInt? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.lastOrNull(predicate: (ULong) -> Boolean): ULong? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n
if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.lastOrNull(predicate: (UByte) -> Boolean): UByte? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.lastOrNull(predicate: (UShort) -> Boolean): UShort? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n
if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.random(): UInt {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.random(): ULong {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.random(): UByte {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException
if this array is empty.\n*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.random(): UShort {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.random(random: Random): UInt {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.random(random: Random):

ULong {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.random(random: Random): UByte {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.random(random: Random): UShort {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.randomOrNull(): UInt? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.randomOrNull(): ULong? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.randomOrNull(): UByte? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.randomOrNull(): UShort? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun UIntArray.randomOrNull(random: Random): UInt? {\n if (isEmpty())\n return null\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun ULongArray.randomOrNull(random: Random): ULong? {\n if (isEmpty())\n return null\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun UByteArray.randomOrNull(random: Random): UByte? {\n if (isEmpty())\n return null\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun UShortArray.randomOrNull(random: Random): UShort? {\n if (isEmpty())\n return null\n return get(random.nextInt(size))\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.single(): UInt {\n return storage.single().toUInt()\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.single(): ULong {\n return storage.single().toULong()\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

UByteArray.single(): UByte {\n    return storage.single().toUByte()\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.single(): UShort {\n    return storage.single().toUShort()\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.single(predicate: (UInt) -> Boolean): UInt {\n    var single: UInt? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n            single = element\n            found = true\n        }\n    }\n    if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n    @Suppress(\"UNCHECKED_CAST\")\n    return single as UInt\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.single(predicate: (ULong) -> Boolean): ULong {\n    var single: ULong? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n            single = element\n            found = true\n        }\n    }\n    if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n    @Suppress(\"UNCHECKED_CAST\")\n    return single as ULong\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.single(predicate: (UByte) -> Boolean): UByte {\n    var single: UByte? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n            single = element\n            found = true\n        }\n    }\n    if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n    @Suppress(\"UNCHECKED_CAST\")\n    return single as UByte\n}\n\n/**\n * Returns the single element matching\n the given [predicate], or throws exception if there is no or more than one matching element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.single(predicate: (UShort) -> Boolean): UShort {\n    var single: UShort? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n            single = element\n            found = true\n        }\n    }\n    if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n    @Suppress(\"UNCHECKED_CAST\")\n    return single as UShort\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.singleOrNull(): UInt? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element,\n or `null` if the array is empty or has more than one element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.singleOrNull(): ULong? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.singleOrNull(): UByte? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.singleOrNull(): UShort? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.singleOrNull(predicate:

(UInt) -> Boolean): UInt? {\n var single: UInt? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.singleOrNull(predicate: (ULong) -> Boolean): ULong? {\n var single: ULong? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.singleOrNull(predicate: (UByte) -> Boolean): UByte? {\n var single: UByte? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.singleOrNull(predicate: (UShort) -> Boolean): UShort? {\n var single: UShort? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.drop(n: Int): List<UInt> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.drop(n: Int): List<ULong> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.drop(n: Int): List<UByte> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.drop(n: Int): List<UShort> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.dropLast(n: Int): List<UInt> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.dropLast(n: Int):

```
List<ULong> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.dropLast(n: Int): List<UByte> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.dropLast(n: Int): List<UShort> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.dropLastWhile(predicate: (UInt) -> Boolean): List<UInt> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n            return take(index + 1)\n        }\n    }\n    return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.dropLastWhile(predicate: (ULong) -> Boolean): List<ULong> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n            return take(index + 1)\n        }\n    }\n    return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.dropLastWhile(predicate: (UByte) -> Boolean): List<UByte> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n            return take(index + 1)\n        }\n    }\n    return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.dropLastWhile(predicate: (UShort) -> Boolean): List<UShort> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n            return take(index + 1)\n        }\n    }\n    return emptyList()\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.dropWhile(predicate: (UInt)\n -> Boolean): List<UInt> {\n    var yielding = false\n    val list = ArrayList<UInt>()\n    for (item in this)\n        if (yielding)\n            list.add(item)\n        else if (!predicate(item)) {\n            list.add(item)\n            yielding = true\n        }\n    return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.dropWhile(predicate: (ULong) -> Boolean): List<ULong> {\n    var yielding = false\n    val list = ArrayList<ULong>()\n    for (item in this)\n        if (yielding)\n            list.add(item)\n        else if (!predicate(item)) {\n            list.add(item)\n            yielding = true\n        }\n    return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.dropWhile(predicate: (UByte) -> Boolean): List<UByte> {\n    var yielding = false\n    val list = ArrayList<UByte>()\n    for (item in this)\n        if (yielding)\n            list.add(item)\n        else if (!predicate(item))
```

{\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.dropWhile(predicate: (UShort) -> Boolean): List<UShort> {\n var yielding = false\n val list = ArrayList<UShort>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.filter(predicate: (UInt) -> Boolean): List<UInt> {\n return filterTo(ArrayList<UInt>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.filter(predicate: (ULong) -> Boolean): List<ULong> {\n return filterTo(ArrayList<ULong>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.filter(predicate: (UByte) -> Boolean): List<UByte> {\n return filterTo(ArrayList<UByte>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.filter(predicate: (UShort) -> Boolean): List<UShort> {\n return filterTo(ArrayList<UShort>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.filterIndexed(predicate: (index: Int, UInt) -> Boolean): List<UInt> {\n return filterIndexedTo(ArrayList<UInt>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.filterIndexed(predicate: (index: Int, ULong) -> Boolean): List<ULong> {\n return filterIndexedTo(ArrayList<ULong>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.filterIndexed(predicate: (index: Int, UByte) -> Boolean): List<UByte> {\n return filterIndexedTo(ArrayList<UByte>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.filterIndexed(predicate: (index: Int, UShort) -> Boolean): List<UShort> {\n return filterIndexedTo(ArrayList<UShort>(), predicate)\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the

index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UInt>> UIntArray.filterIndexedTo(destination: C, predicate: (index: Int, UInt) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in ULong>> ULongArray.filterIndexedTo(destination: C, predicate: (index: Int, ULong) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UByte>> UByteArray.filterIndexedTo(destination: C, predicate: (index: Int, UByte) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UShort>> UShortArray.filterIndexedTo(destination: C, predicate: (index: Int, UShort) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return destination\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.filterNot(predicate: (UInt) -> Boolean): List<UInt> {\n return filterNotTo(ArrayList<UInt>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.filterNot(predicate: (ULong) -> Boolean): List<ULong> {\n return filterNotTo(ArrayList<ULong>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.filterNot(predicate: (UByte) -> Boolean): List<UByte> {\n return filterNotTo(ArrayList<UByte>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.filterNot(predicate: (UShort) -> Boolean): List<UShort> {\n return filterNotTo(ArrayList<UShort>(), predicate)\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UInt>> UIntArray.filterNotTo(destination: C, predicate: (UInt) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all

elements not matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in ULong>> ULongArray.filterNotTo(destination: C, predicate: (ULong) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UByte>> UByteArray.filterNotTo(destination: C, predicate: (UByte) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UShort>> UShortArray.filterNotTo(destination: C, predicate: (UShort) -> Boolean): C {\n for (element in this) if (!predicate(element))
destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UInt>> UIntArray.filterTo(destination: C, predicate: (UInt) -> Boolean): C {\n for (element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in ULong>> ULongArray.filterTo(destination: C, predicate: (ULong) -> Boolean): C {\n for (element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UByte>> UByteArray.filterTo(destination: C, predicate: (UByte) -> Boolean): C {\n for (element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UShort>> UShortArray.filterTo(destination: C, predicate: (UShort) -> Boolean): C {\n for (element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Returns a list containing elements
at indices in the specified [indices] range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.slice(indices: IntRange): List<UInt> {\n if (indices.isEmpty()) return listOf()\n return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.slice(indices: IntRange): List<ULong> {\n if (indices.isEmpty()) return listOf()\n return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.slice(indices: IntRange): List<UByte> {\n if (indices.isEmpty()) return listOf()\n return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices
in the specified [indices] range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.slice(indices: IntRange): List<UShort> {\n if (indices.isEmpty()) return listOf()\n return

copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.slice(indices: Iterable<Int>): List<UInt> {\n val size = indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list = ArrayList<UInt>(size)\n for (index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.slice(indices: Iterable<Int>): List<ULong> {\n val size = indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list = ArrayList<ULong>(size)\n for (index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.slice(indices: Iterable<Int>): List<UByte> {\n val size = indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list = ArrayList<UByte>(size)\n for (index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.slice(indices: Iterable<Int>): List<UShort> {\n val size = indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list = ArrayList<UShort>(size)\n for (index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sliceArray(indices: Collection<Int>): UIntArray {\n return UIntArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sliceArray(indices: Collection<Int>): ULongArray {\n return ULongArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sliceArray(indices: Collection<Int>): UByteArray {\n return UByteArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sliceArray(indices: Collection<Int>): UShortArray {\n return UShortArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sliceArray(indices: IntRange): UIntArray {\n return UIntArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sliceArray(indices: IntRange): ULongArray {\n return ULongArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sliceArray(indices: IntRange): UByteArray {\n return UByteArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sliceArray(indices: IntRange): UShortArray {\n return UShortArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.take(n: Int): List<UInt> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >= size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<UInt>(n)\n for (item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n

```
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic
 fun ULongArray.take(n: Int): List<ULong> {\n    require(n >= 0) { \"Requested element count $n is less than
zero.\" }\n    if (n == 0) return emptyList()\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[0])\n
var count = 0\n    val list = ArrayList<ULong>(n)\n    for (item in this) {\n        list.add(item)\n        if (++count ==
n)\n            break\n    }\n    return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.take(n: Int): List<UByte> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >=
size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<UByte>(n)\n    for
(item in this) {\n        list.add(item)\n
        if (++count == n)\n            break\n    }\n    return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n
* \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.take(n: Int): List<UShort> {\n
  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >=
size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<UShort>(n)\n    for
(item in this) {\n        list.add(item)\n        if (++count == n)\n            break\n    }\n    return list\n}\n\n/**\n * Returns
a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.takeLast(n:
 Int): List<UInt> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return
emptyList()\n    val size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list
= ArrayList<UInt>(n)\n    for (index in size - n until size)\n        list.add(this[index])\n    return list\n}\n\n/**\n *
Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n *
@sample samples.collections.Collections.Transformations.take\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.takeLast(n: Int): List<ULong>
{\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val
size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list =
ArrayList<ULong>(n)\n    for (index in size - n until size)\n        list.add(this[index])\n
  return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if
[n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.takeLast(n: Int): List<UByte>
{\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val
size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list =
ArrayList<UByte>(n)\n    for (index in size - n until size)\n        list.add(this[index])\n    return list\n}\n\n/**\n *
Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n *
@sample samples.collections.Collections.Transformations.take\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.takeLast(n: Int): List<UShort>
{\n    require(n >= 0) { \"Requested element
 count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val size = size\n    if (n >= size) return toList()\n
  if (n == 1) return listOf(this[size - 1])\n    val list = ArrayList<UShort>(n)\n    for (index in size - n until size)\n
list.add(this[index])\n    return list\n}\n\n/**\n * Returns a list containing last elements satisfying the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.takeLastWhile(predicate: (UInt) -> Boolean): List<UInt> {\n    for (index in lastIndex downTo 0) {\n
if (!predicate(this[index])) {\n            return drop(index + 1)\n        }\n    }\n    return toList()\n}\n\n/**\n * Returns a
list containing last elements satisfying the given [predicate].\n * \n * @sample
```

samples.collections.Collections.Transformations.take\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.takeLastWhile(predicate: (ULong) -> Boolean): List<ULong> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.takeLastWhile(predicate: (UByte) -> Boolean): List<UByte> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.takeLastWhile(predicate: (UShort) -> Boolean): List<UShort> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.takeWhile(predicate: (UInt) -> Boolean): List<UInt> {\n val list = ArrayList<UInt>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.takeWhile(predicate: (ULong) -> Boolean): List<ULong> {\n val list = ArrayList<ULong>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.takeWhile(predicate: (UByte) -> Boolean): List<UByte> {\n val list = ArrayList<UByte>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.takeWhile(predicate:
(UShort) -> Boolean): List<UShort> {\n val list = ArrayList<UShort>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Reverses elements in the array in-place.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reverse(): Unit {\n storage.reverse()\n}\n\n/**\n * Reverses elements in the array in-place.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reverse(): Unit {\n storage.reverse()\n}\n\n/**\n * Reverses elements in the array in-place.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reverse(): Unit {\n storage.reverse()\n}\n\n/**\n * Reverses elements in the array in-place.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reverse(): Unit {\n storage.reverse()\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n storage.reverse(fromIndex,

toIndex)\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n storage.reverse(fromIndex, toIndex)\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n storage.reverse(fromIndex, toIndex)\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n storage.reverse(fromIndex, toIndex)\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.reversed(): List<UInt> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n list.reverse()\n return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.reversed(): List<ULong> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n list.reverse()\n return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.reversed(): List<UByte> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n list.reverse()\n return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.reversed(): List<UShort> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n list.reverse()\n return list\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reversedArray(): UIntArray {\n return UIntArray(storage.reversedArray())\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reversedArray(): ULongArray {\n return ULongArray(storage.reversedArray())\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reversedArray(): UByteArray {\n return UByteArray(storage.reversedArray())\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reversedArray(): UShortArray {\n return UShortArray(storage.reversedArray())\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.shuffle(): Unit {\n shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.shuffle(): Unit {\n shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.shuffle(): Unit {\n shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.shuffle(): Unit {\n

shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.shuffle(random: Random): Unit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] = this[j]\n this[j] = copy\n }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.shuffle(random: Random): Unit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] = this[j]\n this[j] = copy\n }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.shuffle(random: Random): Unit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] = this[j]\n this[j] = copy\n }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.shuffle(random: Random): Unit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] = this[j]\n this[j] = copy\n }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sorted(): List<UInt> {\n return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sorted(): List<ULong> {\n return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sorted(): List<UByte> {\n return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sorted(): List<UShort> {\n return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortedArray(): UIntArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortedArray(): ULongArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortedArray(): UByteArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortedArray(): UShortArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortedArrayDescending(): UIntArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortedArrayDescending(): ULongArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortedArrayDescending(): UByteArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortedArrayDescending(): UShortArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns a list of all elements sorted
descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortedDescending(): List<UInt> {\n return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortedDescending(): List<ULong> {\n return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortedDescending(): List<UByte> {\n return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortedDescending(): List<UShort> {\n return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns an array of type [ByteArray], which is a view of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.asByteArray(): ByteArray {\n return storage\n}\n\n/**\n * Returns an array of type [IntArray], which is a view of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.asIntArray(): IntArray {\n return storage\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect fun UIntArray.asList(): List<UInt>\n\n/**\n * Returns a [List] that wraps the original array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect fun ULongArray.asList(): List<ULong>\n\n/**\n * Returns a [List] that wraps the original array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect fun UByteArray.asList(): List<UByte>\n\n/**\n * Returns a [List] that wraps the original array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect fun UShortArray.asList(): List<UShort>\n\n/**\n * Returns an array of type [LongArray], which is a view of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.asLongArray(): LongArray {\n    return storage\n}\n\n/**\n * Returns an array of type [ShortArray], which is a view of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.asShortArray(): ShortArray {\n    return storage\n}\n\n/**\n * Returns an array of type [UByteArray], which is a view of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.asUByteArray(): UByteArray {\n    return UByteArray(this)\n}\n\n/**\n * Returns an array of type [UIntArray], which is a view of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.asUIntArray(): UIntArray {\n    return UIntArray(this)\n}\n\n/**\n * Returns an array of type [ULongArray], which is a view of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.asULongArray(): ULongArray {\n    return ULongArray(this)\n}\n\n/**\n * Returns an array of type [UShortArray], which is a view of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.asUShortArray(): UShortArray {\n    return UShortArray(this)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally*\n * equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.3\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\n@ExperimentalUnsignedTypes\npublic infix fun UIntArray.contentEquals(other: UIntArray): Boolean {\n    return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.3\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\n@ExperimentalUnsignedTypes\npublic infix fun ULongArray.contentEquals(other: ULongArray): Boolean {\n    return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.3\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\n@ExperimentalUnsignedTypes\npublic infix fun UByteArray.contentEquals(other: UByteArray): Boolean {\n    return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.3\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\n@ExperimentalUnsignedTypes\npublic infix fun UShortArray.contentEquals(other: UShortArray): Boolean {\n    return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic infix fun UIntArray?.contentEquals(other: UIntArray?): Boolean {\n    return this?.storage.contentEquals(other?.storage)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic infix fun ULongArray?.contentEquals(other: ULongArray?): Boolean {\n    return this?.storage.contentEquals(other?.storage)\n}\n\n/**\n * Returns `true` if the

two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic infix fun UByteArray?.contentEquals(other: UByteArray?): Boolean {\n return this?.storage.contentEquals(other?.storage)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic infix fun UShortArray?.contentEquals(other: UShortArray?): Boolean {\n return this?.storage.contentEquals(other?.storage)\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.3\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.contentHashCode(): Int {\n return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.3\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.contentHashCode(): Int {\n return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.3\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.contentHashCode(): Int {\n return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.3\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.contentHashCode(): Int {\n return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray?.contentHashCode(): Int {\n return this?.storage.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray?.contentHashCode(): Int {\n return this?.storage.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray?.contentHashCode(): Int {\n return this?.storage.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray?.contentHashCode(): Int {\n return this?.storage.contentHashCode()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.3\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.contentToString(): String {\n return this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.3\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.contentToString(): String {\n return this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.3\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.contentToString(): String {\n return this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is

[List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.3\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.contentToString(): String {\n return this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray?.contentToString(): String {\n return this?.joinToString(\", \", \"[\", \"]\") ?: \"null\"\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray?.contentToString(): String {\n return this?.joinToString(\", \", \"[\", \"]\") ?: \"null\"\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray?.contentToString(): String {\n return this?.joinToString(\", \", \"[\", \"]\") ?: \"null\"\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray?.contentToString(): String {\n return this?.joinToString(\", \", \"[\", \"]\") ?: \"null\"\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.copyInto(destination: UIntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): UIntArray {\n storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.copyInto(destination: ULongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ULongArray {\n storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the

[destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.copyInto(destination: UByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): UByteArray {\n    storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.copyInto(destination: UShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): UShortArray {\n    storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.copyOf(): UIntArray {\n    return UIntArray(storage.copyOf())\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.copyOf(): ULongArray {\n    return ULongArray(storage.copyOf())\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.copyOf(): UByteArray {\n    return UByteArray(storage.copyOf())\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.copyOf(): UShortArray {\n    return UShortArray(storage.copyOf())\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.copyOf(newSize: Int): UIntArray {\n    return UIntArray(storage.copyOf(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.copyOf(newSize: Int): ULongArray {\n    return ULongArray(storage.copyOf(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either

truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater
than the size of the original array, the extra elements in the copy array are filled with zero values.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.copyOf(newSize: Int): UByteArray {\n    return UByteArray(storage.copyOf(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.copyOf(newSize: Int): UShortArray {\n    return UShortArray(storage.copyOf(newSize))\n}\n\n/**\n * Returns a new array which is a copy of the specified
range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.copyOfRange(fromIndex: Int, toIndex: Int): UIntArray {\n    return UIntArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if
[fromIndex] is greater than [toIndex].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.copyOfRange(fromIndex: Int, toIndex: Int): ULongArray {\n    return ULongArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.copyOfRange(fromIndex: Int, toIndex: Int): UByteArray {\n    return UByteArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the
specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.copyOfRange(fromIndex: Int, toIndex: Int): UShortArray {\n    return UShortArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this
array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.fill(element: UInt, fromIndex: Int = 0, toIndex: Int = size): Unit {\n    storage.fill(element.toInt(), fromIndex, toIndex)\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to

fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.fill(element: ULong, fromIndex: Int = 0, toIndex: Int = size): Unit {\n storage.fill(element.toLong(), fromIndex, toIndex)\n}\n\n/**\n * Fills this array or its subrange
with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.fill(element: UByte, fromIndex: Int = 0, toIndex: Int = size): Unit {\n storage.fill(element.toByte(), fromIndex, toIndex)\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the
size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.fill(element: UShort, fromIndex: Int = 0, toIndex: Int = size): Unit {\n storage.fill(element.toShort(), fromIndex, toIndex)\n}\n\n/**\n * Returns the range of valid indices for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline val UIntArray.indices: IntRange\n get() = storage.indices\n\n/**\n * Returns the range of valid indices for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline val ULongArray.indices: IntRange\n get() = storage.indices\n\n/**\n * Returns the range of valid indices for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline val UByteArray.indices: IntRange\n get() = storage.indices\n\n/**\n * Returns the range of valid indices for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic
inline val UShortArray.indices: IntRange\n get() = storage.indices\n\n/**\n * Returns the last valid index for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline val UIntArray.lastIndex: Int\n get() = storage.lastIndex\n\n/**\n * Returns the last valid index for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline val ULongArray.lastIndex: Int\n get() = storage.lastIndex\n\n/**\n * Returns the last valid index for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline val UByteArray.lastIndex: Int\n get() = storage.lastIndex\n\n/**\n * Returns the last valid index for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline val UShortArray.lastIndex: Int\n get() = storage.lastIndex\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline operator fun UIntArray.plus(element: UInt): UIntArray {\n return UIntArray(storage + element.toInt())\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.plus(element: ULong): ULongArray {\n return ULongArray(storage + element.toLong())\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.plus(element: UByte): UByteArray {\n return UByteArray(storage + element.toByte())\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.plus(element:

UShort): UShortArray {\n    return UShortArray(storage + element.toShort())\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic operator fun UIntArray.plus(elements: Collection<UInt>): UIntArray {\n    var index = size\n    val result = storage.copyOf(size + elements.size)\n    for (element in elements) result[index++] = element.toInt()\n    return UIntArray(result)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic operator fun ULongArray.plus(elements: Collection<ULong>): ULongArray {\n    var index = size\n    val result = storage.copyOf(size + elements.size)\n    for (element in elements) result[index++] = element.toLong()\n    return ULongArray(result)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic operator fun UByteArray.plus(elements: Collection<UByte>): UByteArray {\n    var index = size\n    val result = storage.copyOf(size + elements.size)\n    for (element in elements) result[index++] = element.toByte()\n    return UByteArray(result)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic operator fun UShortArray.plus(elements: Collection<UShort>): UShortArray {\n    var index = size\n    val result = storage.copyOf(size + elements.size)\n    for (element in elements) result[index++] = element.toShort()\n    return UShortArray(result)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.plus(elements: UIntArray): UIntArray {\n    return UIntArray(storage + elements.storage)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.plus(elements: ULongArray): ULongArray {\n    return ULongArray(storage + elements.storage)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.plus(elements: UByteArray): UByteArray {\n    return UByteArray(storage + elements.storage)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.plus(elements: UShortArray): UShortArray {\n    return UShortArray(storage + elements.storage)\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sort(): Unit {\n    if (size > 1) sortArray(this, 0, size)\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sort(): Unit {\n    if (size > 1) sortArray(this, 0, size)\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sort(): Unit {\n    if (size > 1) sortArray(this, 0, size)\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sort(): Unit {\n    if (size > 1) sortArray(this, 0, size)\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sort(fromIndex: Int = 0, toIndex:

Int = size): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    sortArray(this, fromIndex, toIndex)\n}\n\n/**\n * Sorts a range in the array
 in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    sortArray(this, fromIndex, toIndex)\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than
 zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    sortArray(this, fromIndex, toIndex)\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic
 fun UShortArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    sortArray(this, fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n    sort(fromIndex, toIndex)\n    reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The elements are sorted descending according to their
 natural sort order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n    sort(fromIndex, toIndex)\n    reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException
 if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n    sort(fromIndex, toIndex)\n    reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *

@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortDescending(fromIndex:
Int, toIndex: Int): Unit {\n    sort(fromIndex, toIndex)\n    reverse(fromIndex, toIndex)\n}\n\n/**\n * Returns an
array of type [ByteArray], which is a copy of
this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.toByteArray(): ByteArray {\n    return storage.copyOf()\n}\n\n/**\n * Returns an array of type
[IntArray], which is a copy of this array where each element is a signed reinterpretation\n * of the corresponding
element of this array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.toIntArray(): IntArray {\n    return storage.copyOf()\n}\n\n/**\n * Returns an array of type [LongArray],
which is a copy of this array where each element is a signed reinterpretation\n * of the corresponding element of this
array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.toLongArray(): LongArray {\n    return storage.copyOf()\n}\n\n/**\n * Returns an array
of type [ShortArray], which is a copy of this array where each element is a signed reinterpretation\n * of the
corresponding element of this array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.toShortArray(): ShortArray {\n    return storage.copyOf()\n}\n\n/**\n * Returns a *typed* object array
containing all of the elements of this primitive array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.toTypedArray(): Array<UInt>
{\n    return Array(size) { index -> this[index] }\n}\n\n/**\n * Returns a *typed* object array containing all of the
elements of this primitive array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.toTypedArray(): Array<ULong> {\n    return Array(size) { index -> this[index] }\n}\n\n/**\n *
Returns a *typed* object array containing all of the elements of this primitive array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic
fun UByteArray.toTypedArray(): Array<UByte> {\n    return Array(size) { index -> this[index] }\n}\n\n/**\n *
Returns a *typed* object array containing all of the elements of this primitive array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.toTypedArray():
Array<UShort> {\n    return Array(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of UByte containing
all of the elements of this generic array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun
Array<out UByte>.toUByteArray(): UByteArray {\n    return UByteArray(size) { index -> this[index] }\n}\n\n/**\n
* Returns an array of type [UByteArray], which is a copy of this array where each element is an unsigned
reinterpretation\n * of the corresponding element of this array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.toUByteArray(): UByteArray {\n    return UByteArray(this.copyOf())\n}\n\n/**\n
* Returns an array of UInt containing all of the elements of this generic array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Array<out UInt>.toUIntArray(): UIntArray
{\n    return UIntArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of type [UIntArray], which is a
copy of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this
array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.toUIntArray(): UIntArray {\n    return UIntArray(this.copyOf())\n}\n\n/**\n * Returns an array of ULong
containing all of the elements of this generic array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Array<out ULong>.toULongArray():
ULongArray {\n    return ULongArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of type
[ULongArray], which is a copy of this array where each element is an unsigned reinterpretation\n
* of the corresponding element of this array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.toULongArray(): ULongArray {\n    return ULongArray(this.copyOf())\n}\n\n/**\n * Returns an array

of UShort containing all of the elements of this generic array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Array<out UShort>.toUShortArray(): UShortArray {\n    return UShortArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of type [UShortArray], which is a copy of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.toUShortArray(): UShortArray {\n    return UShortArray(this.copyOf())\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n
*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V> UIntArray.associateWith(valueSelector: (UInt) -> V): Map<UInt, V> {\n    val result = LinkedHashMap<UInt, V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n
*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V> ULongArray.associateWith(valueSelector: (ULong) -> V): Map<ULong, V> {\n    val result = LinkedHashMap<ULong, V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n
*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V> UByteArray.associateWith(valueSelector: (UByte) -> V): Map<UByte, V> {\n    val result = LinkedHashMap<UByte, V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result, valueSelector)\n}\n\n/**\n
 * Returns a [Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n
*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V> UShortArray.associateWith(valueSelector: (UShort) -> V): Map<UShort, V> {\n    val result = LinkedHashMap<UShort, V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result, valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites\n the former value in the map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n
*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in UInt, in V>> UIntArray.associateWithTo(destination: M, valueSelector: (UInt) -> V): M {\n    for (element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n
*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V, M :

MutableMap<in ULong, in V>> ULongArray.associateWithTo(destination:
M, valueSelector: (ULong) -> V): M {\n for (element in this) {\n destination.put(element, valueSelector(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in UByte, in V>> UByteArray.associateWithTo(destination: M, valueSelector: (UByte) -> V): M {\n for (element in this) {\n destination.put(element, valueSelector(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with
key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in UShort, in V>> UShortArray.associateWithTo(destination: M, valueSelector: (UShort) -> V): M {\n for (element in this) {\n destination.put(element, valueSelector(element))\n }\n return destination\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
<R> UIntArray.flatMap(transform: (UInt) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.flatMap(transform: (ULong) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.flatMap(transform: (UByte) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n
* Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.flatMap(transform: (UShort) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.flatMapIndexed(transform: (index: Int, UInt) -> Iterable<R>): List<R> {\n return flatMapIndexedTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.flatMapIndexed(transform: (index: Int, ULong) -> Iterable<R>): List<R> {\n return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.flatMapIndexed(transform: (index: Int, UByte) -> Iterable<R>): List<R> {\n return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.flatMapIndexed(transform: (index: Int, UShort) -> Iterable<R>): List<R> {\n return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array, to the given [destination].\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UIntArray.flatMapIndexedTo(destination: C, transform: (index: Int, UInt) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++, element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array, to the given [destination].\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> ULongArray.flatMapIndexedTo(destination: C, transform: (index: Int, ULong) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++, element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array, to the given [destination].\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UByteArray.flatMapIndexedTo(destination: C, transform: (index: Int, UByte) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++, element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array, to the given [destination].\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UShortArray.flatMapIndexedTo(destination: C, transform: (index: Int, UShort) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++, element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UIntArray.flatMapTo(destination: C, transform: (UInt) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n

```
}\n    return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> ULongArray.flatMapTo(destination: C, transform: (ULong) -> Iterable<R>): C {\n    for (element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UByteArray.flatMapTo(destination: C, transform: (UByte) -> Iterable<R>): C {\n    for (element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UShortArray.flatMapTo(destination: C, transform: (UShort) -> Iterable<R>): C {\n    for (element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K> UIntArray.groupBy(keySelector: (UInt) -> K): Map<K, List<UInt>> {\n    return groupByTo(LinkedHashMap<K, MutableList<UInt>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K> ULongArray.groupBy(keySelector: (ULong) -> K): Map<K, List<ULong>> {\n    return groupByTo(LinkedHashMap<K, MutableList<ULong>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K> UByteArray.groupBy(keySelector: (UByte) -> K): Map<K, List<UByte>> {\n    return groupByTo(LinkedHashMap<K, MutableList<UByte>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K> UShortArray.groupBy(keySelector: (UShort) -> K): Map<K, List<UShort>> {\n    return groupByTo(LinkedHashMap<K, MutableList<UShort>>(), keySelector)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V>
```

UIntArray.groupBy(keySelector: (UInt) -> K, valueTransform: (UInt) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned
by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> ULongArray.groupBy(keySelector: (ULong) -> K, valueTransform: (ULong) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated
with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> UByteArray.groupBy(keySelector: (UByte) -> K, valueTransform: (UByte) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> UShortArray.groupBy(keySelector: (UShort) -> K, valueTransform: (UShort) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M : MutableMap<in K, MutableList<UInt>>> UIntArray.groupByTo(destination: M, keySelector: (UInt) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<UInt>()
}\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M : MutableMap<in K, MutableList<ULong>>> ULongArray.groupByTo(destination: M, keySelector: (ULong) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<ULong>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each
group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M : MutableMap<in K, MutableList<UByte>>> UByteArray.groupByTo(destination: M, keySelector: (UByte) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) {

ArrayList<UByte>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M : MutableMap<in K, MutableList<UShort>>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<UShort>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> UIntArray.groupByTo(destination: M, keySelector: (UInt) -> K, valueTransform: (UInt) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> ULongArray.groupByTo(destination: M, keySelector: (ULong) -> K, valueTransform: (ULong) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> UByteArray.groupByTo(destination: M, keySelector: (UByte) -> K, valueTransform: (UByte) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K, valueTransform: (UShort) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element
in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.map(transform: (UInt) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n *

Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.map(transform: (ULong) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.map(transform: (UByte) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.map(transform: (UShort) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.mapIndexed(transform: (index: Int, UInt) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.mapIndexed(transform: (index: Int, ULong) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.mapIndexed(transform: (index: Int, UByte) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.mapIndexed(transform: (index: Int, UShort) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UIntArray.mapIndexedTo(destination: C, transform: (index: Int, UInt) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> ULongArray.mapIndexedTo(destination: C, transform: (index: Int, ULong) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes

the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UByteArray.mapIndexedTo(destination: C, transform: (index: Int, UByte) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UShortArray.mapIndexedTo(destination: C, transform: (index: Int, UShort) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UIntArray.mapTo(destination: C, transform: (UInt) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> ULongArray.mapTo(destination: C, transform: (ULong) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UByteArray.mapTo(destination: C, transform: (UByte) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UShortArray.mapTo(destination: C, transform: (UShort) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.withIndex(): Iterable<IndexedValue<UInt>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.withIndex(): Iterable<IndexedValue<ULong>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.withIndex(): Iterable<IndexedValue<UByte>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.withIndex(): Iterable<IndexedValue<UShort>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.all(predicate: (UInt) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic

inline fun ULongArray.all(predicate: (ULong) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.all(predicate: (UByte) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.all(predicate: (UShort) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n *
Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.any(): Boolean {\n return storage.any()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.any(): Boolean {\n return storage.any()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.any(): Boolean {\n return storage.any()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.any(): Boolean {\n return storage.any()\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.any(predicate: (UInt) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.any(predicate: (ULong) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns `true` if at least one element matches the
given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.any(predicate: (UByte) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.any(predicate: (UShort) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.count(predicate: (UInt) -> Boolean): Int {\n var count = 0\n
for (element in this) if (predicate(element)) ++count\n return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.count(predicate: (ULong) -> Boolean): Int {\n var count = 0\n for (element in this) if (predicate(element)) ++count\n return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.count(predicate: (UByte) -> Boolean): Int {\n var count = 0\n for (element in this) if (predicate(element)) ++count\n return count\n}\n\n/**\n * Returns the number of elements matching the given

[predicate].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.count(predicate: (UShort) -> Boolean): Int {\n    var count = 0\n    for (element in this) if (predicate(element)) ++count\n    return count\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.fold(initial: R, operation: (acc: R, UInt) -> R): R {\n    var accumulator = initial\n    for (element in this) accumulator = operation(accumulator, element)\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.fold(initial: R, operation: (acc: R, ULong) -> R): R {\n    var accumulator = initial\n    for (element in this) accumulator = operation(accumulator, element)\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.fold(initial: R, operation: (acc: R, UByte) -> R): R {\n    var accumulator = initial\n    for (element in this) accumulator = operation(accumulator, element)\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.fold(initial: R, operation: (acc: R, UShort) -> R): R {\n    var accumulator = initial\n    for (element in this) accumulator = operation(accumulator, element)\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): R {\n    var index = 0\n    var accumulator = initial\n    for (element in this) accumulator = operation(index++, accumulator, element)\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.foldIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): R {\n    var index = 0\n    var accumulator = initial\n    for (element in this) accumulator = operation(index++, accumulator, element)\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>

UByteArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> R): R {\n    var index = 0\n    var accumulator = initial\n    for (element in this) accumulator =
operation(index++, accumulator, element)\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UShort) -> R): R {\n    var index = 0\n    var accumulator = initial\n    for (element in this) accumulator = operation(index++, accumulator, element)\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element and current accumulator
value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.foldRight(initial: R, operation: (UInt, acc: R) -> R): R {\n    var index = lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun <R> ULongArray.foldRight(initial: R, operation: (ULong, acc: R) -> R): R {\n    var index = lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.foldRight(initial: R, operation: (UByte, acc: R) -> R): R {\n    var index = lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n
* Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.foldRight(initial: R, operation: (UShort, acc: R) -> R): R {\n    var index = lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function
that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.foldRightIndexed(initial: R, operation: (index: Int, UInt, acc: R) -> R): R {\n    var index = lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n

* \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun <R> ULongArray.foldRightIndexed(initial: R, operation: (index: Int, ULong, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.foldRightIndexed(initial: R, operation: (index: Int, UByte, acc: R) -> R): R {\n
var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.foldRightIndexed(initial: R, operation: (index: Int, UShort, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n
return accumulator\n}\n\n/**\n * Performs the given [action] on each element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.forEach(action: (UInt) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.forEach(action: (ULong) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.forEach(action: (UByte) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.forEach(action: (UShort) -> Unit):
Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.forEachIndexed(action: (index: Int, UInt) -> Unit): Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.forEachIndexed(action: (index: Int, ULong) -> Unit): Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n
* Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

UByteArray.forEachIndexed(action: (index: Int, UByte) -> Unit): Unit {\n    var index = 0\n    for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.forEachIndexed(action: (index: Int, UShort) -> Unit): Unit {\n    var index = 0\n    for (item in this) action(index++, item)\n}\n\n@Deprecated(\"Use maxOrNull instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.max(): UInt? {\n    return maxOrNull()\n}\n\n@Deprecated(\"Use maxOrNull instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.max(): ULong? {\n    return maxOrNull()\n}\n\n@Deprecated(\"Use maxOrNull instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.max(): UByte? {\n    return maxOrNull()\n}\n\n@Deprecated(\"Use maxOrNull instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.max(): UShort? {\n    return maxOrNull()\n}\n\n@Deprecated(\"Use maxByOrNull instead.\", ReplaceWith(\"this.maxByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UIntArray.maxBy(selector: (UInt) -> R): UInt? {\n    return maxByOrNull(selector)\n}\n\n@Deprecated(\"Use maxByOrNull instead.\", ReplaceWith(\"this.maxByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> ULongArray.maxBy(selector: (ULong) -> R): ULong? {\n    return maxByOrNull(selector)\n}\n\n@Deprecated(\"Use maxByOrNull instead.\", ReplaceWith(\"this.maxByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UByteArray.maxBy(selector: (UByte) -> R): UByte? {\n    return maxByOrNull(selector)\n}\n\n@Deprecated(\"Use maxByOrNull instead.\", ReplaceWith(\"this.maxByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UShortArray.maxBy(selector: (UShort) -> R): UShort? {\n    return maxByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UIntArray.maxByOrNull(selector: (UInt) -> R): UInt? {\n    if (isEmpty()) return null\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :

Comparable<R>> ULongArray.maxByOrNull(selector: (ULong) -> R): ULong? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UByteArray.maxByOrNull(selector: (UByte) -> R): UByte? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UShortArray.maxByOrNull(selector: (UShort) -> R): UShort? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.maxOf(selector: (UInt) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.maxOf(selector: (ULong) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.maxOf(selector: (UByte) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.maxOf(selector: (UShort) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.maxOf(selector: (UInt) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.maxOf(selector: (ULong) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.maxOf(selector: (UByte) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.maxOf(selector: (UShort) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UIntArray.maxOf(selector: (UInt) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>

ULongArray.maxOf(selector: (ULong) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UByteArray.maxOf(selector: (UByte) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UShortArray.maxOf(selector: (UShort) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.maxOfOrNull(selector: (UInt) -> Double): Double? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.maxOfOrNull(selector: (ULong) -> Double): Double? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.maxOfOrNull(selector: (UByte) -> Double): Double? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.maxOfOrNull(selector: (UShort) -> Double): Double? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of

values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UIntArray.maxOfOrNull(selector: (UInt) -> Float): Float? {\n if (isEmpty()) return null\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue =
maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.maxOfOrNull(selector: (ULong) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue =
selector(this[0])\n
for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function
is `NaN`, the returned result is `NaN`.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.maxOfOrNull(selector: (UByte) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n
}\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n *
applied to each element in the array or
`null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result
is `NaN`.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.maxOfOrNull(selector: (UShort) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n
}\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n *
applied to each element in the array or `null` if there are no elements.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UIntArray.maxOfOrNull(selector:
(UInt) -> R): R? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n
val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array or `null` if there are no elements.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> ULongArray.maxOfOrNull(selector: (ULong) -> R): R? {\n if (isEmpty()) return null\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values
produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UByteArray.maxOfOrNull(selector: (UByte) -> R): R? {\n if (isEmpty()) return null\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values

produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
UShortArray.maxOfOrNull(selector: (UShort) -> R): R? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.maxOfWith(comparator: Comparator<in R>, selector: (UInt) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(maxValue,
v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.maxOfWith(comparator: Comparator<in R>, selector: (ULong) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.maxOfWith(comparator: Comparator<in R>, selector: (UByte) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun <R> UShortArray.maxOfWith(comparator: Comparator<in R>, selector: (UShort) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (UInt) -> R): R? {\n if (isEmpty()) return
null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (ULong) -> R): R? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (UByte) -> R): R? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (UShort) -> R): R? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.maxOrNull(): UInt? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.maxOrNull(): ULong? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.maxOrNull(): UByte? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.maxOrNull(): UShort? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n@Deprecated(\"Use maxWithOrNull instead.\", ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.maxWith(comparator: Comparator<in UInt>): UInt? {\n return maxWithOrNull(comparator)\n}\n\n@Deprecated(\"Use maxWithOrNull instead.\", ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.maxWith(comparator: Comparator<in ULong>): ULong? {\n return maxWithOrNull(comparator)\n}\n\n@Deprecated(\"Use maxWithOrNull instead.\", ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.maxWith(comparator: Comparator<in UByte>): UByte? {\n return maxWithOrNull(comparator)\n}\n\n@Deprecated(\"Use maxWithOrNull instead.\", ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.maxWith(comparator: Comparator<in UShort>): UShort? {\n return maxWithOrNull(comparator)\n}\n\n/**\n * Returns the first element

having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.maxWithOrNull(comparator: Comparator<in UInt>): UInt? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.maxWithOrNull(comparator: Comparator<in ULong>): ULong? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.maxWithOrNull(comparator: Comparator<in UByte>): UByte? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.maxWithOrNull(comparator: Comparator<in UShort>): UShort? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n@Deprecated(\"Use minOrNull instead.\", ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.min(): UInt? {\n    return minOrNull()\n}\n\n@Deprecated(\"Use minOrNull instead.\", ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.min(): ULong? {\n    return minOrNull()\n}\n\n@Deprecated(\"Use minOrNull instead.\", ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.min(): UByte? {\n    return minOrNull()\n}\n\n@Deprecated(\"Use minOrNull instead.\", ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.min(): UShort? {\n    return minOrNull()\n}\n\n@Deprecated(\"Use minByOrNull instead.\", ReplaceWith(\"this.minByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UIntArray.minBy(selector: (UInt) -> R): UInt? {\n    return minByOrNull(selector)\n}\n\n@Deprecated(\"Use minByOrNull instead.\", ReplaceWith(\"this.minByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> ULongArray.minBy(selector: (ULong) -> R): ULong? {\n    return minByOrNull(selector)\n}\n\n@Deprecated(\"Use minByOrNull instead.\", ReplaceWith(\"this.minByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UByteArray.minBy(selector: (UByte) -> R): UByte? {\n    return minByOrNull(selector)\n}\n\n@Deprecated(\"Use minByOrNull instead.\", ReplaceWith(\"this.minByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

<R : Comparable<R>> UShortArray.minBy(selector: (UShort) -> R): UShort? {\n return minByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UIntArray.minByOrNull(selector: (UInt) -> R): UInt? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> ULongArray.minByOrNull(selector: (ULong) -> R): ULong? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UByteArray.minByOrNull(selector: (UByte) -> R): UByte? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UShortArray.minByOrNull(selector: (UShort) -> R): UShort? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.minOf(selector: (UInt) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.minOf(selector: (ULong) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.minOf(selector: (UByte) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.minOf(selector: (UShort) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.minOf(selector: (UInt) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.minOf(selector: (ULong) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.minOf(selector: (UByte) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.minOf(selector: (UShort) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UIntArray.minOf(selector: (UInt) -> R): R {\n if (isEmpty()) throw

NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> ULongArray.minOf(selector: (ULong) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UByteArray.minOf(selector: (UByte) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UShortArray.minOf(selector: (UShort) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced\n * by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.minOfOrNull(selector: (UInt) -> Double): Double? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.minOfOrNull(selector: (ULong) -> Double): Double? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.minOfOrNull(selector: (UByte) -> Double): Double? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function

is `NaN`, the returned result is `NaN`.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.minOfOrNull(selector: (UShort) -> Double): Double? {\n if (isEmpty()) return null\n var minValue
= selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n
}\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n
* applied to each element in
the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the
returned result is `NaN`.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.minOfOrNull(selector: (UInt) -> Float): Float? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n
}\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n *
applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.minOfOrNull(selector: (ULong) -> Float): Float? {\n if (isEmpty()) return null\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue =
minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.minOfOrNull(selector: (UByte) -> Float): Float? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n
minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all
values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n *
\n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.minOfOrNull(selector: (UShort) -> Float): Float? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n
}\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n *
applied to each element in the array or `null` if there are no elements.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun <R : Comparable<R>> UIntArray.minOfOrNull(selector: (UInt) -> R): R? {\n if (isEmpty()) return
null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value
among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no
elements.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> ULongArray.minOfOrNull(selector: (ULong) -> R): R? {\n if (isEmpty()) return null\n var
minValue = selector(this[0])\n

for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UByteArray.minOfOrNull(selector: (UByte) -> R): R? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UShortArray.minOfOrNull(selector: (UShort) -> R): R? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.minOfWith(comparator: Comparator<in R>, selector: (UInt) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.minOfWith(comparator: Comparator<in R>, selector: (ULong) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.minOfWith(comparator: Comparator<in R>, selector: (UByte) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced\n by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.minOfWith(comparator: Comparator<in R>, selector: (UShort) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (UInt) -> R): R? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (ULong) -> R): R? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (UByte) -> R): R? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (UShort) -> R): R? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.minOrNull(): UInt? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.minOrNull(): ULong? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.minOrNull(): UByte? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.minOrNull(): UShort? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n@Deprecated(\"Use minWithOrNull instead.\", ReplaceWith(\"this.minWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.minWith(comparator: Comparator<in UInt>): UInt? {\n return minWithOrNull(comparator)\n}\n\n@Deprecated(\"Use minWithOrNull instead.\", ReplaceWith(\"this.minWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.minWith(comparator: Comparator<in ULong>): ULong? {\n return

minWithOrNull(comparator)\n}\n\n@Deprecated(\"Use minWithOrNull instead.\", ReplaceWith(\"this.minWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.minWith(comparator: Comparator<in UByte>): UByte? {\n return minWithOrNull(comparator)\n}\n\n@Deprecated(\"Use minWithOrNull instead.\", ReplaceWith(\"this.minWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.minWith(comparator: Comparator<in UShort>): UShort? {\n return minWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.minWithOrNull(comparator: Comparator<in UInt>): UInt? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.minWithOrNull(comparator: Comparator<in ULong>): ULong? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.minWithOrNull(comparator: Comparator<in UByte>): UByte? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.minWithOrNull(comparator: Comparator<in UShort>): UShort? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.none(predicate: (UInt) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.none(predicate: (ULong) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.none(predicate: (UByte) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return false\n    return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.none(predicate: (UShort) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return false\n    return true\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself afterwards.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.onEach(action: (UInt) -> Unit): UIntArray {\n    return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself afterwards.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.onEach(action: (ULong) -> Unit): ULongArray {\n    return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself afterwards.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.onEach(action: (UByte) -> Unit): UByteArray {\n    return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself afterwards.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.onEach(action: (UShort) -> Unit): UShortArray {\n    return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.onEachIndexed(action: (index: Int, UInt) -> Unit): UIntArray {\n    return apply { forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.onEachIndexed(action: (index: Int, ULong) -> Unit): ULongArray {\n    return apply { forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.onEachIndexed(action: (index: Int, UByte) -> Unit): UByteArray {\n    return apply { forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.onEachIndexed(action: (index: Int, UShort) -> Unit): UShortArray {\n    return apply { forEachIndexed(action) }\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reduce(operation: (acc: UInt, UInt) -> UInt): UInt {\n    if (isEmpty())\n        throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n    var accumulator = this[0]\n    for (index in 1..lastIndex) {\n        accumulator = operation(accumulator, this[index])\n    }\n    return accumulator\n}\n\n/**\n *

Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reduce(operation:
(acc: ULong, ULong) -> ULong): ULong {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reduce(operation: (acc: UByte,
UByte) -> UByte): UByte {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduce(operation: (acc: UShort, UShort) -> UShort):
UShort {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reduceIndexed(operation:
(index: Int, acc: UInt, UInt) -> UInt): UInt {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic

inline fun ULongArray.reduceIndexed(operation: (index: Int, acc: ULong, ULong) -> ULong): ULong {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reduceIndexed(operation: (index: Int, acc: UByte, UByte) -> UByte): UByte {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduceIndexed(operation: (index: Int, acc: UShort, UShort) -> UShort): UShort {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reduceIndexedOrNull(operation: (index: Int, acc: UInt, UInt) -> UInt): UInt? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reduceIndexedOrNull(operation: (index: Int, acc: ULong, ULong) -> ULong): ULong? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reduceIndexedOrNull(operation: (index: Int, acc:\n UByte, UByte) -> UByte): UByte? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return

accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduceIndexedOrNull(operation: (index: Int, acc: UShort, UShort) -> UShort): UShort? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reduceOrNull(operation: (acc: UInt, UInt) -> UInt): UInt? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting
with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reduceOrNull(operation: (acc: ULong, ULong) -> ULong): ULong? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array
is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reduceOrNull(operation: (acc: UByte, UByte) -> UByte): UByte? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduceOrNull(operation: (acc: UShort, UShort) -> UShort): UShort? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n

```
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reduceRight(operation: (UInt, acc: UInt) -> UInt): UInt {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reduceRight(operation: (ULong, acc: ULong) -> ULong): ULong {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reduceRight(operation: (UByte, acc: UByte) -> UByte): UByte {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduceRight(operation: (UShort, acc: UShort) -> UShort): UShort {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current\n * accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reduceRightIndexed(operation: (index: Int, UInt, acc: UInt) -> UInt): UInt {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use
```

[reduceRightIndexedOrNull] instead. It returns `null` when its receiver
is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reduceRightIndexed(operation: (index: Int, ULong, acc: ULong) -> ULong): ULong {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Throws an exception if this array is empty. If the
array can be empty in an expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reduceRightIndexed(operation: (index: Int, UByte, acc: UByte) -> UByte): UByte {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduceRightIndexed(operation: (index: Int, UShort, acc: UShort) -> UShort): UShort {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n
* Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reduceRightIndexedOrNull(operation: (index: Int, UInt, acc: UInt) -> UInt): UInt? {\n    var index = lastIndex\n    if (index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation]
from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reduceRightIndexedOrNull(operation: (index: Int, ULong, acc: ULong) -> ULong): ULong? {\n    var index = lastIndex\n    if (index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n

accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original
array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reduceRightIndexedOrNull(operation: (index: Int, UByte, acc: UByte) -> UByte): UByte? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns `null` if the array
is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduceRightIndexedOrNull(operation: (index: Int, UShort, acc: UShort) -> UShort): UShort? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n
* and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reduceRightOrNull(operation: (UInt, acc: UInt) -> UInt): UInt? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.reduceRightOrNull(operation: (ULong, acc: ULong) -> ULong): ULong? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reduceRightOrNull(operation:
(UByte, acc: UByte) -> UByte): UByte? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next

accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduceRightOrNull(operation: (UShort, acc: UShort) -> UShort): UShort? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.runningFold(initial: R, operation: (acc: R, UInt) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (element in this) {\n accumulator = operation(accumulator, element)\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.runningFold(initial: R, operation: (acc: R, ULong) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (element in this) {\n accumulator = operation(accumulator, element)\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.runningFold(initial: R, operation: (acc: R, UByte) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (element in this) {\n accumulator = operation(accumulator, element)\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.runningFold(initial: R, operation: (acc: R, UShort) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (element in this) {\n accumulator = operation(accumulator, element)\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function

should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes
the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, UShort) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.runningReduce(operation: (acc: UInt, UInt) -> UInt): List<UInt> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<UInt>(size).apply { add(accumulator) }\n for

(index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left
to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.runningReduce(operation: (acc: ULong, ULong) -> ULong): List<ULong> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<ULong>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive
accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.runningReduce(operation: (acc: UByte, UByte) -> UByte): List<UByte> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<UByte>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n }\n return
result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.runningReduce(operation: (acc: UShort, UShort) -> UShort): List<UShort> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<UShort>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(accumulator,
this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.runningReduceIndexed(operation: (index: Int, acc: UInt, UInt) -> UInt): List<UInt> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n
val result = ArrayList<UInt>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would

affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.runningReduceIndexed(operation: (index: Int, acc: ULong, ULong) -> ULong): List<ULong> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<ULong>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.runningReduceIndexed(operation: (index: Int, acc: UByte, UByte) -> UByte): List<UByte> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<UByte>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.runningReduceIndexed(operation: (index: Int, acc: UShort, UShort) -> UShort): List<UShort> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<UShort>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.scan(initial: R, operation: (acc: R, UInt) -> R): List<R> {\n return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.scan(initial: R, operation: (acc: R, ULong) -> R): List<R> {\n return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that

starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <R> UByteArray.scan(initial: R, operation: (acc: R, UByte) -> R): List<R> {\n return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.scan(initial: R, operation: (acc: R, UShort) -> R): List<R> {\n return runningFold(initial,
operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.scanIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): List<R> {\n return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.scanIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): List<R> {\n return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n
* to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.scanIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> R): List<R> {\n return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator
value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next

accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.scanIndexed(initial: R, operation: (index: Int, acc: R, UShort) -> R): List<R> {\n return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.sumBy(selector: (UInt) -> UInt): UInt {\n var sum: UInt = 0u\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sumBy(selector: (ULong) -> UInt): UInt {\n var sum: UInt = 0u\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sumBy(selector: (UByte) -> UInt): UInt {\n var sum: UInt = 0u\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.sumBy(selector: (UShort) -> UInt): UInt {\n var sum: UInt = 0u\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.sumByDouble(selector: (UInt) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sumByDouble(selector: (ULong) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sumByDouble(selector: (UByte) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.sumByDouble(selector: (UShort) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfDouble\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic

inline fun UIntArray.sumOf(selector: (UInt) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfDouble\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sumOf(selector: (ULong) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfDouble\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sumOf(selector: (UByte) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfDouble\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.sumOf(selector: (UShort) -> Double): Double {\n var sum: Double\n = 0.toDouble()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfInt\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.sumOf(selector: (UInt) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfInt\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic\n inline fun ULongArray.sumOf(selector: (ULong) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfInt\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sumOf(selector: (UByte) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfInt\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic\n inline fun UShortArray.sumOf(selector: (UShort) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfLong\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.sumOf(selector: (UInt)

-> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfLong\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sumOf(selector: (ULong) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfLong\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sumOf(selector: (UByte) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfLong\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.sumOf(selector: (UShort) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.sumOf(selector: (UInt) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sumOf(selector: (ULong) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sumOf(selector: (UByte) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.sumOf(selector: (UShort) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n    for (element in this) {\n

sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.sumOf(selector: (UInt) -> ULong): ULong {\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sumOf(selector: (ULong) -> ULong): ULong {\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sumOf(selector: (UByte) -> ULong): ULong {\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.sumOf(selector: (UShort) -> ULong): ULong {\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UIntArray.zip(other: Array<out R>): List<Pair<UInt, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> ULongArray.zip(other: Array<out R>): List<Pair<ULong, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UByteArray.zip(other: Array<out R>): List<Pair<UByte, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UShortArray.zip(other: Array<out R>): List<Pair<UShort, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>

UIntArray.zip(other: Array<out R>, transform: (a: UInt, b: R) -> V): List<V> {\n    val size = minOf(size, other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n *
Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> ULongArray.zip(other: Array<out R>, transform: (a: ULong, b: R) -> V): List<V> {\n    val size = minOf(size, other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> UByteArray.zip(other: Array<out R>, transform: (a: UByte, b: R) -> V): List<V> {\n    val size = minOf(size, other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> UShortArray.zip(other: Array<out R>, transform: (a: UShort, b: R) -> V): List<V> {\n    val size = minOf(size, other.size)\n    val list
= ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UIntArray.zip(other: Iterable<R>): List<Pair<UInt, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> ULongArray.zip(other: Iterable<R>): List<Pair<ULong, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n
* Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UByteArray.zip(other: Iterable<R>): List<Pair<UByte, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UShortArray.zip(other: Iterable<R>): List<Pair<UShort, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n *
using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> UIntArray.zip(other: Iterable<R>, transform: (a: UInt, b: R) -> V): List<V> {\n    val arraySize = size\n    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n    for (element in other) {\n

if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> ULongArray.zip(other: Iterable<R>, transform: (a: ULong, b: R) -> V): List<V> {\n val arraySize = size\n val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> UByteArray.zip(other: Iterable<R>, transform: (a: UByte, b: R) -> V): List<V>
{\n val arraySize = size\n val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> UShortArray.zip(other: Iterable<R>, transform: (a: UShort, b: R) -> V): List<V> {\n val arraySize = size\n val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n if (i >= arraySize) break\n
list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UIntArray.zip(other: UIntArray): List<Pair<UInt, UInt>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun ULongArray.zip(other: ULongArray): List<Pair<ULong, ULong>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of
`this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UByteArray.zip(other: UByteArray): List<Pair<UByte, UByte>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UShortArray.zip(other: UShortArray): List<Pair<UShort, UShort>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n
* The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V> UIntArray.zip(other: UIntArray, transform: (a: UInt, b: UInt) -> V): List<V> {\n val size = minOf(size, other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n

}\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V> ULongArray.zip(other: ULongArray, transform: (a: ULong, b: ULong) -> V): List<V> {\n    val size = minOf(size, other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V> UByteArray.zip(other: UByteArray, transform: (a: UByte, b: UByte) -> V): List<V> {\n    val size = minOf(size, other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V> UShortArray.zip(other: UShortArray, transform: (a: UShort, b: UShort) -> V): List<V> {\n    val size = minOf(size, other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Array<out UInt>.sum(): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Array<out ULong>.sum(): ULong {\n    var sum: ULong = 0uL\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfUByte\")\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Array<out UByte>.sum(): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfUShort\")\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Array<out UShort>.sum(): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.sum(): UInt {\n    return storage.sum().toUInt()\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sum(): ULong {\n    return storage.sum().toULong()\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sum(): UInt {\n    return sumOf { it.toUInt() }\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.sum(): UInt {\n    return sumOf { it.toUInt() }\n}\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"UCollectionsKt\")\n\npackage

kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns an array of UByte containing all of the elements of this collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Collection<UByte>.toUByteArray(): UByteArray {\n val result = UByteArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n return result\n}\n\n/**\n * Returns an array of UInt containing all of the elements of this collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Collection<UInt>.toUIntArray(): UIntArray {\n val result = UIntArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n return result\n}\n\n/**\n * Returns an array of ULong containing all of the elements of this collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Collection<ULong>.toULongArray(): ULongArray {\n val result = ULongArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n return result\n}\n\n/**\n * Returns an array of UShort containing all of the elements of this collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Collection<UShort>.toUShortArray(): UShortArray {\n val result = UShortArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n return result\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Iterable<UInt>.sum(): UInt {\n var sum: UInt = 0u\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Iterable<ULong>.sum(): ULong {\n var sum: ULong = 0uL\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfUByte\")\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Iterable<UByte>.sum(): UInt {\n var sum: UInt = 0u\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfUShort\")\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Iterable<UShort>.sum(): UInt {\n var sum: UInt = 0u\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"UComparisonsKt\")\n\npackage kotlin.comparisons\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun maxOf(a: UInt, b: UInt): UInt {\n return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun maxOf(a: ULong, b: ULong): ULong {\n return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun maxOf(a: UByte, b: UByte): UByte {\n return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun maxOf(a: UShort, b: UShort): UShort {\n return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun maxOf(a: UInt, b: UInt, c: UInt): UInt {\n return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\

npublic inline fun maxOf(a: ULong, b: ULong, c: ULong): ULong {\n    return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three values.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic
 inline fun maxOf(a: UByte, b: UByte, c: UByte): UByte {\n    return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three values.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun maxOf(a: UShort, b: UShort, c: UShort): UShort {\n    return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of the given values.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun maxOf(a: UInt, vararg other: UInt): UInt {\n    var max = a\n    for (e in other) max = maxOf(max, e)\n    return max\n}\n\n/**\n * Returns the greater of the given values.\n
*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun maxOf(a: ULong, vararg other: ULong): ULong {\n    var max = a\n    for (e in other) max = maxOf(max, e)\n    return max\n}\n\n/**\n * Returns the greater of the given values.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic
 fun maxOf(a: UByte, vararg other: UByte): UByte {\n    var max = a\n    for (e in other) max = maxOf(max, e)\n    return max\n}\n\n/**\n * Returns the greater of the given values.\n
*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun maxOf(a: UShort, vararg other: UShort): UShort {\n    var max = a\n    for (e in other) max = maxOf(max, e)\n    return max\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun minOf(a: UInt, b: UInt): UInt {\n    return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun minOf(a: ULong, b: ULong): ULong {\n    return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun minOf(a: UByte, b: UByte): UByte {\n    return
 if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun minOf(a: UShort, b: UShort): UShort {\n    return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of three values.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun minOf(a: UInt, b: UInt, c: UInt): UInt {\n    return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns the smaller of three values.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun minOf(a: ULong, b: ULong, c: ULong): ULong {\n    return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns the smaller of three values.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun minOf(a: UByte, b: UByte, c: UByte): UByte {\n    return minOf(a, minOf(b,
 c))\n}\n\n/**\n * Returns the smaller of three values.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun minOf(a: UShort, b: UShort, c: UShort): UShort {\n    return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns the smaller of the given values.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun minOf(a: UInt, vararg other: UInt): UInt {\n    var min = a\n    for (e in other) min = minOf(min, e)\n    return min\n}\n\n/**\n * Returns the smaller of the given values.\n
*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun minOf(a: ULong, vararg other: ULong): ULong {\n    var min = a\n    for (e in other) min = minOf(min, e)\n    return min\n}\n\n/**\n * Returns the smaller of the given values.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun minOf(a: UByte, vararg other: UByte): UByte {\n    var min = a\n    for (e in other) min = minOf(min, e)\n    return min\n}\n\n/**\n
 * Returns the smaller of the given values.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun minOf(a: UShort, vararg other: UShort): UShort {\n    var min = a\n    for (e in other) min = minOf(min, e)\n return min\n}\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *

Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"URangesKt\")\n\npackage kotlin.ranges\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\n\n/**\n * Returns a random element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UIntRange.random():
UInt {\n    return random(Random)\n}\n\n/**\n * Returns a random element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULongRange.random(): ULong {\n    return random(Random)\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun UIntRange.random(random: Random): UInt {\n    try {\n        return random.nextUInt(this)\n    } catch(e: IllegalArgumentException) {\n        throw NoSuchElementException(e.message)\n    }\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic
fun ULongRange.random(random: Random): ULong {\n    try {\n        return random.nextULong(this)\n    } catch(e: IllegalArgumentException) {\n        throw NoSuchElementException(e.message)\n    }\n}\n\n/**\n * Returns a random element from this range, or `null` if this range is empty.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class, ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UIntRange.randomOrNull(): UInt? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this range, or `null` if this range is empty.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class, ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULongRange.randomOrNull(): ULong? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness, or `null` if this range
is empty.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class, ExperimentalUnsignedTypes::class)\npublic fun UIntRange.randomOrNull(random: Random): UInt? {\n    if (isEmpty())\n        return null\n    return random.nextUInt(this)\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness, or `null` if this range is empty.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class, ExperimentalUnsignedTypes::class)\npublic fun ULongRange.randomOrNull(random: Random): ULong? {\n    if (isEmpty())\n        return null\n    return random.nextULong(this)\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntRange.contains(element: UInt?): Boolean {\n    return element != null && contains(element)\n}\n\n/**\n
* Returns `true` if this range contains the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongRange.contains(element: ULong?): Boolean {\n    return element != null && contains(element)\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic operator fun UIntRange.contains(value: UByte): Boolean {\n    return contains(value.toUInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic operator fun

ULongRange.contains(value: UByte): Boolean {\n    return contains(value.toULong())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic
 operator fun ULongRange.contains(value: UInt): Boolean {\n    return contains(value.toULong())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic operator fun UIntRange.contains(value: ULong): Boolean {\n    return (value shr UInt.SIZE_BITS) == 0uL && contains(value.toUInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic operator fun UIntRange.contains(value: UShort): Boolean {\n    return contains(value.toUInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic operator fun ULongRange.contains(value: UShort): Boolean {\n    return contains(value.toULong())\n}\n\n/**\n * Returns a progression from this value down to the specified
 [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun UByte.downTo(to: UByte): UIntProgression {\n    return UIntProgression.fromClosedRange(this.toUInt(), to.toUInt(), -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun UInt.downTo(to: UInt): UIntProgression {\n    return UIntProgression.fromClosedRange(this, to, -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less
 than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun ULong.downTo(to: ULong): ULongProgression {\n    return ULongProgression.fromClosedRange(this, to, -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun UShort.downTo(to: UShort): UIntProgression {\n    return UIntProgression.fromClosedRange(this.toUInt(), to.toUInt(), -1)\n}\n\n/**\n * Returns a progression that goes over the same range in the opposite direction with the same step.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
 UIntProgression.reversed(): UIntProgression {\n    return UIntProgression.fromClosedRange(last, first, -step)\n}\n\n/**\n * Returns a progression that goes over the same range in the opposite direction with the same step.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun ULongProgression.reversed(): ULongProgression {\n    return ULongProgression.fromClosedRange(last, first, -step)\n}\n\n/**\n * Returns a progression that goes over the same range with the given step.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun UIntProgression.step(step: Int): UIntProgression {\n    checkStepIsPositive(step > 0, step)\n    return UIntProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\n/**\n * Returns a progression that goes over the same range with the given step.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun ULongProgression.step(step:
 Long): ULongProgression {\n    checkStepIsPositive(step > 0, step)\n    return ULongProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\n/**\n * Returns a range from

this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun UByte.until(to: UByte): UIntRange {\n    if (to <= UByte.MIN_VALUE) return UIntRange.EMPTY\n    return this.toUInt() .. (to - 1u).toUInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun UInt.until(to: UInt): UIntRange {\n    if (to <= UInt.MIN_VALUE) return UIntRange.EMPTY\n    return this .. (to - 1u).toUInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun ULong.until(to: ULong): ULongRange {\n    if (to <= ULong.MIN_VALUE) return ULongRange.EMPTY\n    return this .. (to - 1u).toULong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun UShort.until(to: UShort): UIntRange {\n    if (to <= UShort.MIN_VALUE) return UIntRange.EMPTY\n    return this.toUInt() .. (to - 1u).toUInt()\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun UInt.coerceAtLeast(minimumValue: UInt): UInt {\n    return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun ULong.coerceAtLeast(minimumValue: ULong): ULong {\n    return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun UByte.coerceAtLeast(minimumValue: UByte): UByte {\n    return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun UShort.coerceAtLeast(minimumValue: UShort): UShort {\n    return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMostUnsigned\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun UInt.coerceAtMost(maximumValue: UInt): UInt {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMostUnsigned\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun ULong.coerceAtMost(maximumValue: ULong): ULong {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this

value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMostUnsigned\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun UByte.coerceAtMost(maximumValue: UByte): UByte {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMostUnsigned\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun UShort.coerceAtMost(maximumValue: UShort): UShort {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun UInt.coerceIn(minimumValue: UInt, maximumValue: UInt): UInt {\n    if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n    if (this < minimumValue) return minimumValue\n    if (this > maximumValue) return maximumValue\n    return this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun ULong.coerceIn(minimumValue: ULong, maximumValue: ULong): ULong {\n    if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n    if (this < minimumValue) return minimumValue\n    if (this > maximumValue) return maximumValue\n    return this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun UByte.coerceIn(minimumValue: UByte, maximumValue: UByte): UByte {\n    if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n    if (this < minimumValue) return minimumValue\n    if (this > maximumValue) return maximumValue\n    return this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun UShort.coerceIn(minimumValue: UShort, maximumValue: UShort): UShort {\n    if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n    if (this < minimumValue) return minimumValue\n    if (this > maximumValue) return maximumValue\n    return this\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive`
if this value is greater than `range.endInclusive`.\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun UInt.coerceIn(range: ClosedRange<UInt>): UInt {\n if (range is ClosedFloatingPointRange) {\n return this.coerceIn<UInt>(range)\n }\n if (range.isEmpty()) throw IllegalArgumentException(\"Cannot coerce value to an empty range: $range.\")\n return when {\n this < range.start -> range.start\n this > range.endInclusive -> range.endInclusive\n else -> this\n }\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun ULong.coerceIn(range: ClosedRange<ULong>): ULong {\n if (range is ClosedFloatingPointRange) {\n return this.coerceIn<ULong>(range)\n }\n if (range.isEmpty()) throw IllegalArgumentException(\"Cannot coerce value to an empty range: $range.\")\n return when {\n this < range.start -> range.start\n this > range.endInclusive -> range.endInclusive\n else -> this\n }\n}\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"USequencesKt\")\n\npackage kotlin.sequences\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Sequence<UInt>.sum(): UInt {\n var sum: UInt = 0u\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Sequence<ULong>.sum(): ULong {\n var sum: ULong = 0uL\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfUByte\")\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Sequence<UByte>.sum(): UInt {\n var sum: UInt = 0u\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfUShort\")\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Sequence<UShort>.sum(): UInt {\n var sum: UInt = 0u\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\n\npublic expect open class Error : Throwable {\n constructor()\n constructor(message: String?)\n constructor(message: String?, cause: Throwable?)\n constructor(cause: Throwable?)\n}\n\npublic expect open class Exception : Throwable {\n constructor()\n constructor(message: String?)\n constructor(message: String?, cause: Throwable?)\n constructor(cause: Throwable?)\n}\n\npublic expect open class RuntimeException : Exception {\n constructor()\n constructor(message: String?)\n constructor(message: String?, cause: Throwable?)\n constructor(cause: Throwable?)\n}\n\npublic expect open class IllegalArgumentException : RuntimeException {\n constructor()\n constructor(message: String?)\n constructor(message: String?, cause: Throwable?)\n constructor(cause: Throwable?)\n}\n\npublic expect open class IllegalStateException : RuntimeException {\n constructor()\n constructor(message: String?)\n constructor(message: String?, cause: Throwable?)\n constructor(cause: Throwable?)\n}\n\npublic expect open class IndexOutOfBoundsException : RuntimeException {\n constructor()\n

constructor(message: String?)\n}\n\npublic expect open class ConcurrentModificationException : RuntimeException {\n constructor()\n constructor(message: String?)\n @Deprecated(\"The constructor is not supported on all platforms and
will be removed from kotlin-stdlib-common soon.\", level = DeprecationLevel.ERROR)\n constructor(message: String?, cause: Throwable?)\n @Deprecated(\"The constructor is not supported on all platforms and will be removed from kotlin-stdlib-common soon.\", level = DeprecationLevel.ERROR)\n constructor(cause: Throwable?)\n}\n\npublic expect open class UnsupportedOperationException : RuntimeException {\n constructor()\n constructor(message: String?)\n constructor(message: String?, cause: Throwable?)\n constructor(cause: Throwable?)\n}\n\npublic expect open class NumberFormatException : IllegalArgumentException {\n constructor()\n constructor(message: String?)\n}\n\npublic expect open class NullPointerException : RuntimeException {\n constructor()\n constructor(message: String?)\n}\n\npublic expect open class ClassCastException : RuntimeException {\n constructor()\n constructor(message: String?)\n}\n\npublic expect open class AssertionError : Error {\n
constructor()\n constructor(message: Any?)\n}\n\npublic expect open class NoSuchElementException : RuntimeException {\n constructor()\n constructor(message: String?)\n}\n\n@SinceKotlin(\"1.3\")\npublic expect open class ArithmeticException : RuntimeException {\n constructor()\n constructor(message: String?)\n}\n\n@Deprecated(\"This exception type is not supposed to be thrown or caught in common code and will be removed from kotlin-stdlib-common soon.\", level = DeprecationLevel.ERROR)\npublic expect open class NoWhenBranchMatchedException : RuntimeException {\n constructor()\n constructor(message: String?)\n constructor(message: String?, cause: Throwable?)\n constructor(cause: Throwable?)\n}\n\n@Deprecated(\"This exception type is not supposed to be thrown or caught in common code and will be removed from kotlin-stdlib-common soon.\", level = DeprecationLevel.ERROR)\npublic expect class UninitializedPropertyAccessException : RuntimeException {\n constructor()\n
constructor(message: String?)\n constructor(message: String?, cause: Throwable?)\n constructor(cause: Throwable?)\n}\n\n/**\n * Thrown after invocation of a function or property that was expected to return `Nothing`, but returned something instead.\n */\n@SinceKotlin(\"1.4\")\n@PublishedApi\ninternal class KotlinNothingValueException : RuntimeException {\n constructor() : super()\n constructor(message: String?) : super(message)\n constructor(message: String?, cause: Throwable?) : super(message, cause)\n constructor(cause: Throwable?) : super(cause)\n}\n\n/**\n * Returns the detailed description of this throwable with its stack trace.\n *\n * The detailed description includes:\n * - the short description (see [Throwable.toString]) of this throwable;\n * - the complete stack trace;\n * - detailed descriptions of the exceptions that were [suppressed][suppressedExceptions] in order to deliver this exception;\n * - the detailed description of each throwable
in the [Throwable.cause] chain.\n */\n@SinceKotlin(\"1.4\")\npublic expect fun Throwable.stackTraceToString(): String\n\n/**\n * Prints the [detailed description][Throwable.stackTraceToString] of this throwable to the standard output or standard error output.\n
*/\n@SinceKotlin(\"1.4\")\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\")\npublic expect fun Throwable.printStackTrace(): Unit\n\n/**\n * When supported by the platform, adds the specified exception to the list of exceptions that were\n * suppressed in order to deliver this exception.\n
*/\n@SinceKotlin(\"1.4\")\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\")\npublic expect fun Throwable.addSuppressed(exception: Throwable)\n\n/**\n * Returns a list of all exceptions that were suppressed in order to deliver this exception.\n *\n * The list can be empty:\n * - if no exceptions were suppressed;\n * - if the platform doesn't support suppressed exceptions;\n * - if this [Throwable] instance has disabled the suppression.\n */\n@SinceKotlin(\"1.4\")\npublic
expect val Throwable.suppressedExceptions: List<Throwable>\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\nimport kotlin.annotation.AnnotationTarget.*\n\n/**\n * Gives a declaration (a function, a property or a class) specific name

in JavaScript.\n */\n@Target(CLASS, FUNCTION, PROPERTY, CONSTRUCTOR, PROPERTY_GETTER, PROPERTY_SETTER)\n@OptionalExpectation\npublic expect annotation class JsName(val name: String)\n\n/**\n * Marks experimental JS export annotations.\n *\n * Note that behavior of these annotations will likely be changed in the future.\n *\n * Usages of such annotations will be reported as warnings unless an explicit opt-in with\n * the [OptIn] annotation, e.g. `@OptIn(ExperimentalJsExport::class)`,\n * or with the `-Xopt-in=kotlin.js.ExperimentalJsExport` compiler option
is given.\n */\n@Suppress(\"DEPRECATION\")\n@Experimental(level = Experimental.Level.WARNING)\n@RequiresOptIn(level = RequiresOptIn.Level.WARNING)\n@MustBeDocumented\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin(\"1.4\")\npublic annotation class ExperimentalJsExport\n\n/**\n * Exports top-level declaration on JS platform.\n *\n * Compiled module exposes declarations that are marked with this annotation without name mangling.\n *\n * This annotation can be applied to either files or top-level declarations.\n *\n * It is currently prohibited to export the following kinds of declarations:\n *\n *  * `expect` declarations\n *  * inline functions with reified type parameters\n *  * suspend functions\n *  * secondary constructors without `@JsName`\n *  * extension properties\n *  * enum classes\n *  * annotation classes\n *\n * Signatures of exported declarations must only contain \"exportable\" types:\n *\n *  * `dynamic`, `Any`, `String`, `Boolean`, `Byte`, `Short`, `Int`, `Float`, `Double`\n *  * `BooleanArray`, `ByteArray`, `ShortArray`, `IntArray`, `FloatArray`, `DoubleArray`\n *  * `Array<exportable-type>`\n *  * Function types with exportable parameters and return types\n *  * `external` or `@JsExport` classes and interfaces\n *  * Nullable counterparts of types above\n *  * Unit return type. Must not be nullable\n *\n * This annotation is experimental, meaning that restrictions mentioned above are subject to change.\n */\n@ExperimentalJsExport\n@Retention(AnnotationRetention.BINARY)\n@Target(CLASS, PROPERTY, FUNCTION, FILE)\n@SinceKotlin(\"1.4\")\n@OptionalExpectation\npublic expect annotation class JsExport()","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.io\n\n\n/** Prints the line separator to the standard output stream. */\npublic expect fun println()\n\n/**
Prints the given [message] and the line separator to the standard output stream. */\npublic expect fun println(message: Any?)\n\n/** Prints the given [message] to the standard output stream. */\npublic expect fun print(message: Any?)\n\n/**\n * Reads a line of input from the standard input stream and returns it,\n * or throws a [RuntimeException] if EOF has already been reached when [readln] is called.\n *\n * LF or CRLF is treated as the line terminator. Line terminator is not included in the returned string.\n *\n * Currently this function is not supported in Kotlin/JS and throws [UnsupportedOperationException].\n */\n@SinceKotlin(\"1.6\")\npublic expect fun readln(): String\n\n/**\n * Reads a line of input from the standard input stream and returns it,\n * or return `null` if EOF has already been reached when [readlnOrNull] is called.\n *\n * LF or CRLF is treated as the line terminator. Line terminator is not included in the returned string.\n *\n * Currently this function is
not supported in Kotlin/JS and throws [UnsupportedOperationException].\n */\n@SinceKotlin(\"1.6\")\npublic expect fun readlnOrNull(): String?\n\ninternal class ReadAfterEOFException(message: String?) : RuntimeException(message)\n\n\ninternal expect interface Serializable\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\nimport kotlin.internal.PlatformDependent\n\n/**\n * Classes that inherit from this interface can be represented as a sequence of elements that can\n * be iterated over.\n * @param T the type of element being iterated over. The iterator is covariant in its element type.\n */\npublic interface Iterable<out T> {\n    /**\n     * Returns an iterator over the elements of this object.\n     */\n    public operator fun iterator(): Iterator<T>\n}\n\n/**\n * Classes that inherit from
this interface can be represented as a sequence of elements that can\n * be iterated over and that supports removing elements during iteration.\n * @param T the type of element being iterated over. The mutable iterator is invariant in its element type.\n */\npublic interface MutableIterable<out T> : Iterable<T> {\n    /**\n     * Returns an iterator

over the elements of this sequence that supports removing elements during iteration.\n */\n override fun iterator(): MutableIterator<T>\n}\n\n/**\n * A generic collection of elements. Methods in this interface support only read-only access to the collection;\n * read/write access is supported through the [MutableCollection] interface.\n * @param E the type of elements contained in the collection. The collection is covariant in its element type.\n */\npublic interface Collection<out E> : Iterable<E> {\n // Query Operations\n /**\n * Returns the size of the collection.\n */\n public val size: Int\n\n /**\n * Returns
`true` if the collection is empty (contains no elements), `false` otherwise.\n */\n public fun isEmpty(): Boolean\n\n /**\n * Checks if the specified element is contained in this collection.\n */\n public operator fun contains(element: @UnsafeVariance E): Boolean\n\n override fun iterator(): Iterator<E>\n\n // Bulk Operations\n /**\n * Checks if all elements in the specified collection are contained in this collection.\n */\n public fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean\n}\n\n/**\n * A generic collection of elements that supports adding and removing elements.\n *\n * @param E the type of elements contained in the collection. The mutable collection is invariant in its element type.\n */\npublic interface MutableCollection<E> : Collection<E>, MutableIterable<E> {\n // Query Operations\n override fun iterator(): MutableIterator<E>\n\n // Modification Operations\n /**\n * Adds the specified element
to the collection.\n *\n * @return `true` if the element has been added, `false` if the collection does not support duplicates\n * and the element is already contained in the collection.\n */\n public fun add(element: E): Boolean\n\n /**\n * Removes a single instance of the specified element from this\n * collection, if it is present.\n *\n * @return `true` if the element has been successfully removed; `false` if it was not present in the collection.\n */\n public fun remove(element: E): Boolean\n\n // Bulk Modification Operations\n /**\n * Adds all of the elements of the specified collection to this collection.\n *\n * @return `true` if any of the specified elements was added to the collection, `false` if the collection was not modified.\n */\n public fun addAll(elements: Collection<E>): Boolean\n\n /**\n * Removes all of this collection's elements that are also contained in the specified collection.\n *\n
* @return `true` if any of the specified elements was removed from the collection, `false` if the collection was not modified.\n */\n public fun removeAll(elements: Collection<E>): Boolean\n\n /**\n * Retains only the elements in this collection that are contained in the specified collection.\n *\n * @return `true` if any element was removed from the collection, `false` if the collection was not modified.\n */\n public fun retainAll(elements: Collection<E>): Boolean\n\n /**\n * Removes all elements from this collection.\n */\n public fun clear(): Unit\n}\n\n/**\n * A generic ordered collection of elements. Methods in this interface support only read-only access to the list;\n * read/write access is supported through the [MutableList] interface.\n * @param E the type of elements contained in the list. The list is covariant in its element type.\n */\npublic interface List<out E> : Collection<E> {\n // Query Operations\n\n override val
size: Int\n override fun isEmpty(): Boolean\n override fun contains(element: @UnsafeVariance E): Boolean\n override fun iterator(): Iterator<E>\n\n // Bulk Operations\n override fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean\n\n // Positional Access Operations\n /**\n * Returns the element at the specified index in the list.\n */\n public operator fun get(index: Int): E\n\n // Search Operations\n /**\n
* Returns the index of the first occurrence of the specified element in the list, or -1 if the specified\n * element is not contained in the list.\n */\n public fun indexOf(element: @UnsafeVariance E): Int\n\n /**\n * Returns the index of the last occurrence of the specified element in the list, or -1 if the specified\n * element is not contained in the list.\n */\n public fun lastIndexOf(element: @UnsafeVariance E): Int\n\n // List Iterators\n /**\n * Returns a list iterator over the elements
in this list (in proper sequence).\n */\n public fun listIterator(): ListIterator<E>\n\n /**\n * Returns a list iterator over the elements in this list (in proper sequence), starting at the specified [index].\n */\n public fun listIterator(index: Int): ListIterator<E>\n\n // View\n /**\n * Returns a view of the portion of this list between the specified [fromIndex] (inclusive) and [toIndex] (exclusive).\n * The returned list is backed by this list, so non-structural changes in the returned list are reflected in this list, and vice-versa.\n *\n * Structural changes in the base list make the behavior of the view undefined.\n */\n public fun subList(fromIndex: Int, toIndex: Int):

List<E>\n}\n\n/**\n * A generic ordered collection of elements that supports adding and removing elements.\n * @param E the type of elements contained in the list. The mutable list is invariant in its element type.\n */\npublic interface MutableList<E> : List<E>,
MutableCollection<E> {\n // Modification Operations\n /**\n * Adds the specified element to the end of this list.\n *\n * @return `true` because the list is always modified as the result of this operation.\n */\n override fun add(element: E): Boolean\n\n override fun remove(element: E): Boolean\n\n // Bulk Modification Operations\n /**\n * Adds all of the elements of the specified collection to the end of this list.\n *\n * The elements are appended in the order they appear in the [elements] collection.\n *\n * @return `true` if the list was changed as the result of the operation.\n */\n override fun addAll(elements: Collection<E>): Boolean\n\n /**\n * Inserts all of the elements of the specified collection [elements] into this list at the specified [index].\n *\n * @return `true` if the list was changed as the result of the operation.\n */\n public fun addAll(index: Int, elements: Collection<E>):
Boolean\n\n override fun removeAll(elements: Collection<E>): Boolean\n override fun retainAll(elements: Collection<E>): Boolean\n override fun clear(): Unit\n\n // Positional Access Operations\n /**\n * Replaces the element at the specified position in this list with the specified element.\n *\n * @return the element previously at the specified position.\n */\n public operator fun set(index: Int, element: E): E\n\n /**\n * Inserts an element into the list at the specified [index].\n */\n public fun add(index: Int, element: E): Unit\n\n /**\n * Removes an element at the specified [index] from the list.\n *\n * @return the element that has been removed.\n */\n public fun removeAt(index: Int): E\n\n // List Iterators\n override fun listIterator(): MutableListIterator<E>\n\n override fun listIterator(index: Int): MutableListIterator<E>\n\n // View\n override fun subList(fromIndex: Int, toIndex: Int): MutableList<E>\n}\n\n/**\n
* A generic unordered collection of elements that does not support duplicate elements.\n * Methods in this interface support only read-only access to the set;\n * read/write access is supported through the [MutableSet] interface.\n * @param E the type of elements contained in the set. The set is covariant in its element type.\n */\npublic interface Set<out E> : Collection<E> {\n // Query Operations\n\n override val size: Int\n override fun isEmpty(): Boolean\n override fun contains(element: @UnsafeVariance E): Boolean\n override fun iterator(): Iterator<E>\n\n // Bulk Operations\n override fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean\n}\n\n/**\n * A generic unordered collection of elements that does not support duplicate elements, and supports\n * adding and removing elements.\n * @param E the type of elements contained in the set. The mutable set is invariant in its element type.\n */\npublic interface MutableSet<E> : Set<E>,
MutableCollection<E> {\n // Query Operations\n override fun iterator(): MutableIterator<E>\n\n // Modification Operations\n\n /**\n * Adds the specified element to the set.\n *\n * @return `true` if the element has been added, `false` if the element is already contained in the set.\n */\n override fun add(element: E): Boolean\n\n override fun remove(element: E): Boolean\n\n // Bulk Modification Operations\n\n override fun addAll(elements: Collection<E>): Boolean\n override fun removeAll(elements: Collection<E>): Boolean\n override fun retainAll(elements: Collection<E>): Boolean\n override fun clear(): Unit\n}\n\n/**\n * A collection that holds pairs of objects (keys and values) and supports efficiently retrieving\n * the value corresponding to each key. Map keys are unique; the map holds only one value for each key.\n * Methods in this interface support only read-only access to the map; read-write access is supported through\n * the
[MutableMap] interface.\n * @param K the type of map keys. The map is invariant in its key type, as it\n * can accept key as a parameter (of [containsKey] for example) and return it in [keys] set.\n * @param V the type of map values. The map is covariant in its value type.\n */\npublic interface Map<K, out V> {\n // Query Operations\n /**\n * Returns the number of key/value pairs in the map.\n */\n public val size: Int\n\n /**\n * Returns `true` if the map is empty (contains no elements), `false` otherwise.\n */\n public fun isEmpty(): Boolean\n\n /**\n * Returns `true` if the map contains the specified [key].\n */\n public fun containsKey(key: K): Boolean\n\n /**\n * Returns `true` if the map maps one or more keys to the specified [value].\n */\n public fun containsValue(value: @UnsafeVariance V): Boolean\n\n /**\n * Returns the value corresponding to the given [key], or `null` if such a key is not present in

```
 the map.\n     */\n    public operator fun get(key: K): V?\n\n    /**\n     * Returns the value corresponding to the given [key], or [defaultValue] if such a key is not present in the map.\n     *\n     * @since JDK 1.8\n     */\n    @SinceKotlin(\"1.1\")\n    @PlatformDependent\n    public fun getOrDefault(key: K, defaultValue: @UnsafeVariance V): V {\n        // See default implementation in JDK sources\n        throw NotImplementedError()\n    }\n\n    // Views\n    /**\n     * Returns a read-only [Set] of all keys in this map.\n     */\n    public val keys: Set<K>\n\n    /**\n     * Returns a read-only [Collection] of all values in this map. Note that this collection may contain duplicate values.\n     */\n    public val values: Collection<V>\n\n    /**\n     * Returns a read-only [Set] of all key/value pairs in this map.\n     */\n    public val entries: Set<Map.Entry<K, V>>\n\n    /**\n     * Represents a key/value pair held by a [Map].\n     */\n    public interface Entry<out K, out V> {\n        /**\n         * Returns the key of this key/value pair.\n         */\n        public val key: K\n\n        /**\n         * Returns the value of this key/value pair.\n         */\n        public val value: V\n    }\n}\n\n/**\n * A modifiable collection that holds pairs of objects (keys and values) and supports efficiently retrieving\n * the value corresponding to each key. Map keys are unique; the map holds only one value for each key.\n * @param K the type of map keys. The map is invariant in its key type.\n * @param V the type of map values. The mutable map is invariant in its value type.\n */\npublic interface MutableMap<K, V> : Map<K, V> {\n    // Modification Operations\n    /**\n     * Associates the specified [value] with the specified [key] in the map.\n     *\n     * @return the previous value associated with the key, or `null` if the key was not present in the map.\n     */\n    public fun put(key: K, value: V): V?\n\n    /**\n     * Removes the specified key and its corresponding value from this map.\n     *\n     * @return the previous value associated with the key, or `null` if the key was not present in the map.\n     */\n    public fun remove(key: K): V?\n\n    /**\n     * Removes the entry for the specified key only if it is mapped to the specified value.\n     *\n     * @return true if entry was removed\n     */\n    @SinceKotlin(\"1.1\")\n    @PlatformDependent\n    public fun remove(key: K, value: V): Boolean {\n        // See default implementation in JDK sources\n        return true\n    }\n\n    // Bulk Modification Operations\n    /**\n     * Updates this map with key/value pairs from the specified map [from].\n     */\n    public fun putAll(from: Map<out K, V>): Unit\n\n    /**\n     * Removes all elements from this map.\n     */\n    public fun clear(): Unit\n\n    // Views\n    /**\n     * Returns a [MutableSet] of all keys in this map.\n     */\n    override val keys: MutableSet<K>\n\n    /**\n     * Returns a [MutableCollection] of all values in this map. Note that this collection may contain duplicate values.\n     */\n    override val values: MutableCollection<V>\n\n    /**\n     * Returns a [MutableSet] of all key/value pairs in this map.\n     */\n    override val entries: MutableSet<MutableMap.MutableEntry<K, V>>\n\n    /**\n     * Represents a key/value pair held by a [MutableMap].\n     */\n    public interface MutableEntry<K, V> : Map.Entry<K, V> {\n        /**\n         * Changes the value associated with the key of this entry.\n         *\n         * @return the previous value corresponding to the key.\n         */\n        public fun setValue(newValue: V): V\n    }\n}\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin.collections\n\n/** An iterator over a sequence of values of type `Byte`. */\npublic abstract class ByteIterator : Iterator<Byte> {\n    override final fun next() = nextByte()\n\n    /** Returns the next value in the sequence without boxing. */\n    public abstract fun nextByte(): Byte\n}\n\n/** An iterator over a sequence of values of type `Char`. */\npublic abstract class CharIterator : Iterator<Char> {\n    override final fun next() = nextChar()\n\n    /** Returns the next value in the sequence without boxing. */\n    public abstract fun nextChar(): Char\n}\n\n/** An iterator over a sequence of values of type `Short`. */\npublic abstract class ShortIterator : Iterator<Short> {\n    override final fun next() = nextShort()\n\n    /** Returns the next value in the sequence without boxing. */\n    public abstract fun nextShort(): Short\n}\n\n/** An iterator over a sequence of values of type `Int`. */\npublic abstract class IntIterator : Iterator<Int> {\n    override final fun next() = nextInt()\n\n    /** Returns the next value in the sequence without boxing. */\n    public abstract fun nextInt(): Int\n}\n\n/** An iterator over a sequence of values of type `Long`. */\npublic abstract class LongIterator : Iterator<Long> {\n    override final fun next() = nextLong()\n\n    /** Returns the next value in the sequence without boxing. */\n    public abstract fun nextLong(): Long\n}\n\n/** An
```

```
iterator over a sequence of values of type `Float`. */\npublic abstract class FloatIterator : Iterator<Float> {\n override final fun next() = nextFloat()\n\n /** Returns the next value in the sequence without boxing. */\n public abstract fun nextFloat(): Float\n}\n\n/** An iterator over a sequence of values of type `Double`. */\npublic abstract class DoubleIterator : Iterator<Double> {\n override final fun next() = nextDouble()\n\n /** Returns the next value in the sequence without boxing. */\n public abstract fun nextDouble(): Double\n}\n\n/** An iterator over a sequence of values of type `Boolean`. */\npublic abstract
 class BooleanIterator : Iterator<Boolean> {\n override final fun next() = nextBoolean()\n\n /** Returns the next value in the sequence without boxing. */\n public abstract fun nextBoolean(): Boolean\n}\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin.ranges\n\n/**\n * An iterator over a progression of values of type `Char`.\n * @property step the number by which the value is incremented on each step.\n */\ninternal class CharProgressionIterator(first: Char, last: Char, val step: Int) : CharIterator() {\n private val finalElement: Int = last.code\n private var hasNext: Boolean = if (step > 0) first <= last else first >= last\n private var next: Int = if (hasNext) first.code else finalElement\n\n override fun hasNext(): Boolean = hasNext\n\n
 override fun nextChar(): Char {\n val value = next\n if (value == finalElement) {\n if (!hasNext) throw kotlin.NoSuchElementException()\n hasNext = false\n }\n else {\n next += step\n }\n return value.toChar()\n }\n}\n\n/**\n * An iterator over a progression of values of type `Int`.\n * @property step the number by which the value is incremented on each step.\n */\ninternal class IntProgressionIterator(first: Int, last: Int, val step: Int) : IntIterator() {\n private val finalElement: Int = last\n private var hasNext: Boolean = if (step > 0) first <= last else first >= last\n private var next: Int = if (hasNext) first else finalElement\n\n override fun hasNext(): Boolean = hasNext\n\n override fun nextInt(): Int {\n val value = next\n if (value == finalElement) {\n if (!hasNext) throw kotlin.NoSuchElementException()\n hasNext = false\n }\n else
 {\n next += step\n }\n return value\n }\n}\n\n/**\n * An iterator over a progression of values of type `Long`.\n * @property step the number by which the value is incremented on each step.\n */\ninternal class LongProgressionIterator(first: Long, last: Long, val step: Long) : LongIterator() {\n private val finalElement: Long = last\n private var hasNext: Boolean = if (step > 0) first <= last else first >= last\n private var next: Long = if (hasNext) first else finalElement\n\n override fun hasNext(): Boolean = hasNext\n\n override fun nextLong(): Long {\n val value = next\n if (value == finalElement) {\n if (!hasNext) throw kotlin.NoSuchElementException()\n hasNext = false\n }\n else {\n next += step\n }\n return value\n }\n}\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
 Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin.ranges\n\nimport kotlin.internal.getProgressionLastElement\n\n/**\n * A progression of values of type `Char`.\n */\npublic open class CharProgression\n internal constructor\n (\n start: Char,\n
 endInclusive: Char,\n step: Int\n ) : Iterable<Char> {\n init {\n if (step == 0) throw kotlin.IllegalArgumentException(\"Step must be non-zero.\")\n if (step == Int.MIN_VALUE) throw kotlin.IllegalArgumentException(\"Step must be greater than Int.MIN_VALUE to avoid overflow on negation.\")\n }\n\n /**\n * The first element in the progression.\n */\n public val first: Char = start\n\n /**\n * The last element in the progression.\n */\n public val last: Char = getProgressionLastElement(start.code, endInclusive.code, step).toChar()\n\n /**\n * The step of the progression.\n
 */\n public val step: Int = step\n\n override fun iterator(): CharIterator = CharProgressionIterator(first, last, step)\n\n /**\n * Checks if the progression is empty.\n *\n * Progression with a positive step is empty if its first element is greater than the last element.\n * Progression with a negative step is empty if its first element is less than the last element.\n */\n public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last\n\n override fun equals(other: Any?): Boolean =\n other is CharProgression && (isEmpty() && other.isEmpty() ||\n first == other.first && last == other.last && step == other.step)\n\n override fun
```

hashCode(): Int =\n if (isEmpty()) -1 else (31 * (31 * first.code + last.code) + step)\n\n override fun toString(): String = if (step > 0) \"$first..$last step $step\" else \"$first downTo $last step ${-step}\"\n\n companion object {\n /**\n * Creates CharProgression
within the specified bounds of a closed range.\n *\n * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\n * In order to go backwards the [step] must be negative.\n *\n * [step] must be greater than `Int.MIN_VALUE` and not equal to zero.\n */\n public fun fromClosedRange(rangeStart: Char, rangeEnd: Char, step: Int): CharProgression = CharProgression(rangeStart, rangeEnd, step)\n }\n}\n\n/**\n * A progression of values of type `Int`.\n */\npublic open class IntProgression\n internal constructor\n (\n start: Int,\n endInclusive: Int,\n step: Int\n ) : Iterable<Int> {\n init {\n if (step == 0) throw kotlin.IllegalArgumentException(\"Step must be non-zero.\")\n if (step == Int.MIN_VALUE) throw kotlin.IllegalArgumentException(\"Step must be greater than Int.MIN_VALUE to avoid overflow
on negation.\")\n }\n\n /**\n * The first element in the progression.\n */\n public val first: Int = start\n\n /**\n * The last element in the progression.\n */\n public val last: Int = getProgressionLastElement(start, endInclusive, step)\n\n /**\n * The step of the progression.\n */\n public val step: Int = step\n\n override fun iterator(): IntIterator = IntProgressionIterator(first, last, step)\n\n /**\n * Checks if the progression is empty.\n *\n * Progression with a positive step is empty if its first element is greater than the last element.\n * Progression with a negative step is empty if its first element is less than the last element.\n */\n public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last\n\n override fun equals(other: Any?): Boolean =\n other is IntProgression && (isEmpty() && other.isEmpty() ||\n first == other.first && last == other.last && step == other.step)\n\n
override fun hashCode(): Int =\n if (isEmpty()) -1 else (31 * (31 * first + last) + step)\n\n override fun toString(): String = if (step > 0) \"$first..$last step $step\" else \"$first downTo $last step ${-step}\"\n\n companion object {\n /**\n * Creates IntProgression within the specified bounds of a closed range.\n *\n * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\n * In order to go backwards the [step] must be negative.\n *\n * [step] must be greater than `Int.MIN_VALUE` and not equal to zero.\n */\n public fun fromClosedRange(rangeStart: Int, rangeEnd: Int, step: Int): IntProgression = IntProgression(rangeStart, rangeEnd, step)\n }\n}\n\n/**\n * A progression of values of type `Long`.\n */\npublic open class LongProgression\n internal constructor\n (\n start: Long,\n
endInclusive: Long,\n step: Long\n ) : Iterable<Long> {\n init {\n if (step == 0L) throw kotlin.IllegalArgumentException(\"Step must be non-zero.\")\n if (step == Long.MIN_VALUE) throw kotlin.IllegalArgumentException(\"Step must be greater than Long.MIN_VALUE to avoid overflow on negation.\")\n }\n\n /**\n * The first element in the progression.\n */\n public val first: Long = start\n\n /**\n * The last element in the progression.\n */\n public val last: Long = getProgressionLastElement(start, endInclusive, step)\n\n /**\n * The step of the progression.\n */\n public val step: Long = step\n\n override fun iterator(): LongIterator = LongProgressionIterator(first, last, step)\n\n /**\n * Checks if the progression is empty.\n *\n * Progression with a positive step is empty if its first element is greater than the last element.\n * Progression with a negative step is empty if its first element
is less than the last element.\n */\n public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last\n\n override fun equals(other: Any?): Boolean =\n other is LongProgression && (isEmpty() && other.isEmpty() ||\n first == other.first && last == other.last && step == other.step)\n\n override fun hashCode(): Int =\n if (isEmpty()) -1 else (31 * (31 * (first xor (first ushr 32)) + (last xor (last ushr 32))) + (step xor (step ushr 32))).toInt()\n\n override fun toString(): String = if (step > 0) \"$first..$last step $step\" else \"$first downTo $last step ${-step}\"\n\n companion object {\n /**\n * Creates LongProgression within the specified bounds of a closed range.\n *\n * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\n * In order to go backwards the [step] must be negative.\n *\n * [step]

must be greater than `Long.MIN_VALUE` and not equal to zero.\n */\n public fun fromClosedRange(rangeStart: Long, rangeEnd: Long, step: Long): LongProgression = LongProgression(rangeStart, rangeEnd, step)\n }\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.ranges\n\n/**\n * Represents a range of values (for example, numbers or characters).\n * See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/ranges.html) for more information.\n */\npublic interface ClosedRange<T: Comparable<T>> {\n /**\n * The minimum value in the range.\n */\n public val start: T\n\n /**\n * The maximum value in the range (inclusive).\n */\n public val endInclusive: T\n\n /**\n * Checks whether the specified [value] belongs to the range.\n */\n public operator fun contains(value: T): Boolean = value >= start && value <= endInclusive\n\n /**\n * Checks whether the range is empty.\n *\n * The range is empty if its start value is greater than the end value.\n */\n public fun isEmpty(): Boolean = start > endInclusive\n}\n","/*\n * Copyright 2010-2015 JetBrains s.r.o.\n *\n * Licensed under the Apache License, Version 2.0 (the \"License\");\n * you may not use this file except in compliance with the License.\n * You may obtain a copy of the License at\n *\n * http://www.apache.org/licenses/LICENSE-2.0\n *\n * Unless required by applicable law or agreed to in writing, software\n * distributed under the License is distributed on an \"AS IS\" BASIS,\n * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\n * See the License for the specific language governing permissions and\n * limitations under the License.\n */\n\npackage kotlin\n\n/**\n * The type with only one value: the `Unit` object.
This type corresponds to the `void` type in Java.\n */\npublic object Unit {\n override fun toString() = \"kotlin.Unit\"\n}\n","/*\n * Copyright 2010-2015 JetBrains s.r.o.\n *\n * Licensed under the Apache License, Version 2.0 (the \"License\");\n * you may not use this file except in compliance with the License.\n * You may obtain a copy of the License at\n *\n * http://www.apache.org/licenses/LICENSE-2.0\n *\n * Unless required by applicable law or agreed to in writing, software\n * distributed under the License is distributed on an \"AS IS\" BASIS,\n * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\n * See the License for the specific language governing permissions and\n * limitations under the License.\n */\n\npackage kotlin.annotation\n\nimport kotlin.annotation.AnnotationTarget.*\n\n/**\n * Contains the list of code elements which are the possible annotation targets\n */\npublic enum class AnnotationTarget {\n /** Class, interface or object,
annotation class is also included */\n CLASS,\n /** Annotation class only */\n ANNOTATION_CLASS,\n /** Generic type parameter */\n TYPE_PARAMETER,\n /** Property */\n PROPERTY,\n /** Field, including property's backing field */\n FIELD,\n /** Local variable */\n LOCAL_VARIABLE,\n /** Value parameter of a function or a constructor */\n VALUE_PARAMETER,\n /** Constructor only (primary or secondary) */\n CONSTRUCTOR,\n /** Function (constructors are not included) */\n FUNCTION,\n /** Property getter only */\n PROPERTY_GETTER,\n /** Property setter only */\n PROPERTY_SETTER,\n /** Type usage */\n TYPE,\n /** Any expression */\n EXPRESSION,\n /** File */\n FILE,\n /** Type alias */\n @SinceKotlin(\"1.1\")\n TYPEALIAS\n}\n\n/**\n * Contains the list of possible annotation's retentions.\n *\n * Determines how an annotation is stored in binary output.\n */\npublic enum class AnnotationRetention {\n /**
Annotation isn't stored in binary output */\n SOURCE,\n /** Annotation is stored in binary output, but invisible for reflection */\n BINARY,\n /** Annotation is stored in binary output and visible for reflection (default retention) */\n RUNTIME\n}\n\n/**\n * This meta-annotation indicates the kinds of code elements which are possible targets of an annotation.\n *\n * If the target meta-annotation is not present on an annotation declaration, the annotation is applicable to the following elements:\n * [CLASS], [PROPERTY], [FIELD], [LOCAL_VARIABLE], [VALUE_PARAMETER], [CONSTRUCTOR], [FUNCTION], [PROPERTY_GETTER], [PROPERTY_SETTER].\n *\n * @property allowedTargets list of allowed annotation targets\n */\n@Target(AnnotationTarget.ANNOTATION_CLASS)\n@MustBeDocumented\npublic annotation class

Target(vararg val allowedTargets: AnnotationTarget)\n\n/**\n * This meta-annotation determines whether an annotation is stored in binary output and visible for reflection. By default, both
are true.\n *\n * @property value necessary annotation retention (RUNTIME, BINARY or SOURCE)\n */\n@Target(AnnotationTarget.ANNOTATION_CLASS)\npublic annotation class Retention(val value: AnnotationRetention = AnnotationRetention.RUNTIME)\n\n/**\n * This meta-annotation determines that an annotation is applicable twice or more on a single code element\n */\n@Target(AnnotationTarget.ANNOTATION_CLASS)\npublic annotation class Repeatable\n\n/**\n * This meta-annotation determines that an annotation is a part of public API and therefore should be included in the generated\n * documentation for the element to which the annotation is applied.\n */\n@Target(AnnotationTarget.ANNOTATION_CLASS)\npublic annotation class MustBeDocumented\n","/*\n * Copyright 2010-2016 JetBrains s.r.o.\n *\n * Licensed under the Apache License, Version 2.0 (the \"License\");\n * you may not use this file except in compliance with the License.\n * You may obtain a copy of the License at\n *\n * http://www.apache.org/licenses/LICENSE-2.0\n
*\n * Unless required by applicable law or agreed to in writing, software\n * distributed under the License is distributed on an \"AS IS\" BASIS,\n * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\n * See the License for the specific language governing permissions and\n * limitations under the License.\n */\n\npackage kotlin.internal\n\n/**\n * Specifies that the corresponding type parameter is not used for unsafe operations such as casts or 'is' checks\n * That means it's completely safe to use generic types as argument for such parameter.\n */\n@Target(AnnotationTarget.TYPE_PARAMETER)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class PureReifiable\n\n/**\n * Specifies that the corresponding built-in method exists depending on platform.\n * Current implementation for JVM looks whether method with same JVM descriptor exists in the module JDK.\n * For example MutableMap.remove(K, V) available only if corresponding\n *
method 'java/util/Map.remove(Ljava/lang/Object;Ljava/lang/Object;)Z' is defined in JDK (i.e. for major versions >= 8)\n */\n@Target(AnnotationTarget.FUNCTION)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class PlatformDependent\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.internal\n\n// a mod b (in arithmetical sense)\nprivate fun mod(a: Int, b: Int): Int {\n    val mod = a % b\n    return if (mod >= 0) mod else mod + b\n}\n\nprivate fun mod(a: Long, b: Long): Long {\n    val mod = a % b\n    return if (mod >= 0) mod else mod + b\n}\n\n// (a - b) mod c\nprivate fun differenceModulo(a: Int, b: Int, c: Int): Int {\n    return mod(mod(a, c) - mod(b, c), c)\n}\n\nprivate fun differenceModulo(a: Long, b: Long, c: Long): Long {\n    return mod(mod(a, c) - mod(b, c), c)\n}\n\n/**\n * Calculates
the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in the range\n * from [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative\n * [step].\n *\n * No validation on passed parameters is performed. The given parameters should satisfy the condition:\n *\n * - either `step > 0` and `start <= end`,\n * - or `step < 0` and `start >= end`.\n *\n * @param start first element of the progression\n * @param end ending bound for the progression\n * @param step increment, or difference of successive elements in the progression\n * @return the final element of the progression\n * @suppress\n */\n@PublishedApi\ninternal fun getProgressionLastElement(start: Int, end: Int, step: Int): Int = when {\n    step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step)\n    step < 0 -> if (start <= end) end else end + differenceModulo(start, end, -step)\n    else -> throw kotlin.IllegalArgumentException(\"Step
is zero.\")\n}\n\n/**\n * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in the range\n * from [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative\n * [step].\n *\n * No validation on passed parameters is performed. The given parameters should satisfy the condition:\n *\n * - either `step > 0` and `start <= end`,\n * - or `step < 0` and `start >= end`.\n *\n * @param start first element of the progression\n * @param end ending bound for the progression\n * @param step increment, or difference of successive elements in the progression\n * @return the final element of the progression\n

```
* @suppress\n */\n@PublishedApi\ninternal fun getProgressionLastElement(start: Long, end: Long, step: Long): Long = when {\n    step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step)\n    step < 0 -> if (start <= end) end else end + differenceModulo(start,
 end, -step)\n    else -> throw kotlin.IllegalArgumentException(\"Step is zero.\")\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@JsName(\"arrayIterator\")\ninternal fun arrayIterator(array: dynamic, type: String?) = when (type) {\n    null -> {\n        val arr: Array<dynamic> = array\n        object : Iterator<dynamic> {\n            var index = 0\n            override fun hasNext() = index < arr.size\n
        override fun next() = if (index < arr.size) arr[index++] else throw NoSuchElementException(\"$index\")\n
}\n    }\n    \"BooleanArray\" -> booleanArrayIterator(array)\n    \"ByteArray\" -> byteArrayIterator(array)\n    \"ShortArray\" -> shortArrayIterator(array)\n    \"CharArray\" -> charArrayIterator(array)\n    \"IntArray\" -> intArrayIterator(array)\n    \"LongArray\" -> longArrayIterator(array)\n
    \"FloatArray\" -> floatArrayIterator(array)\n    \"DoubleArray\" -> doubleArrayIterator(array)\n    else -> throw IllegalStateException(\"Unsupported type argument for arrayIterator: $type\")\n}\n\n@JsName(\"booleanArrayIterator\")\ninternal fun booleanArrayIterator(array: BooleanArray) = object : BooleanIterator() {\n    var index = 0\n    override fun hasNext() = index < array.size\n    override fun nextBoolean() = if (index < array.size) array[index++] else throw NoSuchElementException(\"$index\")\n}\n\n@JsName(\"byteArrayIterator\")\ninternal fun byteArrayIterator(array: ByteArray) = object : ByteIterator() {\n    var index = 0\n    override fun hasNext() = index < array.size\n    override fun nextByte() = if (index < array.size) array[index++] else throw NoSuchElementException(\"$index\")\n}\n\n@JsName(\"shortArrayIterator\")\ninternal fun shortArrayIterator(array: ShortArray) = object : ShortIterator() {\n    var index = 0\n    override fun hasNext() = index < array.size\n
    override fun nextShort() = if (index < array.size) array[index++] else throw NoSuchElementException(\"$index\")\n}\n\n@JsName(\"charArrayIterator\")\ninternal fun charArrayIterator(array: CharArray) = object : CharIterator() {\n    var index = 0\n    override fun hasNext() = index < array.size\n    override fun nextChar() = if (index < array.size) array[index++] else throw NoSuchElementException(\"$index\")\n}\n\n@JsName(\"intArrayIterator\")\ninternal fun intArrayIterator(array: IntArray) = object : IntIterator() {\n    var index = 0\n    override fun hasNext() = index < array.size\n    override fun nextInt() = if (index < array.size) array[index++] else throw NoSuchElementException(\"$index\")\n}\n\n@JsName(\"floatArrayIterator\")\ninternal fun floatArrayIterator(array: FloatArray) = object : FloatIterator() {\n    var index = 0\n    override fun hasNext() = index < array.size\n    override fun nextFloat() = if (index < array.size) array[index++] else throw NoSuchElementException(\"$index\")\n}\n\n@JsName(\"doubleArrayIterator\")\ninternal
 fun doubleArrayIterator(array: DoubleArray) = object : DoubleIterator() {\n    var index = 0\n    override fun hasNext() = index < array.size\n    override fun nextDouble() = if (index < array.size) array[index++] else throw NoSuchElementException(\"$index\")\n}\n\n@JsName(\"longArrayIterator\")\ninternal fun longArrayIterator(array: LongArray) = object : LongIterator() {\n    var index = 0\n    override fun hasNext() = index < array.size\n
override fun nextLong() = if (index < array.size) array[index++] else throw NoSuchElementException(\"$index\")\n}\n\n@JsName(\"PropertyMetadata\")\ninternal class PropertyMetadata(@JsName(\"callableName\") val name: String)\n\n@JsName(\"noWhenBranchMatched\")\ninternal fun noWhenBranchMatched(): Nothing = throw NoWhenBranchMatchedException()\n\n@JsName(\"subSequence\")\ninternal fun subSequence(c: CharSequence, startIndex: Int, endIndex: Int): CharSequence {\n    if (c is String) {\n
        return c.substring(startIndex, endIndex)\n    } else {\n        return c.asDynamic().`subSequence_vux9f0$`(startIndex, endIndex)\n    }\n}\n\n@JsName(\"captureStack\")\ninternal fun captureStack(@Suppress(\"UNUSED_PARAMETER\") baseClass: JsClass<in Throwable>, instance: Throwable) {\n    if (js(\"Error\").captureStackTrace) {\n        // Using uncropped stack traces due to KT-37563.\n        // Precise
```

stack traces are implemented in JS IR compiler and stdlib\n js(\"Error\").captureStackTrace(instance);\n } else {\n instance.asDynamic().stack = js(\"new Error()\").stack;\n }\n}\n\n@JsName(\"newThrowable\")\ninternal fun newThrowable(message: String?, cause: Throwable?): Throwable {\n val throwable = js(\"new Error()\")\n throwable.message = if (jsTypeOf(message) == \"undefined\") {\n if (cause != null) cause.toString() else null\n } else {\n message\n }\n throwable.cause = cause\n throwable.name = \"Throwable\"\n return throwable\n}\n\n@JsName(\"BoxedChar\")\ninternal
class BoxedChar(val c: Int) : Comparable<Int> {\n override fun equals(other: Any?): Boolean {\n return other is BoxedChar && c == other.c\n }\n\n override fun hashCode(): Int {\n return c\n }\n\n override fun toString(): String {\n return js(\"this.c\").unsafeCast<Char>().toString()\n }\n\n override fun compareTo(other: Int): Int {\n return js(\"this.c - other\").unsafeCast<Int>()\n }\n\n @JsName(\"valueOf\")\n public fun valueOf(): Int {\n return c\n }\n}\n\n@kotlin.internal.InlineOnly\ninternal inline fun <T> concat(args: Array<T>): T {\n val typed = js(\"Array\")(args.size)\n for (i in args.indices) {\n val arr = args[i]\n if (arr !is Array<*>) {\n typed[i] = js(\"[]\").slice.call(arr)\n } else {\n typed[i] = arr\n }\n }\n return js(\"[]\").concat.apply(js(\"[]\"), typed);\n}\n\n/** Concat regular Array's and
TypedArray's into an Array.\n
*/\n@PublishedApi\n@JsName(\"arrayConcat\")\n@Suppress(\"UNUSED_PARAMETER\")\ninternal fun <T> arrayConcat(a: T, b: T): T {\n return concat(js(\"arguments\"))\n}\n\n/** Concat primitive arrays. Main use: prepare vararg arguments.\n * For compatibility with 1.1.0 the arguments may be a mixture of Array's and TypedArray's.\n *\n * If the first argument is TypedArray (Byte-, Short-, Char-, Int-, Float-, and DoubleArray) returns a TypedArray, otherwise an Array.\n * If the first argument has the $type$ property (Boolean-, Char-, and LongArray) copy its value to result.$type$.\n * If the first argument is a regular Array without the $type$ property default to arrayConcat.\n
*/\n@PublishedApi\n@JsName(\"primitiveArrayConcat\")\n@Suppress(\"UNUSED_PARAMETER\")\ninternal fun <T> primitiveArrayConcat(a: T, b: T): T {\n val args: Array<T> = js(\"arguments\")\n if (a is Array<*> && a.asDynamic().`$type$` === undefined) {\n return concat(args)\n } else {\n var size = 0\n for (i in args.indices) {\n size += args[i].asDynamic().length as Int\n }\n val result = js(\"new a.constructor(size)\")\n kotlin.copyArrayType(a, result)\n size = 0\n for (i in args.indices) {\n val arr = args[i].asDynamic()\n for (j in 0 until arr.length) {\n result[size++] = arr[j]\n }\n }\n return result\n}\n\n@JsName(\"booleanArrayOf\")\ninternal fun booleanArrayOf() = withType(\"BooleanArray\", js(\"[].slice.call(arguments)\"))\n\n@JsName(\"charArrayOf\")
// The arguments have to be slice'd here because of Rhino (see KT-16974)\ninternal fun charArrayOf() = withType(\"CharArray\", js(\"new
Uint16Array([].slice.call(arguments))\"))\n\n@JsName(\"longArrayOf\")\ninternal fun longArrayOf() = withType(\"LongArray\",
js(\"[].slice.call(arguments)\"))\n\n@JsName(\"withType\")\n@kotlin.internal.InlineOnly\ninternal inline fun withType(type:
String, array: dynamic): dynamic {\n array.`$type$` = type\n return array\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n/**\n * Function corresponding to JavaScript's `typeof` operator\n
*/\n@kotlin.internal.InlineOnly\n@Suppress(\"UNUSED_PARAMETER\")\npublic inline fun jsTypeOf(a: Any?): String = js(\"typeof a\")\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:Suppress(\"UNUSED_PARAMETER\",
\"NOTHING_TO_INLINE\")\n\npackage kotlin\n\n/**\n * Returns an empty array of the specified type [T].\n */\npublic inline fun <T> emptyArray(): Array<T> = js(\"[]\")\n\n@library\npublic fun <T> arrayOf(vararg elements:

T): Array<T> = definedExternally\n\n@library\npublic fun doubleArrayOf(vararg elements: Double): DoubleArray = definedExternally\n\n@library\npublic fun floatArrayOf(vararg elements: Float): FloatArray = definedExternally\n\n@library\npublic fun longArrayOf(vararg elements: Long): LongArray = definedExternally\n\n@library\npublic fun intArrayOf(vararg elements: Int): IntArray = definedExternally\n\n@library\npublic fun charArrayOf(vararg elements: Char): CharArray = definedExternally\n\n@library\npublic fun shortArrayOf(vararg elements: Short): ShortArray = definedExternally\n\n@library\npublic fun byteArrayOf(vararg elements: Byte): ByteArray = definedExternally\n\n@library\npublic fun booleanArrayOf(vararg elements: Boolean): BooleanArray = definedExternally\n\n/**\n * Creates a new instance of the [Lazy] that uses the specified initialization function [initializer].\n */\npublic actual fun <T> lazy(initializer: () -> T): Lazy<T> = UnsafeLazyImpl(initializer)\n\n/**\n * Creates a new instance of the [Lazy] that uses the specified initialization function [initializer].\n *\n * The [mode] parameter is ignored. */\npublic actual fun <T> lazy(mode: LazyThreadSafetyMode, initializer: () -> T): Lazy<T> = UnsafeLazyImpl(initializer)\n\n/**\n * Creates a new instance of the [Lazy] that uses the specified initialization function [initializer].\n *\n * The [lock] parameter is ignored.\n */\npublic actual fun <T> lazy(lock: Any?, initializer: () -> T): Lazy<T> = UnsafeLazyImpl(initializer)\n\n\ninternal fun fillFrom(src: dynamic, dst: dynamic): dynamic {\n    val srcLen: Int = src.length\n    val dstLen: Int = dst.length\n    var index: Int = 0\n    while (index < srcLen && index < dstLen) dst[index] = src[index++]\n    return dst\n}\n\n\ninternal fun arrayCopyResize(source: dynamic, newSize: Int, defaultValue: Any?): dynamic {\n    val result = source.slice(0, newSize)\n    copyArrayType(source, result)\n    var index: Int = source.length\n    if (newSize > index) {\n        result.length = newSize\n        while (index < newSize) result[index++] = defaultValue\n    }\n    return result\n}\n\ninternal fun <T> arrayPlusCollection(array: dynamic, collection: Collection<T>): dynamic {\n    val result = array.slice()\n    result.length += collection.size\n    copyArrayType(array, result)\n    var index: Int = array.length\n    for (element in collection) result[index++] = element\n    return result\n}\n\ninternal fun <T> fillFromCollection(dst: dynamic, startIndex: Int, collection: Collection<T>): dynamic {\n    var index = startIndex\n    for (element in collection) dst[index++] = element\n    return dst\n}\n\ninternal inline fun copyArrayType(from: dynamic, to: dynamic) {\n    if (from.`$type$` !== undefined) {\n        to.`$type$` = from.`$type$`\n    }\n}\n\ninternal inline fun jsIsType(obj: dynamic, jsClass: dynamic) = js(\"Kotlin\").isType(obj, jsClass)","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\n/**\n * Creates a Char with the specified [code].\n *\n * @sample samples.text.Chars.charFromCode\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic actual inline fun Char(code: UShort): Char {\n    return code.toInt().toChar()\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines\n\nimport kotlin.coroutines.intrinsics.COROUTINE_SUSPENDED\n\n@SinceKotlin(\"1.3\")\n@JsName(\"CoroutineImpl\")\ninternal abstract class CoroutineImpl(private val resultContinuation: Continuation<Any?>) : Continuation<Any?> {\n    protected var state = 0\n    protected var exceptionState = 0\n    protected var result: Any? = null\n    protected var exception: Throwable? = null\n    protected var finallyPath: Array<Int>? = null\n\n    public override val context: CoroutineContext = resultContinuation.context\n\n    private var intercepted_: Continuation<Any?>? = null\n\n    public fun intercepted(): Continuation<Any?> =\n        intercepted_\n            ?: (context[ContinuationInterceptor]?.interceptContinuation(this) ?: this)\n                .also { intercepted_ = it }\n\n    override fun resumeWith(result: Result<Any?>) {\n        var current = this\n        var currentResult: Any? = result.getOrNull()\n        var currentException: Throwable? = result.exceptionOrNull()\n\n        // This loop unrolls recursion in current.resumeWith(param) to make saner and shorter stack traces on resume\n        while (true) {\n            with(current) {\n                val completion = resultContinuation\n\n                // Set result and exception fields in the current continuation\n                if (currentException

```
== null) {\n                this.result = currentResult\n            } else {\n                state = exceptionState\n
    exception = currentException\n            }\n\n            try {\n                val outcome = doResume()\n
   if (outcome === COROUTINE_SUSPENDED) return\n                currentResult = outcome\n
currentException = null\n            } catch (exception: dynamic) { // Catch all exceptions\n
currentResult = null\n                currentException = exception.unsafeCast<Throwable>()\n            }\n\n
releaseIntercepted() // this state machine instance is terminating\n\n            if (completion is CoroutineImpl) {\n
            // unrolling recursion via loop\n                current = completion\n            } else {\n                // top-
level completion reached -- invoke and return\n                currentException?.let
 {\n                completion.resumeWithException(it)\n                } ?: completion.resume(currentResult)\n
        return\n            }\n        }\n    }\n\n    private fun releaseIntercepted() {\n        val intercepted =
intercepted_\n        if (intercepted != null && intercepted !== this) {\n
context[ContinuationInterceptor]!!.releaseInterceptedContinuation(intercepted)\n        }\n        this.intercepted_ =
CompletedContinuation // just in case\n    }\n\n    protected abstract fun doResume(): Any?\n}\n\ninternal object
CompletedContinuation : Continuation<Any?> {\n    override val context: CoroutineContext\n        get() =
error(\"This continuation is already complete\")\n\n    override fun resumeWith(result: Result<Any?>) {\n
error(\"This continuation is already complete\")\n    }\n\n    override fun toString(): String = \"This continuation is
already complete\"\n}\n","/*\n * Copyright 2010-2018 JetBrains
 s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\n@file:Suppress(\"UNCHECKED_CAST\",
\"RedundantVisibilityModifier\")\n\npackage kotlin\n\nimport kotlin.contracts.*\nimport
kotlin.internal.InlineOnly\nimport kotlin.jvm.JvmField\nimport kotlin.jvm.JvmInline\nimport
kotlin.jvm.JvmName\n\n/**\n * A discriminated union that encapsulates a successful outcome with a value of type
[T]\n * or a failure with an arbitrary [Throwable] exception.\n */\n@SinceKotlin(\"1.3\")\n@JvmInline\npublic
value class Result<out T> @PublishedApi internal constructor(\n    @PublishedApi\n    internal val value: Any?\n) :
Serializable {\n    // discovery\n\n    /**\n     * Returns `true` if this instance represents a successful outcome.\n     *
In this case [isFailure] returns `false`.\n     */\n    public val isSuccess: Boolean get() = value !is Failure\n\n    /**\n
* Returns
 `true` if this instance represents a failed outcome.\n     * In this case [isSuccess] returns `false`.\n     */\n    public val
isFailure: Boolean get() = value is Failure\n\n    // value & exception retrieval\n\n    /**\n     * Returns the
encapsulated value if this instance represents [success][Result.isSuccess] or `null`\n     * if it is
[failure][Result.isFailure].\n     *\n     * This function is a shorthand for `getOrElse { null }` (see [getOrElse]) or\n
* `fold(onSuccess = { it }, onFailure = { null })` (see [fold]).\n     */\n    @InlineOnly\n    public inline fun
getOrNull(): T? =\n        when {\n            isFailure -> null\n            else -> value as T\n        }\n\n    /**\n     *
Returns the encapsulated [Throwable] exception if this instance represents [failure][isFailure] or `null`\n     * if it is
[success][isSuccess].\n     *\n     * This function is a shorthand for `fold(onSuccess = { null }, onFailure = { it })`
(see [fold]).\n     */\n    public fun exceptionOrNull():
 Throwable? =\n        when (value) {\n            is Failure -> value.exception\n            else -> null\n        }\n\n    /**\n
* Returns a string `Success(v)` if this instance represents [success][Result.isSuccess]\n     * where `v` is a string
representation of the value or a string `Failure(x)` if\n     * it is [failure][isFailure] where `x` is a string
representation of the exception.\n     */\n    public override fun toString(): String =\n        when (value) {\n            is
Failure -> value.toString() // \"Failure($exception)\"\n            else -> \"Success($value)\"\n        }\n\n    // companion
with constructors\n\n    /**\n     * Companion object for [Result] class that contains its constructor functions\n     *
[success] and [failure].\n     */\n    public companion object {\n        /**\n         * Returns an instance that
encapsulates the given [value] as successful value.\n         */\n
@Suppress(\"INAPPLICABLE_JVM_NAME\")\n        @InlineOnly\n
        @JvmName(\"success\")\n        public inline fun <T> success(value: T): Result<T> =\n
Result(value)\n\n        /**\n         * Returns an instance that encapsulates the given [Throwable] [exception] as
failure.\n         */\n        @Suppress(\"INAPPLICABLE_JVM_NAME\")\n        @InlineOnly\n
```

@JvmName(\"failure\")\n public inline fun <T> failure(exception: Throwable): Result<T> =\n Result(createFailure(exception))\n }\n\n internal class Failure(\n @JvmField\n val exception: Throwable\n ) : Serializable {\n override fun equals(other: Any?): Boolean = other is Failure && exception == other.exception\n override fun hashCode(): Int = exception.hashCode()\n override fun toString(): String = \"Failure($exception)\"\n }\n}\n\n/**\n * Creates an instance of internal marker [Result.Failure] class to\n * make sure that this class is not exposed in ABI.\n */\n@PublishedApi\n@SinceKotlin(\"1.3\")\ninternal fun createFailure(exception: Throwable): Any =\n Result.Failure(exception)\n\n/**\n * Throws exception if the result is failure. This internal function minimizes\n * inlined bytecode for [getOrThrow] and makes sure that in the future we can\n * add some exception-augmenting logic here (if needed).\n */\n@PublishedApi\n@SinceKotlin(\"1.3\")\ninternal fun Result<*>.throwOnFailure() {\n if (value is Result.Failure) throw value.exception\n}\n\n/**\n * Calls the specified function [block] and returns its encapsulated result if invocation was successful,\n * catching any [Throwable] exception that was thrown from the [block] function execution and encapsulating it as a failure.\n */\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <R> runCatching(block: () -> R): Result<R> {\n return try {\n Result.success(block())\n } catch (e: Throwable) {\n Result.failure(e)\n }\n}\n\n/**\n * Calls the specified function [block] with `this` value as its receiver and returns
its encapsulated result if invocation was successful,\n * catching any [Throwable] exception that was thrown from the [block] function execution and encapsulating it as a failure.\n */\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <T, R> T.runCatching(block: T.() -> R): Result<R> {\n return try {\n Result.success(block())\n } catch (e: Throwable) {\n Result.failure(e)\n }\n}\n\n// -- extensions ---\n\n/**\n * Returns the encapsulated value if this instance represents [success][Result.isSuccess] or throws the encapsulated [Throwable] exception\n * if it is [failure][Result.isFailure].\n *\n * This function is a shorthand for `getOrElse { throw it }` (see [getOrElse]).\n */\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <T> Result<T>.getOrThrow(): T {\n throwOnFailure()\n return value as T\n}\n\n/**\n * Returns the encapsulated value if this instance represents [success][Result.isSuccess] or the\n * result of [onFailure] function for the
encapsulated [Throwable] exception if it is [failure][Result.isFailure].\n *\n * Note, that this function rethrows any [Throwable] exception thrown by [onFailure] function.\n *\n * This function is a shorthand for `fold(onSuccess = { it }, onFailure = onFailure)` (see [fold]).\n */\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <R, T : R> Result<T>.getOrElse(onFailure: (exception: Throwable) -> R): R {\n contract {\n callsInPlace(onFailure, InvocationKind.AT_MOST_ONCE)\n }\n return when (val exception = exceptionOrNull()) {\n null -> value as T\n else -> onFailure(exception)\n }\n}\n\n/**\n * Returns the encapsulated value if this instance represents [success][Result.isSuccess] or the\n * [defaultValue] if it is [failure][Result.isFailure].\n *\n * This function is a shorthand for `getOrElse { defaultValue }` (see [getOrElse]).\n */\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <R, T : R> Result<T>.getOrDefault(defaultValue: R): R {\n
if (isFailure) return defaultValue\n return value as T\n}\n\n/**\n * Returns the result of [onSuccess] for the encapsulated value if this instance represents [success][Result.isSuccess]\n * or the result of [onFailure] function for the encapsulated [Throwable] exception if it is [failure][Result.isFailure].\n *\n * Note, that this function rethrows any [Throwable] exception thrown by [onSuccess] or by [onFailure] function.\n */\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <R, T> Result<T>.fold(\n onSuccess: (value: T) -> R,\n onFailure: (exception: Throwable) -> R\n): R {\n contract {\n callsInPlace(onSuccess, InvocationKind.AT_MOST_ONCE)\n callsInPlace(onFailure, InvocationKind.AT_MOST_ONCE)\n }\n return when (val exception = exceptionOrNull()) {\n null -> onSuccess(value as T)\n else -> onFailure(exception)\n }\n}\n\n// transformation\n\n/**\n * Returns the encapsulated result of the given [transform] function applied to the
encapsulated value\n * if this instance represents [success][Result.isSuccess] or the\n * original encapsulated [Throwable] exception if it is [failure][Result.isFailure].\n *\n * Note, that this function rethrows any [Throwable] exception thrown by [transform] function.\n * See [mapCatching] for an alternative that encapsulates exceptions.\n

```
*/\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <R, T> Result<T>.map(transform: (value: T) -> R): Result<R> {\n    contract {\n        callsInPlace(transform, InvocationKind.AT_MOST_ONCE)\n    }\n    return when {\n        isSuccess -> Result.success(transform(value as T))\n        else -> Result(value)\n    }\n}\n\n/**\n * Returns the encapsulated result of the given [transform] function applied to the encapsulated value\n * if this instance represents [success][Result.isSuccess] or the\n * original encapsulated [Throwable] exception if it is [failure][Result.isFailure].\n *\n * This function catches any [Throwable] exception thrown
 by [transform] function and encapsulates it as a failure.\n * See [map] for an alternative that rethrows exceptions from `transform` function.\n */\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <R, T> Result<T>.mapCatching(transform: (value: T) -> R): Result<R> {\n    return when {\n        isSuccess -> runCatching { transform(value as T) }\n        else -> Result(value)\n    }\n}\n\n/**\n * Returns the encapsulated result of the given [transform] function applied to the encapsulated [Throwable] exception\n * if this instance represents [failure][Result.isFailure] or the\n * original encapsulated value if it is [success][Result.isSuccess].\n *\n * Note, that this function rethrows any [Throwable] exception thrown by [transform] function.\n * See [recoverCatching] for an alternative that encapsulates exceptions.\n */\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <R, T : R> Result<T>.recover(transform: (exception: Throwable) -> R): Result<R> {\n    contract {\n        callsInPlace(transform,
 InvocationKind.AT_MOST_ONCE)\n    }\n    return when (val exception = exceptionOrNull()) {\n        null -> this\n        else -> Result.success(transform(exception))\n    }\n}\n\n/**\n * Returns the encapsulated result of the given [transform] function applied to the encapsulated [Throwable] exception\n * if this instance represents [failure][Result.isFailure] or the\n * original encapsulated value if it is [success][Result.isSuccess].\n *\n * This function catches any [Throwable] exception thrown by [transform] function and encapsulates it as a failure.\n * See [recover] for an alternative that rethrows exceptions.\n */\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <R, T : R> Result<T>.recoverCatching(transform: (exception: Throwable) -> R): Result<R> {\n    return when (val exception = exceptionOrNull()) {\n        null -> this\n        else -> runCatching { transform(exception) }\n    }\n}\n\n// \"peek\" onto value/exception and pipe\n\n/**\n * Performs
 the given [action] on the encapsulated [Throwable] exception if this instance represents [failure][Result.isFailure].\n * Returns the original `Result` unchanged.\n */\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <T> Result<T>.onFailure(action: (exception: Throwable) -> Unit): Result<T> {\n    contract {\n        callsInPlace(action, InvocationKind.AT_MOST_ONCE)\n    }\n    exceptionOrNull()?.let { action(it) }\n    return this\n}\n\n/**\n * Performs the given [action] on the encapsulated value if this instance represents [success][Result.isSuccess].\n * Returns the original `Result` unchanged.\n */\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <T> Result<T>.onSuccess(action: (value: T) -> Unit): Result<T> {\n    contract {\n        callsInPlace(action, InvocationKind.AT_MOST_ONCE)\n    }\n    if (isSuccess) action(value as T)\n    return this\n}\n\n// ----------
--\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines\n\nimport kotlin.contracts.*\nimport kotlin.coroutines.intrinsics.*\nimport kotlin.internal.InlineOnly\n\n/**\n * Interface representing a continuation after a suspension point that returns a value of type `T`.\n */\n@SinceKotlin(\"1.3\")\npublic interface Continuation<in T> {\n    /**\n     * The context of the coroutine that corresponds to this continuation.\n     */\n    public val context: CoroutineContext\n\n    /**\n     * Resumes the execution of the corresponding coroutine passing a successful or failed [result] as the\n     * return value of the last suspension point.\n     */\n    public fun resumeWith(result: Result<T>)\n}\n\n/**\n * Classes and interfaces marked with this annotation are restricted when used as receivers for extension\n * `suspend` functions. These `suspend` extensions can only invoke other member or extension
 `suspend` functions on this particular\n * receiver and are restricted from calling arbitrary suspension functions.\n */\n@SinceKotlin(\"1.3\")\n@Target(AnnotationTarget.CLASS)\n@Retention(AnnotationRetention.BINARY)\npublic annotation class RestrictsSuspension\n\n/**\n * Resumes the execution of the corresponding coroutine passing [value] as the return value of the last suspension point.\n */\n@SinceKotlin(\"1.3\")\n@InlineOnly\npublic inline fun <T> Continuation<T>.resume(value: T): Unit =\n    resumeWith(Result.success(value))\n\n/**\n * Resumes the
```

execution of the corresponding coroutine so that the [exception] is re-thrown right after the\n * last suspension point.\n */\n@SinceKotlin(\"1.3\")\n@InlineOnly\npublic inline fun <T> Continuation<T>.resumeWithException(exception: Throwable): Unit =\n resumeWith(Result.failure(exception))\n\n\n/**\n * Creates a [Continuation] instance with the given [context] and implementation of [resumeWith] method.\n */\n@SinceKotlin(\"1.3\")\n@InlineOnly\npublic inline fun <T> Continuation(\n context: CoroutineContext,\n crossinline resumeWith: (Result<T>) -> Unit\n): Continuation<T> =\n object : Continuation<T> {\n override val context: CoroutineContext\n get() = context\n\n override fun resumeWith(result: Result<T>) =\n resumeWith(result)\n }\n\n/**\n * Creates a coroutine without a receiver and with result type [T].\n * This function creates a new, fresh instance of suspendable computation every time it is invoked.\n *\n * To start executing the created coroutine, invoke `resume(Unit)` on the returned [Continuation] instance.\n * The [completion] continuation is invoked when the coroutine completes with a result or an exception.\n * Subsequent invocation of any resume function on the resulting continuation will produce an [IllegalStateException].\n */\n@SinceKotlin(\"1.3\")\n@Suppress(\"UNCHECKED_CAST\")\npublic fun <T> (suspend () -> T).createCoroutine(\n completion: Continuation<T>\n): Continuation<Unit> =\n SafeContinuation(createCoroutineUnintercepted(completion).intercepted(), COROUTINE_SUSPENDED)\n\n/**\n * Creates a coroutine with receiver type [R] and result type [T].\n * This function creates a new, fresh instance of suspendable computation every time it is invoked.\n *\n * To start executing the created coroutine, invoke `resume(Unit)` on the returned [Continuation] instance.\n * The [completion] continuation is invoked when the coroutine completes with a result or an exception.\n * Subsequent invocation of any resume function on the resulting continuation will produce an [IllegalStateException].\n */\n@SinceKotlin(\"1.3\")\n@Suppress(\"UNCHECKED_CAST\")\npublic fun <R, T> (suspend R.() -> T).createCoroutine(\n receiver: R,\n completion: Continuation<T>\n): Continuation<Unit> =\n SafeContinuation(createCoroutineUnintercepted(receiver, completion).intercepted(), COROUTINE_SUSPENDED)\n\n/**\n * Starts a coroutine without a receiver and with result type [T].\n * This function creates and starts a new, fresh instance of suspendable computation every time it is invoked.\n * The [completion] continuation is invoked when the coroutine completes with a result or an exception.\n */\n@SinceKotlin(\"1.3\")\n@Suppress(\"UNCHECKED_CAST\")\npublic fun <T> (suspend () -> T).startCoroutine(\n completion: Continuation<T>\n) {\n createCoroutineUnintercepted(completion).intercepted().resume(Unit)\n}\n\n/**\n * Starts a coroutine with receiver type [R] and result type [T].\n * This function creates and starts a new, fresh instance of suspendable computation every time it is invoked.\n * The [completion] continuation is invoked when the coroutine completes with a result or an exception.\n */\n@SinceKotlin(\"1.3\")\n@Suppress(\"UNCHECKED_CAST\")\npublic fun <R, T> (suspend R.() -> T).startCoroutine(\n receiver: R,\n completion: Continuation<T>\n) {\n createCoroutineUnintercepted(receiver, completion).intercepted().resume(Unit)\n}\n\n/**\n * Obtains the current continuation instance inside suspend functions and suspends\n * the currently running coroutine.\n *\n * In this function both [Continuation.resume] and [Continuation.resumeWithException] can be used either synchronously in\n * the same stack-frame where the suspension function is run or asynchronously later in the same thread or\n * from a different thread of execution. Subsequent invocation of any resume function will produce an [IllegalStateException].\n */\n@SinceKotlin(\"1.3\")\n@InlineOnly\npublic suspend inline fun <T> suspendCoroutine(crossinline block: (Continuation<T>) -> Unit): T {\n contract { callsInPlace(block, InvocationKind.EXACTLY_ONCE) }\n return suspendCoroutineUninterceptedOrReturn { c: Continuation<T> ->\n val safe = SafeContinuation(c.intercepted())\n block(safe)\n safe.getOrThrow()\n }\n}\n\n/**\n * Returns the context of the current coroutine.\n */\n@SinceKotlin(\"1.3\")\n@Suppress(\"WRONG_MODIFIER_TARGET\")\n@InlineOnly\npublic suspend inline val coroutineContext: CoroutineContext\n get() {\n throw NotImplementedError(\"Implemented as intrinsic\")\n }\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that

can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines.intrinsics\n\nimport kotlin.coroutines.*\nimport kotlin.internal.InlineOnly\n\n/**\n * Starts an unintercepted coroutine without a receiver and with result type [T] and executes it until its first suspension.\n * Returns the result of the coroutine or throws its exception if it does not suspend or [COROUTINE_SUSPENDED] if it suspends.\n * In the latter case, the [completion] continuation is invoked when the coroutine completes with a result or an exception.\n *\n * The coroutine is started directly in the invoker's thread without going through the [ContinuationInterceptor] that might\n * be present in the completion's [CoroutineContext]. It is the invoker's responsibility to ensure that a proper invocation\n * context is established.\n *\n * This function is designed to be used from inside of [suspendCoroutineUninterceptedOrReturn] to resume the execution of the suspended\n * coroutine using a reference to the suspending function.\n */\n@SinceKotlin(\"1.3\")\n@InlineOnly\npublic actual inline fun <T> (suspend () -> T).startCoroutineUninterceptedOrReturn(\n    completion: Continuation<T>\n): Any? = this.asDynamic()(completion, false)\n\n/**\n * Starts an unintercepted coroutine with receiver type [R] and result type [T] and executes it until its first suspension.\n * Returns the result of the coroutine or throws its exception if it does not suspend or [COROUTINE_SUSPENDED] if it suspends.\n * In the latter case, the [completion] continuation is invoked when the coroutine completes with a result or an exception.\n *\n * The coroutine is started directly in the invoker's thread without going through the [ContinuationInterceptor] that might\n * be present in the completion's [CoroutineContext]. It is the invoker's responsibility to ensure that a proper invocation\n * context is established.\n *\n * This function is designed to be used from inside of [suspendCoroutineUninterceptedOrReturn] to resume the execution of the suspended\n * coroutine using a reference to the suspending function.\n */\n@SinceKotlin(\"1.3\")\n@InlineOnly\npublic actual inline fun <R, T> (suspend R.() -> T).startCoroutineUninterceptedOrReturn(\n    receiver: R,\n    completion: Continuation<T>\n): Any? = this.asDynamic()(receiver, completion, false)\n\n@InlineOnly\ninternal actual inline fun <R, P, T> (suspend R.(P) -> T).startCoroutineUninterceptedOrReturn(\n    receiver: R,\n    param: P,\n    completion: Continuation<T>\n): Any? = this.asDynamic()(receiver, param, completion, false)\n\n/**\n * Creates unintercepted coroutine without receiver and with result type [T].\n * This function creates a new, fresh instance of suspendable computation every time it is invoked.\n *\n * To start executing the created coroutine, invoke `resume(Unit)` on the returned [Continuation] instance.\n * The [completion] continuation is invoked when coroutine completes with result or exception.\n *\n * This function returns unintercepted continuation.\n * Invocation of `resume(Unit)` starts coroutine immediately in the invoker's call stack without going through the\n * [ContinuationInterceptor] that might be present in the completion's [CoroutineContext].\n * It is the invoker's responsibility to ensure that a proper invocation context is established.\n * Note that [completion] of this function may get invoked in an arbitrary context.\n *\n * [Continuation.intercepted] can be used to acquire the intercepted continuation.\n * Invocation of `resume(Unit)` on intercepted continuation guarantees that execution of\n * both the coroutine and [completion] happens in the invocation context established by\n * [ContinuationInterceptor].\n *\n * Repeated invocation of any resume function on the resulting continuation corrupts the\n * state machine of the coroutine and may result in arbitrary behaviour or exception.\n */\n@SinceKotlin(\"1.3\")\npublic actual fun <T> (suspend () -> T).createCoroutineUnintercepted(\n    completion: Continuation<T>\n): Continuation<Unit> =\n    // Kotlin/JS suspend lambdas have an extra parameter `suspended`\n    if (this.asDynamic().length == 2) {\n        // When `suspended` is true the continuation is created, but not executed\n        this.asDynamic()(completion, true)\n    } else {\n        createCoroutineFromSuspendFunction(completion) {\n            this.asDynamic()(completion)\n        }\n}\n\n/**\n * Creates unintercepted coroutine with receiver type [R] and result type [T].\n * This function creates a new, fresh instance of suspendable computation every time it is invoked.\n *\n * To start executing the created coroutine, invoke `resume(Unit)` on the returned [Continuation] instance.\n * The [completion] continuation is invoked when coroutine completes with result or exception.\n *\n * This function returns unintercepted continuation.\n * Invocation of `resume(Unit)` starts coroutine immediately in the invoker's call stack without going through the\n * [ContinuationInterceptor] that might be present in the completion's [CoroutineContext].\n * It is the

invoker's responsibility to ensure that a proper invocation context is established.\n * Note that [completion] of this function may get invoked in an arbitrary context.\n *\n * [Continuation.intercepted] can be used to acquire the intercepted continuation.\n * Invocation of `resume(Unit)` on intercepted continuation guarantees that execution of\n * both the coroutine and [completion] happens in the invocation context established by\n * [ContinuationInterceptor].\n *\n * Repeated invocation of any resume function on the resulting continuation corrupts the\n * state machine of the coroutine and may result in arbitrary behaviour or exception.\n */\n@SinceKotlin(\"1.3\")\npublic actual fun <R, T> (suspend R.() -> T).createCoroutineUnintercepted(\n receiver: R,\n completion: Continuation<T>\n): Continuation<Unit> =\n // Kotlin/JS suspend lambdas have an extra parameter `suspended`\n if (this.asDynamic().length == 3) {\n // When `suspended` is true the continuation is created, but not executed\n this.asDynamic()(receiver, completion, true)\n } else {\n createCoroutineFromSuspendFunction(completion) {\n this.asDynamic()(receiver, completion)\n }\n}\n\n/**\n * Intercepts this continuation with [ContinuationInterceptor].\n *\n * This function shall be used on the immediate result of [createCoroutineUnintercepted] or [suspendCoroutineUninterceptedOrReturn],\n * in which case it checks for [ContinuationInterceptor] in the continuation's [context][Continuation.context],\n * invokes [ContinuationInterceptor.interceptContinuation], caches and returns the result.\n *\n * If this function is invoked on other [Continuation] instances it returns `this` continuation unchanged.\n */\n@SinceKotlin(\"1.3\")\npublic actual fun <T> Continuation<T>.intercepted(): Continuation<T> =\n (this as? CoroutineImpl)?.intercepted() ?: this\n\n\nprivate inline fun <T> createCoroutineFromSuspendFunction(\n completion: Continuation<T>,\n crossinline block: () -> Any?\n): Continuation<Unit> {\n @Suppress(\"UNCHECKED_CAST\")\n return object : CoroutineImpl(completion as Continuation<Any?>) {\n override fun doResume(): Any? {\n exception?.let { throw it }\n return block()\n }\n }\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n// Mirrors signature from JS IR BE\n// Used for js.translator/testData/box/number/mulInt32.kt\n@library\n@JsName(\"imulEmulated\")\n@Suppress(\"UNUSED_PARAMETER\")\ninternal fun imul(x: Int, y: Int): Int = definedExternally\n\n@Suppress(\"NOTHING_TO_INLINE\")\ninternal inline fun isArrayish(o: dynamic) = js(\"Kotlin\").isArrayish(o)\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\n// NOTE: Do not author your exceptions as they are written in this file, instead use this template:\n/*\npublic open class MyException : Exception {\n constructor() : super()\n constructor(message: String?) : super(message)\n constructor(message: String?, cause: Throwable?) : super(message, cause)\n constructor(cause: Throwable?) : super(cause)\n}\n*/\n\n\n// TODO: remove primary constructors, make all secondary KT-22055\n\n@Suppress(\"USELESS_ELVIS_RIGHT_IS_NULL\")\npublic actual open class Error actual constructor(message: String?, cause: Throwable?) : Throwable(message, cause ?: null) {\n actual constructor() : this(null, null)\n actual constructor(message: String?) : this(message, null)\n actual constructor(cause: Throwable?) : this(undefined, cause)\n}\n\n@Suppress(\"USELESS_ELVIS_RIGHT_IS_NULL\")\npublic actual open class Exception actual constructor(message: String?, cause: Throwable?) : Throwable(message, cause ?: null) {\n actual constructor() : this(null, null)\n actual constructor(message: String?) : this(message, null)\n actual constructor(cause: Throwable?) : this(undefined, cause)\n}\n\npublic actual open class RuntimeException actual constructor(message: String?, cause: Throwable?) : Exception(message, cause) {\n actual constructor() : this(null, null)\n actual constructor(message: String?) : this(message, null)\n actual constructor(cause: Throwable?) : this(undefined, cause)\n}\n\npublic actual open class IllegalArgumentException actual constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\n actual constructor() : this(null, null)\n actual constructor(message: String?) : this(message, null)\n actual constructor(cause: Throwable?) : this(undefined, cause)\n}\n\npublic actual open class IllegalStateException actual constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\n actual constructor() : this(null, null)\n actual constructor(message:

String?) : this(message, null)\n    actual constructor(cause: Throwable?) : this(undefined, cause)\n}\n\npublic actual open class IndexOutOfBoundsException actual constructor(message: String?) : RuntimeException(message) {\n actual constructor() : this(null)\n}\n\npublic actual open class ConcurrentModificationException actual constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\n    actual constructor() : this(null, null)\n    actual constructor(message: String?) : this(message, null)\n    actual constructor(cause: Throwable?) : this(undefined, cause)\n}\n\npublic actual open class UnsupportedOperationException actual constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\n    actual constructor() : this(null, null)\n    actual constructor(message: String?) : this(message, null)\n    actual constructor(cause: Throwable?) : this(undefined, cause)\n}\n\n\npublic actual open class NumberFormatException actual constructor(message: String?) : IllegalArgumentException(message) {\n    actual constructor() : this(null)\n}\n\n\npublic actual open class NullPointerException actual constructor(message: String?) : RuntimeException(message) {\n    actual constructor() : this(null)\n}\n\npublic actual open class ClassCastException actual constructor(message: String?) : RuntimeException(message) {\n    actual constructor() : this(null)\n}\n\npublic actual open class
AssertionError\n@SinceKotlin(\"1.4\")\nconstructor(message: String?, cause: Throwable?) : Error(message, cause) {\n    actual constructor() : this(null)\n    constructor(message: String?) : this(message, null)\n    actual constructor(message: Any?) : this(message.toString(), message as? Throwable)\n}\n\npublic actual open class NoSuchElementException actual constructor(message: String?) : RuntimeException(message) {\n    actual constructor() : this(null)\n}\n\n\n@SinceKotlin(\"1.3\")\npublic actual open class ArithmeticException actual constructor(message: String?) : RuntimeException(message) {\n    actual constructor() : this(null)\n}\n\npublic actual open class NoWhenBranchMatchedException actual constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\n    actual constructor() : this(null, null)\n    actual constructor(message: String?) : this(message, null)\n    actual constructor(cause: Throwable?) : this(undefined, cause)\n}\n\npublic actual open class
UninitializedPropertyAccessException actual constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\n    actual constructor() : this(null, null)\n    actual constructor(message: String?) : this(message, null)\n    actual constructor(cause: Throwable?) : this(undefined, cause)\n}\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. Use of this source code is governed by the Apache 2.0 license\n * that can be found in the license/LICENSE.txt file.\n */\n\n\n@file:Suppress(\"UNUSED_PARAMETER\")\n\npackage kotlin.js\n\n@kotlin.internal.InlineOnly\ninternal inline fun jsDeleteProperty(obj: Any, property: Any) {\n    js(\"delete obj[property]\")\n}\n\n@kotlin.internal.InlineOnly\ninternal inline fun jsBitwiseOr(lhs: Any?, rhs: Any?): Int =\n    js(\"lhs | rhs\").unsafeCast<Int>()","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt
file.\n */\npackage kotlin.math\n\n/**\n * Returns this value with the sign bit same as of the [sign] value.\n *\n * If [sign] is `NaN` the sign of the result is undefined.\n */\n@SinceKotlin(\"1.2\")\npublic actual fun Double.withSign(sign: Double): Double {\n    val thisSignBit = js(\"Kotlin\").doubleSignBit(this).unsafeCast<Int>()\n    val newSignBit = js(\"Kotlin\").doubleSignBit(sign).unsafeCast<Int>()\n    return if (thisSignBit == newSignBit) this else -this\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n\npackage kotlin\n\n\n/**\n * Returns a bit representation of the specified floating-point value as [Long]\n * according to the IEEE 754 floating-point \"double format\" bit layout.\n */\n@SinceKotlin(\"1.2\")\n@library(\"doubleToBits\")\npublic actual fun Double.toBits(): Long = definedExternally\n\n/**\n
* Returns a bit representation of the specified floating-point value as [Long]\n * according to the IEEE 754 floating-point \"double format\" bit layout,\n * preserving `NaN` values exact layout.\n */\n@SinceKotlin(\"1.2\")\n@library(\"doubleToRawBits\")\npublic actual fun Double.toRawBits(): Long =

definedExternally\n\n/**\n * Returns the [Double] value corresponding to a given bit representation.\n */\n@SinceKotlin(\"1.2\")\n@kotlin.internal.InlineOnly\npublic actual inline fun Double.Companion.fromBits(bits: Long): Double = js(\"Kotlin\").doubleFromBits(bits).unsafeCast<Double>()\n\n/**\n * Returns a bit representation of the specified floating-point value as [Int]\n * according to the IEEE 754 floating-point \"single format\" bit layout.\n *\n * Note that in Kotlin/JS [Float] range is wider than \"single format\" bit layout can represent,\n * so some [Float] values may overflow, underflow or loose their accuracy after conversion to bits and back.\n */\n@SinceKotlin(\"1.2\")\n@library(\"floatToBits\")\npublic
actual fun Float.toBits(): Int = definedExternally\n\n/**\n * Returns a bit representation of the specified floating-point value as [Int]\n * according to the IEEE 754 floating-point \"single format\" bit layout,\n * preserving `NaN` values exact layout.\n *\n * Note that in Kotlin/JS [Float] range is wider than \"single format\" bit layout can represent,\n * so some [Float] values may overflow, underflow or loose their accuracy after conversion to bits and back.\n */\n@SinceKotlin(\"1.2\")\n@library(\"floatToRawBits\")\npublic actual fun Float.toRawBits(): Int = definedExternally\n\n/**\n * Returns the [Float] value corresponding to a given bit representation.\n */\n@SinceKotlin(\"1.2\")\n@kotlin.internal.InlineOnly\npublic actual inline fun Float.Companion.fromBits(bits: Int): Float =
js(\"Kotlin\").floatFromBits(bits).unsafeCast<Float>()\n\n\n@Suppress(\"NOTHING_TO_INLINE\")\ninternal inline fun Long(low: Int, high: Int) = js(\"Kotlin\").Long.fromBits(low,
high).unsafeCast<Long>()\ninternal inline val Long.low: Int get() =
this.asDynamic().getLowBits().unsafeCast<Int>()\ninternal inline val Long.high: Int get() =
this.asDynamic().getHighBits().unsafeCast<Int>()\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\nimport kotlin.reflect.KClass\n\n@PublishedApi\ninternal fun <T : Annotation> KClass<*>.findAssociatedObject(@Suppress(\"UNUSED_PARAMETER\") annotationClass: KClass<T>): Any? {\n    // This API is not supported in js-v1. Return `null` to be source-compatible with js-ir.\n    return null\n}\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/**\n * Returns a string representation
of this [Long] value in the specified [radix].\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\n */\n@SinceKotlin(\"1.2\")\npublic actual fun Long.toString(radix: Int): String = asDynamic().toString(checkRadix(radix))","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateUnicodeData.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\n// 1343 ranges totally\nprivate object Category {\n    val decodedRangeStart: IntArray\n    val decodedRangeCategory: IntArray\n    \n    init {\n        val toBase64 = \"ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/\"\n        val fromBase64 = IntArray(128)\n        for (i in toBase64.indices) {\n
            fromBase64[toBase64[i].code] = i\n        }\n        \n        // rangeStartDiff.length = 1482\n        val
rangeStartDiff =
\"gBCFEDCKCDCaDDaDBhBCEEDDDDDEDXBHYBH5BRwBGDCHDCIDFHDCHFDCDEIRTEE7BGHDDJlCBbSEMOFGERwDEDDDDECEFCRBJhBFDCYFFCCzBvBjBBFC3BOhDBmBDGpBDDCtBBJIbEECLGDFCLDCgBBKVKEDiDDHCFECECKCEODBebC5CLBOKhBJDDDDWEBHFCFCPBZDEL1BVBSLPBgBB2BDBDICFBHKCCKCPDBHEDWBHEDDDDEDEDIBDGDCKCCGDDDCGECCWBFMDDCDEDDCHDDHKDDBKDBHFCWBFGFDBDDFEDBPDDKCHBGDCHEDWBFGFDCEDEDBHDDGDCKCGJEGDBFDDFDDDDDMEFDBFDCGBOKDFDFDCGFCXBQDDDDDBEGEDFDDKHBHDDGFCXBKBFCEFCFCHCHECCKDNCCHFCoBEDECFDDDDHDCCKJBGDCSDYBJEHBFDDEBIGKDCMuBFHEBGBIBKCkBFBFBXEIFJDFDGCKCEgBBDPEDGKKGECIBkBEOBDFFLBkBBIBEFFEClBrBCEBEGDBKGGDDDDDCHDENDCFEKDDlBDDFrBCDpKBECGEECpBBEChBBECGEECPB5BBECjCCDJUDQKG2CCGDsTCRBaCDrCDDIHNBEDLSDCJSCMLFC

CM0BDHGFLBFDDKGKGEFDDBKGjBB1BHFChBDFmCKfDDDDDDCGDCFDKeCFLsBEaGKBDiBXDDD1
BDGDEIGJEKGKGHBGCMF/BEBvBCEDDFHEKHKJJDDeDDGDKsBFEDCIEkBIICCDFKDDKeGCJHrBCDI
IDBNBHEBEFDBFsB/BNBiBlB6BBF1EIiDJIGCGCIIIIGCGCIIIIOCIIIIIIDFEDDBFEDDDDEBDIFDDFEDBLF
GCEEICFBJCDEDCLDKBFBKCCGDDKDDNDgBQNEBDMPFFDEDEBFFHECEBEEDFBEDDQjBCEDEFFC
CJHBeEEfsIIEUCHCxCBeZoBGlCZLV8BuCW3FBJB2BIvDB4HOesBFCfKQgIjEW/BEgBCiIwBVCGnBCgBBp
DvBBuBEDBHEFGCCjDCGEDCFCFlBDDF4BHCOBXJHBHBHBHBHBHBHBHBgBCECGHGEDIFBKCEDM
EtBaB5CM2GaMEDDCKCGFCJEDFDDDC2CDDDB6CDCFrBB+CDEKgBkBMQfBKeIBPgBKnBPgKguGgC9
vUDVB3jBD3BJoBGCsIBDQKCUuBDDKCcCCmCKCGIXJCNC/BBHGKDECEVFBEMCEEBqBDDGDFDXD
CEBDGEG0BEICyBQCICKGSGDEBKcICXLCLBdDDBvBDECCDNCKECFCJKFBpBFEDCJDBICCKCEQBG
DDByBEDCEFBYDCLEDDCKGCGCGJHBHBrBBEJDEwCjBIDCKGk9KMXExBEggCgoGuLCqDmBHMFFC
KBNBFBIsDQRrLCQgCC2BoBMCCQGEGQDCQDDDDFDGDECEEFBnEEBFEDCKCDCaDDaDBFCKBtBCf
DGCGCFEDDDDCECKDC\"\n
val diff = decodeVarLenBase64(rangeStartDiff, fromBase64, 1342)\n val start = IntArray(diff.size + 1)\n
for (i in diff.indices) {\n start[i + 1] = start[i] + diff[i]\n }\n decodedRangeStart = start\n \n
// rangeCategory.length = 2033\n val rangeCategory =
\"PsY44a41W54UYJYZYB14W7XC15WZPsYa84bl9Zw8b85Lr7C44brlerrYBZBCZCiBiBiBhCiiBhChiBhiCBhh
ChiCihBhChCChiBhChiClBCFhjCiBiBihDhiBhCCihBiBBhCCFCEbEbEb7EbGhCk7BixRkiCi4BRbh4BhRhCBR
BCiiBBCiBChiZBCBCiBcGHhChCiBRBxxEYC40Rx8c6RGUm4GRFRFYRQZ44acG4wRYFEFGJYllGFlYGwc
GmkEmcGFJFl8cYxwFGFGRFGFRJFGkkcYkxRm6aFGEGmmEmEGRYRFGxxYFRFRFRGQGIFmIFIGIooGF
GFGYJ4EFmoIRFlxRlxRFRFxlRxlFllRxmFIGxxIoxRomFRIRxlFlmGRJFaL86F4mRxmGoRFRFRFRFllRxGIGR
xmGxmGmxRxGRFlRRJmmFllGYRmmIRFllRlRFRFllRFxxGFIGmmRoxImxRFRllGmxRJ4aRFGxmIoRFlxRlxR
FRFllRFxxGlImoGmmRxoIxoIGRmmIRxlFlmGRJ8FLRxmFFRFllRllRxxFlRlxRxlFRFRFRooGRIooRomRxFRIR
JLc8aRmoIoGFllRlRFRFRlmGmoIooRGRGRxmGFRllGmxRJRYL8lGooYFllRlRFRFRFRmlIIxGooRGRIRlxFG
RJxlFRGIFllRlRFlmGIGxIooRomF8xRxxFlllLFGRJLcFxmIoRFRFRFxlRFRxxGxxIooGmmRRIRJxxIoYRFllGG
RaFEGYJYRxlFRFRFlRFllGGlxRFxEGRJRFRFcY84c8mGcJL8G1WIFRFRGIGmmYFGRGRcGc88RYcYRFIGI
GmmIomGFJYFooGmlFllGmmFIFIFGFmoIGIomFJIm8cBhRRxxBC4ECFRFRFlRFRFRFRFRFRFlRFRFRFRFR
FRGYLRFcRBRCxxUF8YFMF1WRFYKFRFRFGRFGYRFGRFllRlRGRFmmIGIooGGY44E46FmxRJRLRY44
U44GmmQRJRFEFRFGFlGRFRFxmGmoIooGmoIoxRxxIoGIGRxxcx4YJFRFRFRFRJLRcFmmIomRx4YFoGG
mRomIGIGmxRJRJRYEYRGmmHRGIFmIGmIIooGFRJYcGcRmmIFomGmmIomGmlFJFmoGooGGIRYFIGIG
RYJRFJFEYCRBRBYRGYGIGFGFllGomGFRCECECEGRGhCCiBCBCRBRCBCBCRBRCxBCBCRCDCDCD
CiiRBj7CbCiiRBj7b7iCiiRxiCBRbCBbxxCiiRBj7bRMQUY9+V9+VYtOQMY9eY43X44Z1WY54XYMQRQrER
LZ12ELZ12RERaRGHGHGR88B88BihBhiChhC8hcZBc8BB8CBCFi8cihBZBC8Z8CLKhCKr8cRZcZc88ZcZc85
Z8ZcZc1WcZc1WcZcZcZcRcRLcLcZcZcZcZc1WLcZ1WZ1WZcZ1WZ1WZ1WZcZcZcRcRcBRCixBBCiBBihC
CEBhCCchCGhCRY44LCiRRxxCFRkYRGFRFRFRFRFRFRFRFRFRFRGY9eY49eY44U49e49e1WYEYUY04VY
48cRcRcRcRcRs4Y48ElK1Wc1W12U2cKGooUE88KqqEl4c8RFxxGm7bkkFUF4kEkFRFRFx8cLcFcRFcRLcLc
LcLcLcFcFRFEFRcRFEYFEYFJFRhClmHnnYG4EhCEGFKGYRbEbhCCiBECiBhCk7bhClBihCiBBCBhCRhiBh
hCCRhiFkkCFlGllGllGFooGmIcGRL88aRFYRIFIGRYJRGFYl4FGJFGYFGIRYFRGIFmoIGIGIYxEJRYFmEFJ
FRFGmoImoIGRFGFmIRJRYFEFcloGIFmlGmlFGFlmGFRllEYFomGo4YlkEoGRFRFRFRFRFRCbECk7bRCFo
oG4oGRJRFRFRFRTSFRFRCRCRlGFZFRFRlxFFbRF2VRFRFRF6cRGY41WRG40UX1W44V24Y44X33Y44R
44U1WY50Z5R46YRFRFxxQY44a41W54UYJYZYB14W7XC15WZ12YYFEFEFRFRFRFlxRllRxxa65b86axcZc
RQcR\"\n
decodedRangeCategory
= decodeVarLenBase64(rangeCategory, fromBase64, 1343)\n }\n}\n\nprivate fun categoryValueFrom(code: Int,
ch: Int): Int {\n return when {\n code < 0x20 -> code\n code < 0x400 -> if ((ch and 1) == 1) code shr 5
else code and 0x1f\n else ->\n when (ch % 3) {\n 2 -> code shr 10\n 1 -> (code shr 5)
and 0x1f\n else -> code and 0x1f\n }\n }\n}\n\n/**\n * Returns the Unicode general category of
this character as an Int.\n */\ninternal fun Char.getCategoryValue(): Int {\n val ch = this.code\n\n val index =
binarySearchRange(Category.decodedRangeStart, ch)\n val start = Category.decodedRangeStart[index]\n val

code = Category.decodedRangeCategory[index]\n    val value = categoryValueFrom(code, ch - start)\n\n    return if (value == 17) CharCategory.UNASSIGNED.value else value\n}\n\ninternal fun decodeVarLenBase64(base64: String, fromBase64: IntArray, resultLength: Int): IntArray {\n    val result = IntArray(resultLength)\n    var index = 0\n    var int = 0\n    var shift = 0\n    for (char in base64) {\n        val sixBit = fromBase64[char.code]\n        int = int or ((sixBit and 0x1f) shl shift)\n        if (sixBit < 0x20) {\n            result[index++] = int\n            int = 0\n            shift = 0\n        } else {\n            shift += 5\n        }\n    }\n    return result\n}\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.js.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Reverses elements in the list in-place.\n */\npublic actual fun <T> MutableList<T>.reverse(): Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex = lastIndex\n    for (index in 0..midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateUnicodeData.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\n// 37 ranges totally\nprivate object Digit {\n    internal val rangeStart = intArrayOf(\n        0x0030, 0x0660, 0x06f0, 0x07c0, 0x0966, 0x09e6, 0x0a66, 0x0ae6, 0x0b66, 0x0be6, 0x0c66, 0x0ce6, 0x0d66, 0x0de6, 0x0e50, 0x0ed0, 0x0f20, 0x1040, 0x1090, 0x17e0, \n        0x1810, 0x1946, 0x19d0, 0x1a80, 0x1a90, 0x1b50, 0x1bb0, 0x1c40, 0x1c50, 0xa620, 0xa8d0, 0xa900, 0xa9d0, 0xa9f0, 0xaa50, 0xabf0, 0xff10, \n    )\n}\n\n/**\n * Returns the index of the largest element in [array] smaller or equal to the specified [needle],\n * or -1 if [needle] is smaller than the smallest element in [array].\n */\ninternal fun binarySearchRange(array: IntArray, needle: Int): Int {\n    var bottom = 0\n    var top = array.size - 1\n    var middle = -1\n    var value = 0\n    while (bottom <= top) {\n        middle = (bottom + top) / 2\n        value = array[middle]\n        if (needle > value)\n            bottom = middle + 1\n        else if (needle == value)\n            return middle\n        else\n            top = middle - 1\n    }\n    return middle - (if (needle < value) 1 else 0)\n}\n\n/**\n * Returns an integer from 0..9 indicating the digit this character represents,\n * or -1 if this character is not a digit.\n */\ninternal fun Char.digitToIntImpl(): Int {\n    val ch = this.code\n    val index = binarySearchRange(Digit.rangeStart, ch)\n    val diff = ch - Digit.rangeStart[index]\n    return if (diff < 10) diff else -1\n}\n\n/**\n * Returns `true` if this character is a digit.\n */\ninternal fun Char.isDigitImpl(): Boolean {\n    return digitToIntImpl() >= 0\n}\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateUnicodeData.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\n// 222 ranges totally\nprivate object Letter {\n    val decodedRangeStart: IntArray\n    val decodedRangeLength: IntArray\n    val decodedRangeCategory: IntArray\n\n    init {\n        val toBase64 = \"ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/\"\n        val fromBase64 = IntArray(128)\n        for (i in toBase64.indices)\n            fromBase64[toBase64[i].code] = i\n        \n        // rangeStartDiff.length = 356\n        val rangeStartDiff = \"hCgBpCQGYHZH5BRpBPPPPPPRMP5BPPlCPP6BkEPPPPcPXPzBvBrB3BOiDoBHwD+E3DauCnFmBmB2D6E1BlBTiBmBlBP5BhBiBrBvBjBqBnBPRtBiCmCtBlB0BmB5BiB7BmBgEmChBZgCoEoGVpBSfRhBPqKQ2BwBYoFgB4CJuTiEvBuCuDrF5DgEgFlJ1DgFmBQtBsBRGsB+BPiBlD1EIjDPRPPPQPPPPPGQSQS/DxENVNU+B9zCwBwBPPCkDPNnBPqDYY1R8B7FkFgTgwGgwUwmBgKwBuBScmEP/BPPPPPPrBP8B7F1B/ErBqC6B7BiBmBfQsBUwCw/KwqIwLwETPcPjQgJxFgBlBsD\"\n        val diff = decodeVarLenBase64(rangeStartDiff, fromBase64, 222)\n        val start = IntArray(diff.size)\n        for (i in diff.indices) {\n            if (i == 0) start[i] =

```
diff[i]\n            else start[i] = start[i - 1] + diff[i]\n        }\n        decodedRangeStart = start\n        \n        // rangeLength.length = 328\n        val rangeLength = \"aaMBXHYH5BRpBPPPPPPRMP5BPPlCPPzBDOOPPcPXPzBvBjB3BOhDmBBpB7DoDYxB+EiBP1DoExBkBQhBekBPmBgBhBctBiBMWOOXhCsBpBkBUV3Ba4BkB0DlCgBXgBtD4FSdBfPhBPpKP0BvBXjEQ2CGsT8DhBtCqDpFvD1D3E0IrD2EkBJrBDOBsB+BPiBlB1EIjDPPPPPPPPPPPGPPMNLsBNPNPKCvBvBPPCkDPBmBPhDXXgD4B6FzEgDguG9vUtkB9JcuBSckEP/BPPPPPPBPf4FrBjEhBpC3B5BKaWPrBOwCk/KsCuLqDHPbPxPsFtEaaqDL\"\n        decodedRangeLength = decodeVarLenBase64(rangeLength, fromBase64, 222)\n        \n        // rangeCategory.length = 959\n        val rangeCategory = \"GFjgggUHGGFFZZZmzpz5qB6s6020B60ptltB6smt2sB60mz22B1+vv+8BZZ5s2850BW5q1ymtB506smzBF3q1q1qB1q1q1+Bgii4wDTm74g3KiggxqM60q1q1Bq1o1q1BF1qlrqrBZ2q5wprBGFZWWZGHFsjiooLowgmOowjkwCkgoiIk7ligGogiioBkwkiYkzj2oNoi+sbkwj04DghhkQ8wgiYkgoioDsgnkwC4gikQ//v+85BkwvoIsgoyI4yguI0whiwEowri4CoghsJowgqYowgm4DkwgsY/nwnzPowhmYkg6wI8yggZswikwHgxgmIoxgqYkwgk4DkxgmIkgoioBsgssoBgzgyI8g9gL8g9kI0wgwJoxgkoC0wgioFkw/wI0w53iF4gioYowjmgBHGq1qkgwBF1q1q8qBHwghuIwghyKk0goQkwgoQk3goQHGFHkyg0pBgxj6IoinkxDswno7Ikwhz9Bo0gioB8z48Rwli0xN0mpjoX8w78pDwltoqKHFGGwwgsIHFH3q1q16BFHWFZ1q10q1B2qlwq1B1q10q1B2q1yq1B6q1gq1Biq1qhxBir1qp1Bqt1q1qB1g1q1+B//3q16B///q1qBH/qlqq9Bholqq9B1i00a1q10qD1op1HkwmigEigiy6Cptogq1Bixo1kDq7/j00B2qgoBWGFm1lz50B6s5q1+BGWhggzhwBFFhgk4//Bo2jigE8wguI8wguI8wgugUog1qoB4qjmIwwi2KgkYHHH4lBgiFWkgIWoghssMmz5smrBZ3q1y50B5sm7gzBtz1smzB5smz50BqzqtmzB5sgzqzBF2/9//5BowgoIwmnkzPkwgk4C8ys65BkgoqI0wgy6FghquZo2giY0ghiIsgh24B4ghsQ8QF/v1q1OFs0O8iCHHF1qggz/B8wg6Iznv+//B08QgohsjK0QGFk7hsQ4gB\"\n        decodedRangeCategory = decodeVarLenBase64(rangeCategory, fromBase64, 222)\n    }\n}\n\n/**\n * Returns `true` if this character is a letter.\n */\ninternal fun Char.isLetterImpl(): Boolean {\n    return getLetterType() != 0\n}\n\n/**\n * Returns `true` if this character is a lower case letter, or it has contributory property Other_Lowercase.\n */\ninternal fun Char.isLowerCaseImpl(): Boolean {\n    return getLetterType() == 1 || code.isOtherLowercase()\n}\n\n/**\n * Returns `true` if this character is an upper case letter, or it has contributory property Other_Uppercase.\n */\ninternal fun Char.isUpperCaseImpl(): Boolean {\n    return getLetterType() == 2 || code.isOtherUppercase()\n}\n\n/**\n
 * Returns\n *   - `1` if the character is a lower case letter,\n *   - `2` if the character is an upper case letter,\n *   - `3` if the character is a letter but not a lower or upper case letter,\n *   - `0` otherwise.\n */\nprivate fun Char.getLetterType(): Int {\n    val ch = this.code\n    val index = binarySearchRange(Letter.decodedRangeStart, ch)\n\n    val rangeStart = Letter.decodedRangeStart[index]\n    val rangeEnd = rangeStart + Letter.decodedRangeLength[index] - 1\n    val code = Letter.decodedRangeCategory[index]\n\n    if (ch > rangeEnd) {\n        return 0\n    }\n\n    val lastTwoBits = code and 0x3\n\n    if (lastTwoBits == 0) { // gap pattern\n        var shift = 2\n        var threshold = rangeStart\n        for (i in 0..1) {\n            threshold += (code shr shift) and 0x7f\n            if (threshold > ch) {\n                return 3\n            }\n            shift += 7\n            threshold += (code shr shift) and 0x7f\n
    if (threshold > ch) {\n                return 0\n            }\n            shift += 7\n        }\n        return 3\n    }\n\n    if (code <= 0x7) {\n        return lastTwoBits\n    }\n\n    val distance = (ch - rangeStart)\n    val shift = if (code <= 0x1F) distance % 2 else distance\n    return (code shr (2 * shift)) and 0x3\n}\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateUnicodeData.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nprivate object OtherLowercase {\n    internal val otherLowerStart = intArrayOf(\n        0x00aa, 0x00ba, 0x02b0, 0x02c0, 0x02e0, 0x0345, 0x037a, 0x1d2c, 0x1d78, 0x1d9b, 0x2071, 0x207f, 0x2090, 0x2170, 0x24d0, 0x2c7c, 0xa69c, 0xa770, 0xa7f8, 0xab5c, \n    )\n    internal
 val otherLowerLength = intArrayOf(\n        1, 1, 9, 2, 5, 1, 1, 63, 1, 37, 1, 1, 13, 16, 26, 2, 2, 1, 2, 4, \n    )\n}\n\ninternal fun Int.isOtherLowercase(): Boolean {\n    val index =
```

binarySearchRange(OtherLowercase.otherLowerStart, this)\n    return index >= 0 && this < OtherLowercase.otherLowerStart[index] + OtherLowercase.otherLowerLength[index]\n}\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateUnicodeData.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\ninternal fun Int.isOtherUppercase(): Boolean {\n    return this in 0x2160..0x216f\n            || this in 0x24b6..0x24cf\n}\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.js.*\n\n/**\n * Returns a character at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this char sequence.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun CharSequence.elementAt(index: Int): Char {\n    return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, length: $length}\") }\n}\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateUnicodeData.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\n// 4 ranges totally\ninternal fun Char.titlecaseCharImpl(): Char {\n    val code = this.code\n    // Letters repeating <Lu, Lt, Ll> sequence and code of the Lt is a multiple of 3, e.g. <\u01c4, \u01c5, \u01c6>\n    if (code in 0x01c4..0x01cc || code in 0x01f1..0x01f3) {\n        return (3 * ((code + 1) / 3)).toChar()\n    }\n    // Lower case letters whose title case mapping equivalent is equal to the original letter\n    if (code in 0x10d0..0x10fa || code in 0x10fd..0x10ff) {\n        return this\n    }\n    return uppercaseChar()\n}","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.js.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic actual fun UIntArray.elementAt(index: Int): UInt {\n    return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size}\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic actual fun ULongArray.elementAt(index: Int): ULong {\n    return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size}\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic actual fun UByteArray.elementAt(index: Int): UByte {\n    return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size}\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic actual fun UShortArray.elementAt(index: Int): UShort {\n    return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size}\") }\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic actual fun UIntArray.asList(): List<UInt> {\n

```
return object : AbstractList<UInt>(), RandomAccess {\n override val size: Int get() = this@asList.size\n override fun isEmpty(): Boolean = this@asList.isEmpty()\n override fun contains(element: UInt): Boolean = this@asList.contains(element)\n override fun get(index: Int): UInt {\n AbstractList.checkElementIndex(index, size)\n return this@asList[index]\n }\n override fun indexOf(element: UInt): Int {\n @Suppress(\"USELESS_CAST\")\n if ((element as Any?) !is UInt) return -1\n return this@asList.indexOf(element)\n }\n override fun lastIndexOf(element: UInt): Int {\n @Suppress(\"USELESS_CAST\")\n if ((element as Any?) !is UInt) return -1\n return this@asList.lastIndexOf(element)\n }\n }\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic actual fun ULongArray.asList(): List<ULong> {\n return object : AbstractList<ULong>(), RandomAccess {\n override val size: Int get() = this@asList.size\n override fun isEmpty(): Boolean = this@asList.isEmpty()\n override fun contains(element: ULong): Boolean = this@asList.contains(element)\n override fun get(index: Int): ULong {\n AbstractList.checkElementIndex(index, size)\n return this@asList[index]\n }\n override fun indexOf(element: ULong): Int {\n @Suppress(\"USELESS_CAST\")\n if ((element as Any?) !is ULong) return -1\n return this@asList.indexOf(element)\n }\n override fun lastIndexOf(element: ULong): Int {\n @Suppress(\"USELESS_CAST\")\n if ((element as Any?) !is ULong) return -1\n return this@asList.lastIndexOf(element)\n }\n }\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic actual fun UByteArray.asList(): List<UByte> {\n return object : AbstractList<UByte>(), RandomAccess {\n override val size: Int get() = this@asList.size\n override fun isEmpty(): Boolean = this@asList.isEmpty()\n override fun contains(element: UByte): Boolean = this@asList.contains(element)\n override fun get(index: Int): UByte {\n AbstractList.checkElementIndex(index, size)\n return this@asList[index]\n }\n override fun indexOf(element: UByte): Int {\n @Suppress(\"USELESS_CAST\")\n if ((element as Any?) !is UByte) return -1\n return this@asList.indexOf(element)\n }\n override fun lastIndexOf(element: UByte): Int {\n @Suppress(\"USELESS_CAST\")\n if ((element as Any?) !is UByte) return -1\n return this@asList.lastIndexOf(element)\n }\n }\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic actual fun UShortArray.asList(): List<UShort> {\n return object : AbstractList<UShort>(), RandomAccess {\n override val size: Int get() = this@asList.size\n override fun isEmpty(): Boolean = this@asList.isEmpty()\n override fun contains(element: UShort): Boolean = this@asList.contains(element)\n override fun get(index: Int): UShort {\n AbstractList.checkElementIndex(index, size)\n return this@asList[index]\n }\n override fun indexOf(element: UShort): Int {\n @Suppress(\"USELESS_CAST\")\n if ((element as Any?) !is UShort) return -1\n return this@asList.indexOf(element)\n }\n override fun lastIndexOf(element: UShort): Int {\n @Suppress(\"USELESS_CAST\")\n if ((element as Any?) !is UShort) return -1\n return this@asList.lastIndexOf(element)\n }\n }\n}\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateUnicodeData.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\n// 9 ranges totally\n/**\n * Returns `true` if this character is a whitespace.\n */\ninternal fun Char.isWhitespaceImpl(): Boolean {\n val ch = this.code\n return ch in 0x0009..0x000d\n || ch in 0x001c..0x0020\n || ch == 0x00a0\n || ch > 0x1000 && (\n ch == 0x1680\n || ch in 0x2000..0x200a\n || ch == 0x2028\n || ch == 0x2029\n || ch == 0x202f\n || ch == 0x205f\n || ch == 0x3000\n )\n}\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\n\npublic actual fun interface Comparator<T> {\n @JsName(\"compare\")\n public actual fun compare(a: T, b: T): Int\n}\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
```

contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\nimport kotlin.annotation.AnnotationTarget.*\n\n@Target(FUNCTION)\n@Deprecated(\"Use inline extension function with body using dynamic\")\npublic annotation class nativeGetter\n\n@Target(FUNCTION)\n@Deprecated(\"Use inline extension function with body using dynamic\")\npublic annotation class nativeSetter\n\n@Target(FUNCTION)\n@Deprecated(\"Use inline extension function with body using dynamic\")\npublic annotation class nativeInvoke\n\n@Target(CLASS, FUNCTION, PROPERTY)\ninternal annotation class library(public
val name: String = \"\")\n\n@Target(CLASS)\ninternal annotation class marker\n\n/**\n * Gives a declaration (a function, a property or a class) specific name in JavaScript.\n *\n * This may be useful in the following cases:\n *\n *  * There are two functions for which the compiler gives same name in JavaScript, you can\n *  mark one with `@JsName(...)` to prevent the compiler from reporting error.\n  * You are writing a JavaScript library in Kotlin. The compiler produces mangled names\n *  for functions with parameters, which is unnatural for usual JavaScript developer.\n *  You can put `@JsName(...)` on functions you want to be available from JavaScript.\n  * For some reason you want to rename declaration, e.g. there's common term in JavaScript\n *  for a concept provided by the declaration, which in uncommon in Kotlin.\n *\n * Example:\n *\n * ``` kotlin\n * class Person(val name: String) {\n *  fun hello() {\n *  println(\"Hello $name!\")\n *  }\n
*\n *  @JsName(\"helloWithGreeting\")\n *  fun hello(greeting: String) {\n *  println(\"$greeting $name!\")\n *  }\n * }\n * ```\n *\n * @property name the name which compiler uses both for declaration itself and for all references to the declaration.\n *  It's required to denote a valid JavaScript identifier.\n *\n */\n@Retention(AnnotationRetention.BINARY)\n@Target(CLASS, FUNCTION, PROPERTY, CONSTRUCTOR, PROPERTY_GETTER, PROPERTY_SETTER)\npublic actual annotation class JsName(actual val name: String)\n\n/**\n * Denotes an `external` declaration that must be imported from native JavaScript library.\n *\n * The compiler produces the code relevant for the target module system, for example, in case of CommonJS,\n * it will import the declaration via the `require(...)` function.\n *\n * The annotation can be used on top-level external declarations (classes, properties, functions) and files.\n * In case of file (which can't be `external`) the following rule applies:
all the declarations in\n * the file must be `external`. By applying `@JsModule(...)` on a file you tell the compiler to import a JavaScript object\n * that contain all the declarations from the file.\n *\n * Example:\n *\n * ``` kotlin\n * @JsModule(\"jquery\")\n * external abstract class JQuery() {\n *  // some declarations here\n * }\n *\n * @JsModule(\"jquery\")\n * external fun JQuery(element: Element): JQuery\n * ```\n *\n * @property import name of a module to import declaration from.\n *  It is not interpreted by the Kotlin compiler, it's passed as is directly to the target module system.\n *\n * @see JsNonModule\n */\n@Retention(AnnotationRetention.BINARY)\n@Target(CLASS, PROPERTY, FUNCTION, FILE)\npublic annotation class JsModule(val import: String)\n\n/**\n * Denotes an `external` declaration that can be used without module system.\n *\n * By default, an `external` declaration is available regardless your target module system.\n * However, by applying [JsModule]
annotation you can make a declaration unavailable to *plain* module system.\n * Some JavaScript libraries are distributed both as a standalone downloadable piece of JavaScript and as a module available\n * as an npm package.\n * To tell the Kotlin compiler to accept both cases, you can augment [JsModule] with the `@JsNonModule` annotation.\n *\n * For example:\n *\n * ``` kotlin\n * @JsModule(\"jquery\")\n * @JsNonModule\n * @JsName(\"$\")\n * external abstract class JQuery() {\n *  // some declarations here\n * }\n *\n * @JsModule(\"jquery\")\n * @JsNonModule\n * @JsName(\"$\")\n * external fun JQuery(element: Element): JQuery\n * ```\n *\n * @see JsModule\n */\n@Retention(AnnotationRetention.BINARY)\n@Target(CLASS, PROPERTY, FUNCTION, FILE)\npublic annotation class JsNonModule\n\n/**\n * Adds prefix to `external` declarations in a source file.\n *\n * JavaScript does not have concept of packages (namespaces). They are usually emulated by nested objects.\n * The compiler turns references

to `external` declarations either to plain unprefixed names (in case of *plain* modules)\n * or to plain imports.\n * However, if a JavaScript library provides its declarations in packages, you won't be satisfied with this.\n * You can tell the compiler to generate additional prefix before references to `external` declarations using the `@JsQualifier(...)`\n * annotation.\n *\n * Note that a file marked with the `@JsQualifier(...)` annotation can't contain non-`external` declarations.\n *\n * Example:\n *\n * ```\n * @file:JsQualifier(\"my.jsPackageName\")\n * package some.kotlinPackage\n *\n * external fun foo(x: Int)\n *\n * external fun bar(): String\n * ```\n *\n * @property value the qualifier to add to the declarations in the generated code.\n * It must be a sequence of valid JavaScript identifiers separated by the `.` character.\n * Examples of valid qualifiers are: `foo`, `bar.Baz`, `_.$0.f`.\n *\n * @see JsModule\n */\n@Retention(AnnotationRetention.BINARY)\n@Target(AnnotationTarget.FILE)\npublic annotation class JsQualifier(val value: String)\n\n/**\n * Exports top-level declaration on JS platform.\n *\n * Compiled module exposes declarations that are marked with this annotation without name mangling.\n *\n * This annotation can be applied to either files or top-level declarations.\n *\n * It is currently prohibited to export the following kinds of declarations:\n *\n * * `expect` declarations\n * * inline functions with reified type parameters\n * * suspend functions\n * * secondary constructors without `@JsName`\n * * extension properties\n * * enum classes\n * * annotation classes\n *\n * Signatures of exported declarations must only contain \"exportable\" types:\n *\n * * `dynamic`, `Any`, `String`, `Boolean`, `Byte`, `Short`, `Int`, `Float`, `Double`\n * * `BooleanArray`, `ByteArray`, `ShortArray`, `IntArray`, `FloatArray`, `DoubleArray`\n * * `Array<exportable-type>`\n * * Function types with exportable parameters and return types\n * * `external` or `@JsExport` classes and interfaces\n * * Nullable counterparts of types above\n * * Unit return type. Must not be nullable\n *\n * This annotation is experimental, meaning that restrictions mentioned above are subject to change.\n */\n@ExperimentalJsExport\n@Retention(AnnotationRetention.BINARY)\n@Target(CLASS, PROPERTY, FUNCTION, FILE)\n@SinceKotlin(\"1.3\")\npublic actual annotation class JsExport\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.jvm\n\n// these are used in common generated code in stdlib\n\n// TODO: find how to deprecate these ones\n\n@Target(AnnotationTarget.FIELD)\n@Retention(AnnotationRetention.SOURCE)\npublic actual annotation class Volatile\n\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY_GETTER, AnnotationTarget.PROPERTY_SETTER)\n@Retention(AnnotationRetention.SOURCE)\npublic actual annotation class Synchronized\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n/**\n * Provides a skeletal implementation of the [MutableCollection] interface.\n *\n * @param E the type of elements contained in the collection. The collection is invariant in its element type.\n */\npublic actual abstract class AbstractMutableCollection<E> protected actual constructor() : AbstractCollection<E>(), MutableCollection<E> {\n\n actual abstract override fun add(element: E): Boolean\n\n actual override fun remove(element: E): Boolean {\n checkIsMutable()\n val iterator = iterator()\n while (iterator.hasNext()) {\n if (iterator.next() == element) {\n iterator.remove()\n return true\n }\n }\n return false\n }\n\n actual override fun addAll(elements: Collection<E>): Boolean {\n checkIsMutable()\n var modified = false\n for (element in elements) {\n if (add(element)) modified = true\n }\n return modified\n }\n\n actual override fun removeAll(elements: Collection<E>): Boolean {\n checkIsMutable()\n return (this as MutableIterable<E>).removeAll { it in elements }\n }\n\n actual override fun retainAll(elements: Collection<E>): Boolean {\n checkIsMutable()\n return (this as MutableIterable<E>).removeAll { it !in elements }\n }\n\n actual override fun clear(): Unit {\n checkIsMutable()\n val iterator = this.iterator()\n while (iterator.hasNext()) {\n iterator.next()\n iterator.remove()\n }\n }\n\n @Deprecated(\"Provided so that subclasses inherit this function\", level

```
 = DeprecationLevel.HIDDEN)\n    @JsName(\"toJSON\")\n    protected fun toJSON(): Any = this.toArray()\n\n\n
/**\n     * This method is called every time when a mutating method is called on this mutable collection.\n     *
Mutable collections that are built (frozen) must throw `UnsupportedOperationException`.\n     */\n    internal open
fun checkIsMutable(): Unit { }\n}\n\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n/*\n * Based on GWT AbstractList\n * Copyright 2007 Google
Inc.\n*/\n\n\npackage kotlin.collections\n\n/**\n * Provides a skeletal implementation of the [MutableList]
interface.\n *\n * @param E the type of elements contained in the list. The list is invariant in its element type.\n
*/\npublic actual abstract class AbstractMutableList<E> protected actual constructor() :
AbstractMutableCollection<E>(),
 MutableList<E> {\n    protected var modCount: Int = 0\n\n    abstract override fun add(index: Int, element: E):
Unit\n    abstract override fun removeAt(index: Int): E\n    abstract override fun set(index: Int, element: E): E\n\n
/**\n     * Adds the specified element to the end of this list.\n     *\n     * @return `true` because the list is always
modified as the result of this operation.\n     */\n    actual override fun add(element: E): Boolean {\n
checkIsMutable()\n        add(size, element)\n        return true\n    }\n\n    actual override fun addAll(index: Int,
elements: Collection<E>): Boolean {\n        AbstractList.checkPositionIndex(index, size)\n\n
checkIsMutable()\n        var _index = index\n        var changed = false\n        for (e in elements) {\n
add(_index++, e)\n            changed = true\n        }\n        return changed\n    }\n\n    actual override fun clear() {\n
 checkIsMutable()\n        removeRange(0, size)\n    }\n\n
  actual override fun removeAll(elements: Collection<E>): Boolean {\n        checkIsMutable()\n        return
removeAll { it in elements }\n    }\n\n    actual override fun retainAll(elements: Collection<E>): Boolean {\n
checkIsMutable()\n        return removeAll { it !in elements }\n    }\n\n\n    actual override fun iterator():
MutableIterator<E> = IteratorImpl()\n\n    actual override fun contains(element: E): Boolean = indexOf(element) >=
0\n\n    actual override fun indexOf(element: E): Int {\n        for (index in 0..lastIndex) {\n            if (get(index) ==
element) {\n                return index\n            }\n        }\n        return -1\n    }\n\n    actual override fun
lastIndexOf(element: E): Int {\n        for (index in lastIndex downTo 0) {\n            if (get(index) == element) {\n
      return index\n            }\n        }\n        return -1\n    }\n\n    actual override fun listIterator():
MutableListIterator<E> = listIterator(0)\n    actual override
 fun listIterator(index: Int): MutableListIterator<E> = ListIteratorImpl(index)\n\n\n    actual override fun
subList(fromIndex: Int, toIndex: Int): MutableList<E> = SubList(this, fromIndex, toIndex)\n\n    /**\n     * Removes
the range of elements from this list starting from [fromIndex] and ending with but not including [toIndex].\n     */\n
protected open fun removeRange(fromIndex: Int, toIndex: Int) {\n        val iterator = listIterator(fromIndex)\n
repeat(toIndex - fromIndex) {\n            iterator.next()\n            iterator.remove()\n        }\n    }\n\n    /**\n     *
Compares this list with another list instance with the ordered structural equality.\n     *\n     * @return true, if [other]
instance is a [List] of the same size, which contains the same elements in the same order.\n     */\n    override fun
equals(other: Any?): Boolean {\n        if (other === this) return true\n        if (other !is List<*>) return false\n\n
return AbstractList.orderedEquals(this,
 other)\n    }\n\n    /**\n     * Returns the hash code value for this list.\n     */\n    override fun hashCode(): Int =
AbstractList.orderedHashCode(this)\n\n\n    private open inner class IteratorImpl : MutableIterator<E> {\n        /**
the index of the item that will be returned on the next call to [next]`()` */\n        protected var index = 0\n        /** the
index of the item that was returned on the previous call to [next]`()`\n         * or [ListIterator.previous]`()` (for
`ListIterator`),\n         * -1 if no such item exists\n         */\n        protected var last = -1\n\n        override fun
hasNext(): Boolean = index < size\n\n        override fun next(): E {\n            if (!hasNext()) throw
NoSuchElementException()\n            last = index++\n            return get(last)\n        }\n\n        override fun remove()
{\n            check(last != -1) { \"Call next() or previous() before removing element from the iterator.\" }\n\n
removeAt(last)\n
      index = last\n            last = -1\n        }\n    }\n\n    /**\n     * Implementation of `MutableListIterator` for abstract
lists.\n     */\n    private inner class ListIteratorImpl(index: Int) : IteratorImpl(), MutableListIterator<E> {\n\n
```

```
init {\n AbstractList.checkPositionIndex(index, this@AbstractMutableList.size)\n this.index = index\n }\n\n override fun hasPrevious(): Boolean = index > 0\n\n override fun nextIndex(): Int = index\n\n override fun previous(): E {\n if (!hasPrevious()) throw NoSuchElementException()\n\n last = --index\n return get(last)\n }\n\n override fun previousIndex(): Int = index - 1\n\n override fun add(element: E) {\n add(index, element)\n index++\n last = -1\n }\n\n override fun set(element: E) {\n check(last != -1) { \"Call next() or previous() before updating element value with the iterator.\" }\n set(last, element)\n }\n }\n\n private class SubList<E>(private val list: AbstractMutableList<E>, private val fromIndex: Int, toIndex: Int) : AbstractMutableList<E>(), RandomAccess {\n private var _size: Int = 0\n\n init {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, list.size)\n this._size = toIndex - fromIndex\n }\n\n override fun add(index: Int, element: E) {\n AbstractList.checkPositionIndex(index, _size)\n\n list.add(fromIndex + index, element)\n _size++\n }\n\n override fun get(index: Int): E {\n AbstractList.checkElementIndex(index, _size)\n\n return list[fromIndex + index]\n }\n\n override fun removeAt(index: Int): E {\n AbstractList.checkElementIndex(index, _size)\n\n val result = list.removeAt(fromIndex + index)\n _size--\n return result\n }\n\n override fun set(index: Int, element: E): E {\n AbstractList.checkElementIndex(index, _size)\n\n return list.set(fromIndex + index, element)\n }\n\n override val size: Int get() = _size\n\n internal override fun checkIsMutable(): Unit = list.checkIsMutable()\n }\n\n}\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n/*\n * Based on GWT AbstractMap\n * Copyright 2007 Google Inc.\n */\n\npackage kotlin.collections\n\n/**\n * Provides a skeletal implementation of the [MutableMap] interface.\n *\n * The implementor is required to implement [entries] property, which should return mutable set of map entries, and [put] function.\n *\n * @param K the type of map keys. The map is invariant in its key type.\n * @param V the type of map values. The map is invariant in its value type.\n */\npublic actual abstract class AbstractMutableMap<K, V> protected actual constructor() : AbstractMap<K, V>(), MutableMap<K, V> {\n\n /**\n * A mutable [Map.Entry] shared by several [Map] implementations.\n */\n internal open class SimpleEntry<K, V>(override val key: K, value: V) : MutableMap.MutableEntry<K, V> {\n constructor(entry: Map.Entry<K, V>) : this(entry.key, entry.value)\n\n private var _value = value\n\n override val value: V get() = _value\n\n override fun setValue(newValue: V): V {\n // Should check if the map containing this entry is mutable.\n // However, to not increase entry memory footprint it might be worthwhile not to check it here and\n // force subclasses that implement `build()` (freezing) operation to implement their own `MutableEntry`.\n// this@AbstractMutableMap.checkIsMutable()\n val oldValue = this._value\n this._value = newValue\n return oldValue\n }\n\n override fun hashCode(): Int = entryHashCode(this)\n override fun toString(): String = entryToString(this)\n override fun equals(other: Any?): Boolean = entryEquals(this, other)\n\n }\n\n // intermediate abstract class to workaround KT-43321\n internal abstract class AbstractEntrySet<E : Map.Entry<K, V>, K, V> : AbstractMutableSet<E>() {\n final override fun contains(element: E): Boolean = containsEntry(element)\n abstract fun containsEntry(element: Map.Entry<K, V>): Boolean\n final override fun remove(element: E): Boolean = removeEntry(element)\n abstract fun removeEntry(element: Map.Entry<K, V>): Boolean\n }\n\n actual override fun clear() {\n entries.clear()\n }\n\n private var _keys: MutableSet<K>? = null\n actual override val keys: MutableSet<K>\n get() {\n if (_keys == null) {\n _keys = object : AbstractMutableSet<K>() {\n override fun add(element: K): Boolean = throw UnsupportedOperationException(\"Add is not supported on keys\")\n override fun clear() {\n this@AbstractMutableMap.clear()\n }\n\n override operator fun contains(element: K): Boolean = containsKey(element)\n\n override operator fun iterator(): MutableIterator<K> {\n val entryIterator = entries.iterator()\n return object : MutableIterator<K> {\n override fun hasNext(): Boolean = entryIterator.hasNext()\n override fun next(): K = entryIterator.next().key\n override fun remove() =
```

entryIterator.remove()\n }\n }\n\n override fun remove(element: K): Boolean {\n checkIsMutable()\n if (containsKey(element)) {\n this@AbstractMutableMap.remove(element)\n return true\n }\n return false\n }\n\n override val size: Int get() = this@AbstractMutableMap.size\n\n override fun checkIsMutable(): Unit = this@AbstractMutableMap.checkIsMutable()\n }\n }\n return _keys!!\n }\n\n actual abstract override fun put(key: K, value: V): V?\n\n actual override fun putAll(from: Map<out K, V>) {\n checkIsMutable()\n for ((key, value) in from) {\n put(key, value)\n }\n }\n\n private var _values: MutableCollection<V>? = null\n actual override val values: MutableCollection<V>\n get() {\n if (_values == null) {\n _values = object : AbstractMutableCollection<V>() {\n override fun add(element: V): Boolean = throw UnsupportedOperationException(\"Add is not supported on values\")\n override fun clear() = this@AbstractMutableMap.clear()\n\n override operator fun contains(element: V): Boolean = containsValue(element)\n\n override operator fun iterator(): MutableIterator<V> {\n val entryIterator = entries.iterator()\n return object : MutableIterator<V> {\n override fun hasNext(): Boolean = entryIterator.hasNext()\n override fun next(): V = entryIterator.next().value\n override fun remove() = entryIterator.remove()\n }\n }\n\n override val size: Int get() = this@AbstractMutableMap.size\n\n override fun checkIsMutable(): Unit = this@AbstractMutableMap.checkIsMutable()\n }\n }\n return _values!!\n }\n\n actual override fun remove(key: K): V? {\n checkIsMutable()\n val iter = entries.iterator()\n while (iter.hasNext()) {\n val entry = iter.next()\n val k = entry.key\n if (key == k) {\n val value = entry.value\n iter.remove()\n return value\n }\n }\n return null\n }\n\n /**\n * This method is called every time when a mutating method is called on this mutable map.\n * Mutable maps that are built (frozen) must throw `UnsupportedOperationException`.\n */\n internal open fun checkIsMutable(): Unit {}\n}\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\npackage kotlin.collections\n\n/**\n * Provides a skeletal implementation of the [MutableSet] interface.\n *\n * @param E the type of elements contained in the set. The set is invariant in its element type.\n */\npublic actual abstract class AbstractMutableSet<E> protected actual constructor() : AbstractMutableCollection<E>(), MutableSet<E> {\n\n /**\n * Compares this set with another set instance with the unordered structural equality.\n *\n * @return `true`, if [other] instance is a [Set] of the same size, all elements of which are contained in this set.\n */\n override fun equals(other: Any?): Boolean {\n if (other === this) return true\n if (other !is Set<*>) return false\n return AbstractSet.setEquals(this, other)\n }\n\n /**\n * Returns the hash code value for this set.\n */\n override fun hashCode(): Int = AbstractSet.unorderedHashCode(this)\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n/**\n * Provides a [MutableList] implementation, which uses a resizable array as its backing storage.\n *\n * This implementation doesn't provide a way to manage capacity, as backing JS array is resizeable itself.\n * There is no speed advantage to pre-allocating array sizes in JavaScript, so this implementation does not include any of the\n * capacity and \"growth increment\" concepts.\n */\npublic actual open class ArrayList<E> internal constructor(private var array: Array<Any?>) : AbstractMutableList<E>(), MutableList<E>, RandomAccess {\n private var isReadOnly: Boolean = false\n\n /**\n * Creates an empty [ArrayList].\n */\n public actual constructor() : this(emptyArray()) {}\n\n /**\n * Creates an empty [ArrayList].\n * @param initialCapacity initial capacity (ignored)\n */\n public actual constructor(initialCapacity: Int) : this(emptyArray()) {}\n\n /**\n * Creates an [ArrayList] filled from the [elements] collection.\n

```
*/\n    public actual constructor(elements: Collection<E>) : this(elements.toTypedArray<Any?>()) {}\n\n @PublishedApi\n    internal fun build(): List<E> {\n        checkIsMutable()\n        isReadOnly = true\n        return this\n    }\n\n    /** Does nothing in this ArrayList implementation. */\n    public actual fun trimToSize() {}\n\n    /** Does nothing in this ArrayList implementation. */\n    public actual fun ensureCapacity(minCapacity: Int) {}\n\n actual override val size: Int get() = array.size\n    @Suppress(\"UNCHECKED_CAST\")\n    actual override fun get(index: Int): E = array[rangeCheck(index)] as E\n    actual override fun set(index: Int, element: E): E {\n checkIsMutable()\n        rangeCheck(index)\n        @Suppress(\"UNCHECKED_CAST\")\n        return array[index].apply { array[index] = element } as E\n    }\n\n    actual override fun add(element: E): Boolean {\n checkIsMutable()\n        array.asDynamic().push(element)\n        modCount++\n        return true\n    }\n\n    actual override fun add(index: Int, element: E): Unit {\n        checkIsMutable()\n array.asDynamic().splice(insertionRangeCheck(index), 0, element)\n        modCount++\n    }\n\n    actual override fun addAll(elements: Collection<E>): Boolean {\n        checkIsMutable()\n        if (elements.isEmpty()) return false\n\n        array += elements.toTypedArray<Any?>()\n        modCount++\n        return true\n    }\n\n    actual override fun addAll(index: Int, elements: Collection<E>): Boolean {\n        checkIsMutable()\n insertionRangeCheck(index)\n\n        if (index == size) return addAll(elements)\n        if (elements.isEmpty()) return false\n        when (index) {\n            size -> return addAll(elements)\n            0 -> array = elements.toTypedArray<Any?>() + array\n            else -> array = array.copyOfRange(0, index).asDynamic().concat(elements.toTypedArray<Any?>(), array.copyOfRange(index, size))\n        }\n\n        modCount++\n        return true\n    }\n\n    actual override fun removeAt(index: Int): E {\n        checkIsMutable()\n rangeCheck(index)\n        modCount++\n        return if (index == lastIndex)\n            array.asDynamic().pop()\n        else\n            array.asDynamic().splice(index, 1)[0]\n    }\n\n    actual override fun remove(element: E): Boolean {\n    checkIsMutable()\n        for (index in array.indices) {\n            if (array[index] == element) {\n array.asDynamic().splice(index, 1)\n                modCount++\n                return true\n            }\n        }\n        return false\n    }\n\n    override fun removeRange(fromIndex: Int, toIndex: Int) {\n        checkIsMutable()\n modCount++\n        array.asDynamic().splice(fromIndex, toIndex - fromIndex)\n    }\n\n    actual override fun clear() {\n        checkIsMutable()\n        array = emptyArray()\n        modCount++\n    }\n\n\n    actual override fun indexOf(element: E): Int =\n array.indexOf(element)\n\n    actual override fun lastIndexOf(element: E): Int = array.lastIndexOf(element)\n\n override fun toString() = arrayToString(array)\n\n    @Suppress(\"UNCHECKED_CAST\")\n    override fun <T> toArray(array: Array<T>): Array<T> {\n        if (array.size < size) {\n            return toArray() as Array<T>\n        }\n\n        (this.array as Array<T>).copyInto(array)\n\n        if (array.size > size) {\n            array[size] = null as T // null-terminate\n        }\n\n        return array\n    }\n\n    override fun toArray(): Array<Any?> {\n        return js(\"[]\").slice.call(array)\n    }\n\n\n    internal override fun checkIsMutable() {\n        if (isReadOnly) throw UnsupportedOperationException()\n    }\n\n    private fun rangeCheck(index: Int) = index.apply {\n AbstractList.checkElementIndex(index, size)\n    }\n\n    private fun insertionRangeCheck(index: Int) = index.apply {\n        AbstractList.checkPositionIndex(index, size)\n    }\n}","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\ninternal fun <T> sortArrayWith(array: Array<out T>, comparison: (T, T) -> Int) {\n    if (getStableSortingIsSupported()) {\n        array.asDynamic().sort(comparison)\n    } else {\n mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, Comparator(comparison))\n    }\n}\n\ninternal fun <T> sortArrayWith(array: Array<out T>, comparator: Comparator<in T>) {\n    if (getStableSortingIsSupported()) {\n        val comparison = { a: T, b: T -> comparator.compare(a, b) }\n        array.asDynamic().sort(comparison)\n    } else {\n        mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, comparator)\n    }\n}\n\ninternal fun <T> sortArrayWith(array: Array<out T>, fromIndex: Int, toIndex: Int, comparator: Comparator<in T>) {\n    if (fromIndex < toIndex - 1) {\n        mergeSort(array.unsafeCast<Array<T>>(), fromIndex, toIndex - 1, comparator)\n    }\n}\n\ninternal fun <T : Comparable<T>> sortArray(array: Array<out T>) {\n    if
```

(getStableSortingIsSupported()) {\n val comparison = { a: T, b: T -> a.compareTo(b) }\n array.asDynamic().sort(comparison)\n } else {\n mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, naturalOrder())\n }\n}\n\nprivate var _stableSortingIsSupported: Boolean? = null\nprivate fun getStableSortingIsSupported(): Boolean {\n _stableSortingIsSupported?.let { return it }\n _stableSortingIsSupported = false\n\n val array = js(\"[]\").unsafeCast<Array<Int>>()\n // known implementations may use stable sort for arrays of up to 512 elements\n // so we create slightly more elements to test stability\n for (index in 0 until 600) array.asDynamic().push(index)\n val comparison = { a: Int, b: Int -> (a and 3) - (b and 3) }\n array.asDynamic().sort(comparison)\n for (index in 1 until array.size) {\n val a = array[index - 1]\n val b = array[index]\n if ((a and 3) == (b and 3) && a >= b) return false\n }\n _stableSortingIsSupported = true\n return true\n}\n\n\nprivate fun <T> mergeSort(array: Array<T>, start: Int, endInclusive: Int, comparator: Comparator<in T>) {\n val buffer = arrayOfNulls<Any?>(array.size).unsafeCast<Array<T>>()\n val result = mergeSort(array, buffer, start, endInclusive, comparator)\n if (result !== array) {\n for (i in start..endInclusive) array[i] = result[i]\n }\n}\n\n// Both start and end are inclusive indices.\nprivate fun <T> mergeSort(array: Array<T>, buffer: Array<T>, start: Int, end: Int, comparator: Comparator<in T>): Array<T> {\n if (start == end) {\n return array\n }\n\n val median = (start + end) / 2\n val left = mergeSort(array, buffer, start, median, comparator)\n val right = mergeSort(array, buffer, median + 1, end, comparator)\n\n val target = if (left === buffer) array else buffer\n\n // Merge.\n var leftIndex = start\n var rightIndex = median + 1\n for (i in start..end) {\n when {\n leftIndex <= median && rightIndex <= end -> {\n val leftValue = left[leftIndex]\n val rightValue = right[rightIndex]\n\n if (comparator.compare(leftValue, rightValue) <= 0) {\n target[i] = leftValue\n leftIndex++\n } else {\n target[i] = rightValue\n rightIndex++\n }\n }\n leftIndex <= median -> {\n target[i] = left[leftIndex]\n leftIndex++\n }\n else /* rightIndex <= end */ -> {\n target[i] = right[rightIndex]\n rightIndex++\n Unit // TODO: Fix KT-31506\n }\n }\n }\n\n return target\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n\n@OptIn(ExperimentalUnsignedTypes::class)\n@SinceKotlin(\"1.3\")\n@kotlin.js.JsName(\"contentDeepHashCodeImpl\")\ninternal fun <T> Array<out T>?.contentDeepHashCodeImpl(): Int {\n if (this == null) return 0\n var result = 1\n for (element in this) {\n val elementHash = when {\n element == null -> 0\n isArrayish(element) -> (element.unsafeCast<Array<*>>()).contentDeepHashCodeImpl()\n\n element is UByteArray -> element.contentHashCode()\n element is UShortArray -> element.contentHashCode()\n element is UIntArray -> element.contentHashCode()\n element is ULongArray -> element.contentHashCode()\n\n else -> element.hashCode()\n }\n\n result = 31 * result + elementHash\n }\n return result\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\ninternal interface EqualityComparator {\n /**\n * Subclasses must override to return a value indicating\n * whether or not two keys or values are equal.\n */\n abstract fun equals(value1: Any?, value2: Any?): Boolean\n\n /**\n * Subclasses must override to return the hash code of a given key.\n */\n abstract fun getHashCode(value: Any?): Int\n\n\n object HashCode : EqualityComparator {\n override fun equals(value1: Any?, value2: Any?): Boolean = value1 == value2\n\n override fun getHashCode(value: Any?): Int = value?.hashCode() ?: 0\n }\n}","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n/*\n * Based on GWT AbstractHashMap\n * Copyright 2008 Google Inc.\n */\n\npackage kotlin.collections\n\nimport kotlin.collections.MutableMap.MutableEntry\n\n/**\n * Hash table based implementation of the [MutableMap] interface.\n *\n * This implementation makes no guarantees regarding the order of enumeration of [keys], [values] and [entries] collections.\n */\n// Classes that extend HashMap and

implement `build()` (freezing) operation\n// have to make sure mutating methods check `checkIsMutable`.\npublic actual open class HashMap<K, V> : AbstractMutableMap<K, V>, MutableMap<K, V> {\n\n private inner class EntrySet : AbstractEntrySet<MutableEntry<K, V>, K, V>() {\n\n override fun add(element: MutableEntry<K, V>): Boolean = throw UnsupportedOperationException(\"Add is not supported on entries\")\n override fun clear() {\n this@HashMap.clear()\n }\n\n override fun containsEntry(element: Map.Entry<K, V>): Boolean = this@HashMap.containsEntry(element)\n\n override operator fun iterator(): MutableIterator<MutableEntry<K, V>> = internalMap.iterator()\n\n override fun removeEntry(element: Map.Entry<K, V>): Boolean {\n if (contains(element)) {\n this@HashMap.remove(element.key)\n return true\n }\n return false\n }\n\n override val size: Int get() = this@HashMap.size\n }\n\n\n /**\n * Internal implementation of the map: either string-based or hashcode-based.\n */\n private val internalMap: InternalMap<K, V>\n\n private val equality: EqualityComparator\n\n internal constructor(internalMap: InternalMap<K, V>) : super() {\n this.internalMap = internalMap\n this.equality = internalMap.equality\n }\n\n /**\n * Constructs an empty [HashMap] instance.\n */\n actual constructor() : this(InternalHashCodeMap(EqualityComparator.HashCode))\n\n /**\n * Constructs an empty [HashMap] instance.\n *\n * @param initialCapacity the initial capacity (ignored)\n * @param loadFactor the load factor (ignored)\n *\n * @throws IllegalArgumentException if the initial capacity or load factor are negative\n */\n actual constructor(initialCapacity: Int, loadFactor: Float) : this() {\n // This implementation of HashMap has no need of load factors or capacities.\n require(initialCapacity >= 0) { \"Negative initial capacity: $initialCapacity\" }\n require(loadFactor >= 0) { \"Non-positive load factor: $loadFactor\" }\n }\n\n actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\n\n\n /**\n * Constructs an instance of [HashMap] filled with the contents of the specified [original] map.\n */\n actual constructor(original: Map<out K, V>) : this() {\n this.putAll(original)\n }\n\n actual override fun clear() {\n internalMap.clear()\n// structureChanged(this)\n }\n\n actual override fun containsKey(key: K): Boolean = internalMap.contains(key)\n\n actual override fun containsValue(value: V): Boolean = internalMap.any { equality.equals(it.value, value) }\n\n private var _entries: MutableSet<MutableMap.MutableEntry<K, V>>? = null\n actual override val entries: MutableSet<MutableMap.MutableEntry<K, V>>\n get() {\n if (_entries == null) {\n _entries = createEntrySet()\n }\n return _entries!!\n }\n\n internal open fun createEntrySet(): MutableSet<MutableMap.MutableEntry<K, V>> = EntrySet()\n\n actual override operator fun get(key: K): V? = internalMap.get(key)\n\n actual override fun put(key: K, value: V): V? = internalMap.put(key, value)\n\n actual override fun remove(key: K): V? = internalMap.remove(key)\n\n actual override val size: Int get() = internalMap.size\n\n}\n\n/**\n * Constructs the specialized implementation of [HashMap] with [String] keys, which stores the keys as properties of\n * JS object without hashing them.\n */\npublic fun <V> stringMapOf(vararg pairs: Pair<String, V>): HashMap<String, V> {\n return HashMap<String, V>(InternalStringMap(EqualityComparator.HashCode)).apply { putAll(pairs) }\n}\n\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n/*\n * Based on GWT HashSet\n * Copyright 2008 Google Inc.\n */\n\npackage kotlin.collections\n\n/**\n * The implementation of the [MutableSet] interface, backed by a [HashMap] instance.\n */\n// Classes that extend HashSet and implement `build()` (freezing) operation\n// have to make sure mutating methods check `checkIsMutable`.\npublic actual open class HashSet<E> : AbstractMutableSet<E>, MutableSet<E>
{\n\n internal val map: HashMap<E, Any>\n\n /**\n * Constructs a new empty [HashSet].\n */\n actual constructor() {\n map = HashMap<E, Any>()\n }\n\n /**\n * Constructs a new [HashSet] filled with the elements of the specified collection.\n */\n actual constructor(elements: Collection<E>) {\n map = HashMap<E, Any>(elements.size)\n addAll(elements)\n }\n\n /**\n * Constructs a new empty [HashSet].\n *\n * @param initialCapacity the initial capacity (ignored)\n * @param loadFactor the load factor (ignored)\n *\n * @throws IllegalArgumentException if the initial capacity or load factor are negative\n

```
*/\n    actual constructor(initialCapacity: Int, loadFactor: Float) {\n        map = HashMap<E, Any>(initialCapacity, loadFactor)\n    }\n\n    actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\n\n    /**\n     * Protected constructor to specify the underlying map. This is used
 by\n     * LinkedHashSet.\n\n     * @param map underlying map to use.\n     */\n    internal constructor(map: HashMap<E, Any>) {\n        this.map = map\n    }\n\n    actual override fun add(element: E): Boolean {\n        val old = map.put(element, this)\n        return old == null\n    }\n\n    actual override fun clear() {\n        map.clear()\n    }\n\n//    public override fun clone(): Any {\n//        return HashSet<E>(this)\n//    }\n\n    actual override operator fun contains(element: E): Boolean = map.containsKey(element)\n\n    actual override fun isEmpty(): Boolean = map.isEmpty()\n\n    actual override fun iterator(): MutableIterator<E> = map.keys.iterator()\n\n    actual override fun remove(element: E): Boolean = map.remove(element) != null\n\n    actual override val size: Int get() = map.size\n\n}\n\n/**\n * Creates a new instance of the specialized implementation of [HashSet] with the specified [String] elements,\n * which elements the keys as properties of JS object without
 hashing them.\n */\npublic fun stringSetOf(vararg elements: String): HashSet<String> {\n    return HashSet(stringMapOf<Any>()).apply { addAll(elements) }\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n/*\n * Based on GWT InternalHashCodeMap\n * Copyright 2008 Google Inc.\n */\n\npackage kotlin.collections\n\nimport kotlin.collections.MutableMap.MutableEntry\nimport kotlin.collections.AbstractMutableMap.SimpleEntry\n\n/**\n * A simple wrapper around JavaScriptObject to provide [java.util.Map]-like semantics for any\n * key type.\n *\n *\n * Implementation notes:\n *\n *\n * A key's hashCode is the index in backingMap which should contain that key. Since several keys may\n * have the same hash, each value in hashCodeMap is actually an array containing all entries whose\n * keys share the same hash.\n */\ninternal
 class InternalHashCodeMap<K, V>(override val equality: EqualityComparator) : InternalMap<K, V> {\n\n    private var backingMap: dynamic = createJsMap()\n    override var size: Int = 0\n        private set\n\n    override fun put(key: K, value: V): V? {\n        val hashCode = equality.getHashCode(key)\n        val chainOrEntry = getChainOrEntryOrNull(hashCode)\n        if (chainOrEntry == null) {\n            // This is a new chain, put it to the map.\n            backingMap[hashCode] = SimpleEntry(key, value)\n        } else {\n            if (chainOrEntry !is Array<*>) {\n                // It is an entry\n                val entry: SimpleEntry<K, V> = chainOrEntry\n                if (equality.equals(entry.key, key)) {\n                    return entry.setValue(value)\n                } else {\n                    backingMap[hashCode] = arrayOf(entry, SimpleEntry(key, value))\n                    size++\n                    return null\n                }\n            } else {\n
                // Chain already exists, perhaps key also exists.\n                val chain: Array<MutableEntry<K, V>> = chainOrEntry\n                val entry = chain.findEntryInChain(key)\n                if (entry != null) {\n                    return entry.setValue(value)\n                }\n                chain.asDynamic().push(SimpleEntry(key, value))\n            }\n        }\n        size++\n//        structureChanged(host)\n        return null\n    }\n\n    override fun remove(key: K): V? {\n        val hashCode = equality.getHashCode(key)\n        val chainOrEntry = getChainOrEntryOrNull(hashCode) ?: return null\n        if (chainOrEntry !is Array<*>) {\n            val entry: MutableEntry<K, V> = chainOrEntry\n            if (equality.equals(entry.key, key)) {\n                jsDeleteProperty(backingMap, hashCode)\n                size--\n                return entry.value\n            } else {\n                return null\n            }\n        } else {\n            val
 chain: Array<MutableEntry<K, V>> = chainOrEntry\n            for (index in chain.indices) {\n                val entry = chain[index]\n                if (equality.equals(key, entry.key)) {\n                    if (chain.size == 1) {\n                        chain.asDynamic().length = 0\n                        // remove the whole array\n                        jsDeleteProperty(backingMap, hashCode)\n                    } else {\n                        // splice out the entry we're removing\n                        chain.asDynamic().splice(index, 1)\n                    }\n                    size--\n//                    structureChanged(host)\n                    return entry.value\n                }\n            }\n        }\n        return null\n    }\n\n    override fun clear() {\n        backingMap = createJsMap()\n        size = 0\n    }\n\n    override fun contains(key: K): Boolean = getEntry(key) != null\n\n    override fun get(key: K): V? = getEntry(key)?.value\n\n    private fun
```

```
getEntry(key: K): MutableEntry<K, V>? {\n        val chainOrEntry = getChainOrEntryOrNull(equality.getHashCode(key)) ?: return null\n        if (chainOrEntry !is Array<*>) {\n            val entry: MutableEntry<K, V> = chainOrEntry\n            if (equality.equals(entry.key, key)) {\n                return entry\n            } else {\n                return null\n            }\n        } else {\n            val chain: Array<MutableEntry<K, V>> = chainOrEntry\n            return chain.findEntryInChain(key)\n        }\n    }\n\n    private fun Array<MutableEntry<K, V>>.findEntryInChain(key: K): MutableEntry<K, V>? =\n        firstOrNull { entry -> equality.equals(entry.key, key) }\n\n    override fun iterator(): MutableIterator<MutableEntry<K, V>> {\n\n        return object : MutableIterator<MutableEntry<K, V>> {\n            var state = -1 // -1 not ready, 0 - ready, 1 - done\n\n            val keys: Array<String> = js(\"Object\").keys(backingMap)\n            var keyIndex = -1\n\n            var chainOrEntry: dynamic = null\n            var isChain = false\n            var itemIndex = -1\n            var lastEntry: MutableEntry<K, V>? = null\n\n            private fun computeNext(): Int {\n                if (chainOrEntry != null && isChain) {\n                    val chainSize: Int = chainOrEntry.unsafeCast<Array<MutableEntry<K, V>>>().size\n                    if (++itemIndex < chainSize)\n                        return 0\n                }\n\n                if (++keyIndex < keys.size) {\n                    chainOrEntry = backingMap[keys[keyIndex]]\n                    isChain = chainOrEntry is Array<*>\n                    itemIndex = 0\n                    return 0\n                } else {\n                    chainOrEntry = null\n                    return 1\n                }\n            }\n\n            override fun hasNext(): Boolean {\n                if (state == -1)\n                    state = computeNext()\n                return state == 0\n            }\n\n            override fun next(): MutableEntry<K, V> {\n                if (!hasNext()) throw NoSuchElementException()\n                val lastEntry = if (isChain) {\n                    chainOrEntry.unsafeCast<Array<MutableEntry<K, V>>>()[itemIndex]\n                } else {\n                    chainOrEntry.unsafeCast<MutableEntry<K, V>>()\n                }\n                this.lastEntry = lastEntry\n                state = -1\n                return lastEntry\n            }\n\n            override fun remove() {\n                checkNotNull(lastEntry)\n                this@InternalHashCodeMap.remove(lastEntry!!.key)\n                lastEntry = null\n                // the chain being iterated just got modified by InternalHashCodeMap.remove\n                itemIndex--\n            }\n        }\n    }\n\n    private fun getChainOrEntryOrNull(hashCode: Int): dynamic {\n        val chainOrEntry = backingMap[hashCode]\n        return if (chainOrEntry === undefined) null\n        else chainOrEntry\n    }\n\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n/**\n * The common interface of [InternalStringMap] and [InternalHashCodeMap].\n */\ninternal interface InternalMap<K, V> : MutableIterable<MutableMap.MutableEntry<K, V>> {\n    val equality: EqualityComparator\n    val size: Int\n    operator fun contains(key: K): Boolean\n    operator fun get(key: K): V?\n\n    fun put(key: K, value: V): V?\n    fun remove(key: K): V?\n    fun clear(): Unit\n\n    fun createJsMap(): dynamic {\n        val result = js(\"Object.create(null)\")\n        // force to switch object representation to dictionary mode\n        result[\"foo\"] = 1\n        jsDeleteProperty(result, \"foo\")\n        return result\n    }\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n/*\n * Based on GWT InternalStringMap\n * Copyright 2008 Google Inc.\n */\npackage kotlin.collections\n\nimport kotlin.collections.MutableMap.MutableEntry\n\n/**\n * A simple wrapper around JavaScript Map for key type is string.\n *\n * Though this map is instantiated only with K=String, the K type is not fixed to String statically,\n * because we want to have it erased to Any? in order not to generate type-safe override bridges for\n * [get], [contains], [remove] etc, if they ever are generated.\n */\ninternal class InternalStringMap<K, V>(override val equality: EqualityComparator) : InternalMap<K, V> {\n\n    private var backingMap: dynamic = createJsMap()\n    override var size: Int = 0\n        private set\n\n    //    /**\n    //     * A mod count to track 'value' replacements in map to ensure that the 'value' that we have in the\n    //     * iterator entry is guaranteed to be still correct.\n    //     * This is to optimize for the common scenario where the values are not modified during\n    //     * iterations where the entries are never stale.\n    //     */\n    //    private var valueMod: Int = 0\n\n    override operator fun contains(key: K): Boolean {\n        if (key !is String) return false\n        return
```

```
backingMap[key] !== undefined\n    }\n\n    override operator fun get(key: K): V? {\n        if (key !is String) return null\n        val value = backingMap[key]\n        return if (value !== undefined) value.unsafeCast<V>() else null\n    }\n\n\n    override fun put(key: K, value: V): V? {\n        require(key is String)\n        val oldValue = backingMap[key]\n        backingMap[key] = value\n\n        if (oldValue === undefined) {\n            size++\n//            structureChanged(host)\n            return null\n        } else {\n//            valueMod++\n            return oldValue.unsafeCast<V>()\n        }\n    }\n\n
    override fun remove(key: K): V? {\n        if (key !is String) return null\n        val value = backingMap[key]\n        if (value !== undefined) {\n            jsDeleteProperty(backingMap, key)\n            size--\n//            structureChanged(host)\n            return value.unsafeCast<V>()\n        } else {\n//            valueMod++\n            return null\n        }\n    }\n\n\n    override fun clear() {\n        backingMap = createJsMap()\n        size = 0\n    }\n\n\n    override fun iterator(): MutableIterator<MutableEntry<K, V>> {\n        return object : MutableIterator<MutableEntry<K, V>> {\n            private val keys: Array<String> = js(\"Object\").keys(backingMap)\n            private val iterator = keys.iterator()\n            private var lastKey: String? = null\n\n            override fun hasNext(): Boolean = iterator.hasNext()\n\n            override fun next(): MutableEntry<K, V> {\n                val key = iterator.next()\n                lastKey = key\n                @Suppress(\"UNCHECKED_CAST\")\n                return newMapEntry(key as K)\n            }\n\n            override fun remove() {\n                @Suppress(\"UNCHECKED_CAST\")\n                this@InternalStringMap.remove(checkNotNull(lastKey) as K)\n            }\n        }\n    }\n\n    private fun newMapEntry(key: K): MutableEntry<K, V> = object : MutableEntry<K, V> {\n        override val key: K get() = key\n        override val value: V get() = this@InternalStringMap[key].unsafeCast<V>()\n\n        override fun setValue(newValue: V): V = this@InternalStringMap.put(key, newValue).unsafeCast<V>()\n\n        override fun hashCode(): Int = AbstractMap.entryHashCode(this)\n        override fun toString(): String = AbstractMap.entryToString(this)\n        override fun equals(other: Any?): Boolean = AbstractMap.entryEquals(this, other)\n    }\n}\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by
the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n/*\n * Based on GWT LinkedHashMap\n * Copyright 2008 Google Inc.\n */\npackage kotlin.collections\n\nimport kotlin.collections.MutableMap.MutableEntry\n\n/**\n * Hash table based implementation of the [MutableMap] interface, which additionally preserves the insertion order\n * of entries during the iteration.\n *\n * The insertion order is preserved by maintaining a doubly-linked list of all of its entries.\n */\npublic actual open class LinkedHashMap<K, V> : HashMap<K, V>, MutableMap<K, V> {\n\n    /**\n     * The entry we use includes next/prev pointers for a doubly-linked circular\n     * list with a head node. This reduces the special cases we have to deal with\n     * in the list operations.\n\n     * Note that we duplicate the key from the underlying hash map so we can find\n     * the eldest entry. The alternative would have been to modify HashMap so more\n     * of the code was directly usable here,
but this would have added some\n     * overhead to HashMap, or to reimplement most of the HashMap code here with\n     * small modifications. Paying a small storage cost only if you use\n     * LinkedHashMap and minimizing code size seemed like a better tradeoff\n     */\n    private inner class ChainEntry<K, V>(key: K, value: V) : AbstractMutableMap.SimpleEntry<K, V>(key, value) {\n        internal var next: ChainEntry<K, V>? = null\n        internal var prev: ChainEntry<K, V>? = null\n\n        override fun setValue(newValue: V): V {\n            this@LinkedHashMap.checkIsMutable()\n            return super.setValue(newValue)\n        }\n    }\n\n    private inner class EntrySet : AbstractEntrySet<MutableEntry<K, V>, K, V>() {\n\n        private inner class EntryIterator : MutableIterator<MutableEntry<K, V>> {\n            // The last entry that was returned from this iterator.\n            private var last: ChainEntry<K, V>? = null\n\n            // The next entry to return from this iterator.\n            private var next: ChainEntry<K, V>? = null\n\n            init {\n                next = head\n//                recordLastKnownStructure(map, this)\n            }\n\n            override fun hasNext(): Boolean {\n                return next !== null\n            }\n\n            override fun next(): MutableEntry<K, V> {\n//                checkStructuralChange(map, this)\n                if (!hasNext()) throw NoSuchElementException()\n\n                val
```

```
current = next!!\n                last = current\n                next = current.next.takeIf { it !== head }\n                return current\n            }\n\n            override fun remove() {\n                check(last != null)\n                this@EntrySet.checkIsMutable()\n//                checkStructuralChange(map, this)\n\n                last!!.remove()\n                map.remove(last!!.key)\n//                recordLastKnownStructure(map, this)\n                last = null\n            }\n        }\n\n        override fun add(element: MutableEntry<K, V>): Boolean = throw UnsupportedOperationException(\"Add is not supported on entries\")\n        override fun clear() {\n            this@LinkedHashMap.clear()\n        }\n\n        override fun containsEntry(element: Map.Entry<K, V>): Boolean = this@LinkedHashMap.containsEntry(element)\n\n        override operator fun iterator(): MutableIterator<MutableEntry<K, V>> = EntryIterator()\n\n        override fun removeEntry(element: Map.Entry<K, V>): Boolean {\n            checkIsMutable()\n            if (contains(element)) {\n                this@LinkedHashMap.remove(element.key)\n                return true\n            }\n            return false\n        }\n\n        override val size: Int get() = this@LinkedHashMap.size\n\n        override fun checkIsMutable(): Unit = this@LinkedHashMap.checkIsMutable()\n    }\n\n\n    /*\n     * The head of the insert order chain, which is a doubly-linked circular\n     * list.\n     *\n     * The most recently inserted node is at the end of the chain, ie.\n     * chain.prev.\n     */\n    private var head: ChainEntry<K, V>? = null\n\n    /**\n     * Add this node to the end of the chain.\n     */\n    private fun ChainEntry<K, V>.addToEnd() {\n        // This entry is not in the list.\n        check(next == null && prev == null)\n\n        val _head = head\n        if (_head == null) {\n            head = this\n            next = this\n            prev = this\n        } else {\n            // Chain is valid.\n            val _tail = checkNotNull(_head.prev)\n            // Update me.\n            prev = _tail\n            next = _head\n            // Update my new siblings: current head and old tail\n            _head.prev = this\n            _tail.next = this\n        }\n    }\n\n    /**\n     * Remove this node from the chain it is a part of.\n     */\n    private fun ChainEntry<K, V>.remove() {\n        if (this.next === this) {\n            // if this is single element, remove head\n            head = null\n        } else {\n            if (head === this) {\n                // if this is first element, move head to next\n                head = next\n            }\n            next!!.prev = prev\n            prev!!.next = next\n        }\n        next = null\n        prev = null\n    }\n\n    /*\n     * The hashmap that keeps track of our entries and the chain. Note that we\n     * duplicate the key here to eliminate changes to HashMap and minimize the\n     * code here, at the expense of additional space.\n     */\n    private val map: HashMap<K, ChainEntry<K, V>>\n\n    private var isReadOnly: Boolean = false\n\n    /**\n     * Constructs an empty [LinkedHashMap] instance.\n     */\n    actual constructor() : super() {\n        map = HashMap<K, ChainEntry<K, V>>()\n    }\n\n    internal constructor(backingMap: HashMap<K, Any>) : super() {\n        @Suppress(\"UNCHECKED_CAST\") // expected to work due to erasure\n        map = backingMap as HashMap<K, ChainEntry<K, V>>\n    }\n\n    /**\n     * Constructs an empty [LinkedHashMap] instance.\n     *\n     * @param  initialCapacity the initial capacity (ignored)\n     * @param  loadFactor      the load factor (ignored)\n     *\n     * @throws IllegalArgumentException if the initial capacity or load factor are negative\n     */\n    actual constructor(initialCapacity: Int, loadFactor: Float) : super(initialCapacity, loadFactor) {\n        map = HashMap<K, ChainEntry<K, V>>()\n    }\n\n    actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\n\n    /**\n     * Constructs an instance of [LinkedHashMap] filled with the contents of the specified [original] map.\n     */\n    actual constructor(original: Map<out K, V>) {\n        map = HashMap<K, ChainEntry<K, V>>()\n        this.putAll(original)\n    }\n\n    @PublishedApi\n    internal fun build(): Map<K, V> {\n        checkIsMutable()\n        isReadOnly = true\n        return this\n    }\n\n    actual override fun clear() {\n        checkIsMutable()\n        map.clear()\n        head = null\n    }\n\n\n//    override fun clone(): Any {\n//        return LinkedHashMap(this)\n//    }\n\n\n    actual override fun containsKey(key: K): Boolean = map.containsKey(key)\n\n    actual override fun containsValue(value: V): Boolean {\n        var node: ChainEntry<K, V> = head ?: return false\n        do {\n            if (node.value == value) {\n                return true\n            }\n            node = node.next!!\n        } while (node !== head)\n        return false\n    }\n\n\n    internal override fun createEntrySet(): MutableSet<MutableMap.MutableEntry<K, V>> = EntrySet()\n\n    actual override operator fun get(key: K): V? = map.get(key)?.value\n\n    actual override fun put(key: K, value: V): V? {\n        checkIsMutable()\n\n        val old = map.get(key)\n        if (old == null) {\n            val newEntry = ChainEntry(key, value)\n            map.put(key,
```

newEntry)\n newEntry.addToEnd()\n return null\n } else {\n return old.setValue(value)\n }\n }\n\n actual override fun remove(key: K): V? {\n checkIsMutable()\n\n val entry = map.remove(key)\n if (entry != null) {\n entry.remove()\n return entry.value\n }\n return null\n }\n\n actual override val size: Int get() = map.size\n\n internal override fun checkIsMutable() {\n if (isReadOnly) throw UnsupportedOperationException()\n }\n}\n\n/**\n * Constructs the specialized implementation of [LinkedHashMap] with [String] keys, which stores the keys as properties of\n * JS object without hashing them.\n */\npublic fun <V> linkedStringMapOf(vararg pairs: Pair<String, V>): LinkedHashMap<String, V> {\n return LinkedHashMap<String, V>(stringMapOf<Any>()).apply { putAll(pairs) }\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n/*\n * Based on GWT LinkedHashSet\n * Copyright 2008 Google Inc.\n */\n\npackage kotlin.collections\n\n/**\n * The implementation of the [MutableSet] interface, backed by a [LinkedHashMap] instance.\n *\n * This implementation preserves the insertion order of elements during the iteration.\n */\npublic actual open class LinkedHashSet<E> : HashSet<E>, MutableSet<E> {\n\n internal constructor(map: LinkedHashMap<E, Any>) : super(map)\n\n /**\n * Constructs a new empty [LinkedHashSet].\n */\n actual constructor() : super(LinkedHashMap<E, Any>())\n\n /**\n * Constructs a new [LinkedHashSet] filled with the elements of the specified collection.\n */\n actual constructor(elements: Collection<E>) : super(LinkedHashMap<E, Any>()) {\n addAll(elements)\n }\n\n /**\n * Constructs a new empty [LinkedHashSet].\n *\n * @param initialCapacity the initial capacity (ignored)\n * @param loadFactor the load factor (ignored)\n *\n * @throws IllegalArgumentException if the initial capacity or load factor are negative\n */\n actual constructor(initialCapacity: Int, loadFactor: Float) : super(LinkedHashMap<E, Any>(initialCapacity, loadFactor))\n\n actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\n\n @PublishedApi\n internal fun build(): Set<E> {\n (map as LinkedHashMap<E, Any>).build()\n return this\n }\n\n internal override fun checkIsMutable(): Unit = map.checkIsMutable()\n\n// public override fun clone(): Any {\n// return LinkedHashSet(this)\n// }\n\n}\n\n/**\n * Creates a new instance of the specialized implementation of [LinkedHashSet] with the specified [String] elements,\n * which elements the keys as properties of JS object without hashing them.\n */\npublic fun linkedStringSetOf(vararg elements: String): LinkedHashSet<String> {\n return LinkedHashSet(linkedStringMapOf<Any>()).apply { addAll(elements) }\n}\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport kotlin.contracts.*\n\n\n@DeprecatedSinceKotlin(warningSince = \"1.6\")\n@Deprecated(\"Synchronization on any object is not supported in Kotlin/JS\", ReplaceWith(\"run(block)\"))\n@kotlin.internal.InlineOnly\n@Suppress(\"UNUSED_PARAMETER\")\npublic inline fun <R> synchronized(lock: Any, block: () -> R): R {\n contract {\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n }\n return block()\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.io\n\ninternal abstract class BaseOutput {\n open fun println() {\n print(\"\\n\")\n }\n\n open fun println(message: Any?) {\n print(message)\n println()\n }\n\n abstract fun print(message: Any?)\n\n open fun flush() {}\n}\n\n/** JsName used to make the declaration available outside of module to test it */\n@JsName(\"NodeJsOutput\")\ninternal class NodeJsOutput(val outputStream: dynamic) : BaseOutput() {\n override fun print(message: Any?) {\n // TODO: Using local variable because of bug in block decomposition lowering in IR backend\n val messageString = String(message)\n outputStream.write(messageString)\n }\n}\n\n/** JsName used to make the declaration available outside of module to test it */\n@JsName(\"OutputToConsoleLog\")\ninternal class OutputToConsoleLog

: BaseOutput() {\n    override fun print(message: Any?) {\n        console.log(message)\n    }\n\n    override fun println(message: Any?) {\n        console.log(message)\n    }\n\n    override fun println() {\n        console.log(\"\")\n    }\n}\n\n/** JsName used to make the declaration available outside of module to test it and use at try.kotl.in */\n@JsName(\"BufferedOutput\")\ninternal open class BufferedOutput : BaseOutput() {\n    var buffer = \"\"\n\n    override fun print(message: Any?) {\n        buffer += String(message)\n    }\n\n    override fun flush() {\n        buffer = \"\"\n    }\n}\n\n/** JsName used to make the declaration available outside of module to test it */\n@JsName(\"BufferedOutputToConsoleLog\")\ninternal class BufferedOutputToConsoleLog : BufferedOutput() {\n    override fun print(message: Any?) {\n        var s = String(message)\n        val i = s.nativeLastIndexOf(\"\\n\", 0)\n        if (i >= 0) {\n            buffer += s.substring(0, i)\n            flush()\n            s = s.substring(i + 1)\n        }\n        buffer += s\n    }\n\n    override fun flush() {\n        console.log(buffer)\n        buffer = \"\"\n    }\n}\n\n/** JsName used to make the declaration available outside of module to test it and use at try.kotl.in */\n@JsName(\"output\")\ninternal var output = run {\n    val isNode: Boolean = js(\"typeof process !== 'undefined' && process.versions && !!process.versions.node\")\n    if (isNode) NodeJsOutput(js(\"process.stdout\")) else BufferedOutputToConsoleLog()\n}\n\n@kotlin.internal.InlineOnly\nprivate inline fun String(value: Any?): String = js(\"String\")(value)\n\n/** Prints the line separator to the standard output stream. */\npublic actual fun println() {\n    output.println()\n}\n\n/** Prints the given [message] and the line separator to the standard output stream. */\npublic actual fun println(message: Any?) {\n    output.println(message)\n}\n\n/** Prints the given [message] to the standard output stream. */\npublic actual fun print(message: Any?) {\n    output.print(message)\n}\n\n@SinceKotlin(\"1.6\")\npublic actual fun readln(): String = throw UnsupportedOperationException(\"readln is not supported in Kotlin/JS\")\n\n@SinceKotlin(\"1.6\")\npublic actual fun readlnOrNull(): String? = throw UnsupportedOperationException(\"readlnOrNull is not supported in Kotlin/JS\")","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines\n\nimport kotlin.coroutines.intrinsics.CoroutineSingletons.*\nimport kotlin.coroutines.intrinsics.COROUTINE_SUSPENDED\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\ninternal actual class SafeContinuation<in T>\ninternal actual constructor(\n    private val delegate: Continuation<T>,\n    initialResult: Any?\n) : Continuation<T> {\n    @PublishedApi\n    internal actual constructor(delegate: Continuation<T>) : this(delegate, UNDECIDED)\n\n    public actual override val context: CoroutineContext\n        get() = delegate.context\n\n    private var result: Any? = initialResult\n\n    public actual override fun resumeWith(result: Result<T>) {\n        val cur = this.result\n        when {\n            cur === UNDECIDED -> {\n                this.result = result.value\n            }\n            cur === COROUTINE_SUSPENDED -> {\n                this.result = RESUMED\n                delegate.resumeWith(result)\n            }\n            else -> throw IllegalStateException(\"Already resumed\")\n        }\n    }\n\n    @PublishedApi\n    internal actual fun getOrThrow(): Any? {\n        if (result === UNDECIDED) {\n            result = COROUTINE_SUSPENDED\n            return COROUTINE_SUSPENDED\n        }\n        val result = this.result\n        return when {\n            result === RESUMED -> COROUTINE_SUSPENDED // already called continuation, indicate COROUTINE_SUSPENDED upstream\n            result is Result.Failure -> throw result.exception\n            else -> result // either COROUTINE_SUSPENDED or data\n        }\n    }\n}\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines.cancellation\n\n@SinceKotlin(\"1.4\")\npublic actual open class CancellationException : IllegalStateException {\n    actual constructor() : super()\n    actual constructor(message: String?) : super(message)\n    constructor(message: String?, cause: Throwable?) : super(message, cause)\n    constructor(cause: Throwable?) : super(cause)\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines.js.internal\n\nimport kotlin.coroutines.Continuation\nimport

kotlin.coroutines.EmptyCoroutineContext\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\ninternal val EmptyContinuation = Continuation<Any?>(EmptyCoroutineContext) { result ->\n    result.getOrThrow()\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n/**\n * Exposes the [Date API](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Date) to Kotlin.\n */\n@Suppress(\"NOT_DOCUMENTED\")\npublic external class Date() {\n    public constructor(milliseconds: Number)\n\n    public constructor(dateString: String)\n\n    public constructor(year: Int, month: Int)\n\n    public constructor(year: Int, month: Int, day: Int)\n\n    public constructor(year: Int, month: Int, day: Int, hour: Int)\n\n    public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int)\n\n    public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int)\n\n    public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int, millisecond: Number)\n\n\n    public fun getDate(): Int\n\n    public fun getDay(): Int\n\n    public fun getFullYear(): Int\n\n    public fun getHours(): Int\n\n    public fun getMilliseconds(): Int\n\n    public fun getMinutes(): Int\n\n    public fun getMonth(): Int\n\n    public fun getSeconds(): Int\n\n    public fun getTime(): Double\n\n    public fun getTimezoneOffset(): Int\n\n    public fun getUTCDate(): Int\n\n    public fun getUTCDay(): Int\n\n    public fun getUTCFullYear(): Int\n\n    public fun getUTCHours(): Int\n\n    public fun getUTCMilliseconds(): Int\n\n    public fun getUTCMinutes(): Int\n\n    public fun getUTCMonth(): Int\n\n    public fun getUTCSeconds(): Int\n\n    public fun toDateString(): String\n\n    public fun toISOString(): String\n\n    public fun toJSON(): Json\n\n    public fun toLocaleDateString(locales: Array<String> = definedExternally, options: LocaleOptions = definedExternally): String\n\n    public fun toLocaleDateString(locales: String, options: LocaleOptions = definedExternally): String\n\n    public fun toLocaleString(locales: Array<String> = definedExternally, options: LocaleOptions = definedExternally): String\n\n    public fun toLocaleString(locales: String, options: LocaleOptions = definedExternally): String\n\n    public fun toLocaleTimeString(locales: Array<String> = definedExternally, options: LocaleOptions = definedExternally): String\n\n    public fun toLocaleTimeString(locales: String, options: LocaleOptions = definedExternally): String\n\n    public fun toTimeString(): String\n\n    public fun toUTCString(): String\n\n    public companion object {\n        public fun now(): Double\n\n        public fun parse(dateString: String): Double\n\n        public fun UTC(year: Int, month: Int): Double\n\n        public fun UTC(year: Int, month: Int, day: Int): Double\n\n        public fun UTC(year: Int, month: Int, day: Int, hour: Int): Double\n\n        public fun UTC(year: Int, month: Int, day: Int, hour: Int, minute: Int): Double\n\n        public fun UTC(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int): Double\n\n        public fun UTC(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int, millisecond: Number): Double\n    }\n\npublic interface LocaleOptions {\n        public var localeMatcher: String?\n\n        public var timeZone: String?\n\n        public var hour12: Boolean?\n\n        public var formatMatcher: String?\n\n        public var weekday: String?\n\n        public var era: String?\n\n        public var year: String?\n\n        public var month: String?\n\n        public var day: String?\n\n        public var hour: String?\n\n        public var minute: String?\n\n        public var second: String?\n\n        public var timeZoneName: String?\n    }\n}\n\npublic inline fun dateLocaleOptions(init: Date.LocaleOptions.() -> Unit): Date.LocaleOptions {\n    val result = js(\"new Object()\").unsafeCast<Date.LocaleOptions>()\n    init(result)\n    return result\n}","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.dom\n\nimport org.w3c.dom.Document\nimport org.w3c.dom.Element\nimport kotlin.internal.LowPriorityInOverloadResolution\nimport kotlinx.dom.appendElement as newAppendElement\nimport kotlinx.dom.createElement as newCreateElement\n\n/**\n * Creates a new element with the specified [name].\n *\n * The element is initialized with the specified [init] function.\n */\n@LowPriorityInOverloadResolution\n@Deprecated(\n    message = \"This API is moved to another package, use 'kotlinx.dom.createElement' instead.\",\n    replaceWith = ReplaceWith(\"this.createElement(name, init)\", \"kotlinx.dom.createElement\")\n)\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\npublic

inline fun Document.createElement(name: String, noinline init: Element.() -> Unit): Element = this.newCreateElement(name, init)\n\n/**\n * Appends a newly created element with the specified [name] to this element.\n *\n * The element is initialized with the specified [init] function.\n */\n@LowPriorityInOverloadResolution\n@Deprecated(\n message = \"This API is moved to another package, use 'kotlinx.dom.appendElement' instead.\",\n replaceWith = ReplaceWith(\"this.appendElement(name, init)\", \"kotlinx.dom.appendElement\")\n)\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\npublic inline fun Element.appendElement(name: String, noinline init: Element.() -> Unit): Element = this.newAppendElement(name, init)\n\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.dom\n\nimport org.w3c.dom.Element\nimport kotlin.internal.LowPriorityInOverloadResolution\nimport kotlinx.dom.addClass as newAddClass\nimport kotlinx.dom.hasClass as newHasClass\nimport kotlinx.dom.removeClass as newRemoveClass\n\n/** Returns true if the element has the given CSS class style in its 'class' attribute */\n@LowPriorityInOverloadResolution\n@Deprecated(\n message = \"This API is moved to another package, use 'kotlinx.dom.hasClass' instead.\",\n replaceWith = ReplaceWith(\"this.hasClass(cssClass)\", \"kotlinx.dom.hasClass\")\n)\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\ninline fun Element.hasClass(cssClass: String): Boolean = this.newHasClass(cssClass)\n\n/**\n * Adds CSS class to element. Has no effect if all specified classes are already in class attribute of the element\n *\n * @return true if at least one class has been added\n */\n@LowPriorityInOverloadResolution\n@Deprecated(\n message = \"This API is moved to another package, use 'kotlinx.dom.addClass' instead.\",\n replaceWith = ReplaceWith(\"this.addClass(cssClasses)\", \"kotlinx.dom.addClass\")\n)\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\ninline fun Element.addClass(vararg cssClasses: String): Boolean = this.newAddClass(*cssClasses)\n\n/**\n * Removes all [cssClasses] from element. Has no effect if all specified classes are missing in class attribute of the element\n *\n * @return true if at least one class has been removed\n */\n@LowPriorityInOverloadResolution\n@Deprecated(\n message = \"This API is moved to another package, use 'kotlinx.dom.removeClass' instead.\",\n replaceWith = ReplaceWith(\"this.removeClass(cssClasses)\", \"kotlinx.dom.removeClass\")\n)\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\ninline fun Element.removeClass(vararg cssClasses: String): Boolean = this.newRemoveClass(*cssClasses)","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.dom\n\nimport org.w3c.dom.Element\nimport org.w3c.dom.Node\nimport kotlin.internal.LowPriorityInOverloadResolution\nimport kotlinx.dom.isElement as newIsElement\nimport kotlinx.dom.isText as newIsText\n\n/**\n * Gets a value indicating whether this node is a TEXT_NODE or a CDATA_SECTION_NODE.\n */\n@LowPriorityInOverloadResolution\n@Deprecated(\n message = \"This API is moved to another package, use 'kotlinx.dom.isText' instead.\",\n replaceWith = ReplaceWith(\"this.isText\", \"kotlinx.dom.isText\")\n)\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\npublic val Node.isText: Boolean\n inline get() = this.newIsText\n\n/**\n * Gets a value indicating whether this node is an [Element].\n */\n@LowPriorityInOverloadResolution\n@Deprecated(\n message = \"This API is moved to another package, use 'kotlinx.dom.isElement' instead.\",\n replaceWith = ReplaceWith(\"this.isElement\", \"kotlinx.dom.isElement\")\n)\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\npublic val Node.isElement: Boolean\n inline get() = this.newIsElement\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage org.w3c.dom.events\n\npublic fun EventListener(handler: (Event) -> Unit): EventListener = EventListenerHandler(handler)\n\nprivate class EventListenerHandler(private val handler: (Event) -> Unit) : EventListener {\n public override fun handleEvent(event: Event) {\n handler(event)\n }\n\n public override fun toString(): String = \"EventListenerHandler($handler)\"\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0

license that can be found in the license/LICENSE.txt file.\n */\n\npackage org.w3c.dom\n\npublic external interface ItemArrayLike<out T> {\n val length: Int\n fun item(index: Int): T?\n}\n\n/**\n * Returns the view of this `ItemArrayLike<T>` collection as `List<T>`\n */\npublic fun <T> ItemArrayLike<T>.asList(): List<T> = object : AbstractList<T>() {\n override val size: Int get() = this@asList.length\n\n override fun get(index: Int): T = when (index) {\n in 0..lastIndex -> this@asList.item(index).unsafeCast<T>()\n else -> throw IndexOutOfBoundsException(\"index $index is not in range [0..$lastIndex]\")\n }\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.dom\n\nimport org.w3c.dom.Element\nimport org.w3c.dom.Node\nimport kotlin.internal.LowPriorityInOverloadResolution\nimport kotlinx.dom.appendText as newAppendText\nimport kotlinx.dom.clear as newClear\n\n/** Removes all the children from this node. */\n@LowPriorityInOverloadResolution\n@Deprecated(\n message = \"This API is moved to another package, use 'kotlinx.dom.clear' instead.\",\n replaceWith = ReplaceWith(\"this.clear()\", \"kotlinx.dom.clear\")\n)\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\npublic inline fun Node.clear() = this.newClear()\n\n/**\n * Creates text node and append it to the element.\n *\n * @return this element\n */\n@LowPriorityInOverloadResolution\n@Deprecated(\n message = \"This API is moved to another package, use 'kotlinx.dom.appendText' instead.\",\n replaceWith = ReplaceWith(\"this.appendText(text)\", \"kotlinx.dom.appendText\")\n)\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\ninline fun Element.appendText(text: String): Element = this.newAppendText(text)\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n/**\n * Reinterprets this value as a value of the [dynamic type](/docs/reference/dynamic-type.html).\n */\n@kotlin.internal.InlineOnly\npublic inline fun Any?.asDynamic(): dynamic = this\n\n/**\n * Reinterprets this value as a value of the specified type [T] without any actual type checking.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Any?.unsafeCast(): @kotlin.internal.NoInfer T = this.asDynamic()\n\n/**\n * Reinterprets this `dynamic` value as a value of the specified type [T] without any actual type checking.\n */\n@kotlin.internal.DynamicExtension\n@JsName(\"unsafeCastDynamic\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> dynamic.unsafeCast(): @kotlin.internal.NoInfer T = this\n\n/**\n * Allows to iterate this `dynamic` object in the following cases:\n * - when it has an `iterator` function,\n * - when it is an array\n * - when it is an instance of [kotlin.collections.Iterable]\n */\n@kotlin.internal.DynamicExtension\npublic operator fun dynamic.iterator(): Iterator<dynamic> {\n val r: Any? = this\n\n return when {\n this[\"iterator\"] != null ->\n this[\"iterator\"]()\n isArrayish(r) ->\n r.unsafeCast<Array<*>>().iterator()\n\n else ->\n (r as Iterable<*>).iterator()\n }\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// a package is omitted to get declarations directly under the module\n\n@JsName(\"throwNPE\")\ninternal fun throwNPE(message: String) {\n throw NullPointerException(message)\n}\n\n@JsName(\"throwCCE\")\ninternal fun throwCCE() {\n throw ClassCastException(\"Illegal cast\")\n}\n\n@JsName(\"throwISE\")\ninternal fun throwISE(message: String) {\n throw IllegalStateException(message)\n}\n\n@JsName(\"throwUPAE\")\ninternal fun throwUPAE(propertyName: String) {\n throw UninitializedPropertyAccessException(\"lateinit property ${propertyName} has not been initialized\")\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\npackage kotlin.collections\n\n/**\n * Groups elements from the [Grouping] source by key and counts elements in each group.\n *\n * @return a [Map] associating the key of each group with the count of elements in the group.\n *\n * @sample samples.collections.Grouping.groupingByEachCount\n */\n@SinceKotlin(\"1.1\")\npublic actual fun <T, K> Grouping<T, K>.eachCount(): Map<K, Int> =\n fold(0) { acc, _ -> acc + 1 }\n\n/*\n/**\n * Groups elements from

the [Grouping] source by key and sums values provided by the [valueSelector] function for elements in each group.\n *\n * @return a [Map] associating the key of each
group with the count of element in the group.\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <T, K> Grouping<T, K>.eachSumOf(valueSelector: (T) -> Int): Map<K, Int> =\n fold(0) { acc, e -> acc + valueSelector(e) }\n*/","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmName(\"GroupingKt\")\n@file:kotlin.jvm.JvmMultifileClass\n\npackage kotlin.collections\n\n/**\n * Represents a source of elements with a [keyOf] function, which can be applied to each element to get its key.\n *\n * A [Grouping] structure serves as an intermediate step in group-and-fold operations:\n * they group elements by their keys and then fold each group with some aggregating operation.\n *\n * It is created by attaching `keySelector: (T) -> K` function to a source of elements.\n * To get an instance of [Grouping] use one of `groupingBy`
extension functions:\n * - [Iterable.groupingBy]\n * - [Sequence.groupingBy]\n * - [Array.groupingBy]\n * - [CharSequence.groupingBy]\n *\n * For the list of group-and-fold operations available, see the [extension functions](#extension-functions) for `Grouping`.\n */\n@SinceKotlin(\"1.1\")\npublic interface Grouping<T, out K> {\n /** Returns an [Iterator] over the elements of the source of this grouping. */\n fun sourceIterator(): Iterator<T>\n /** Extracts the key of an [element]. */\n fun keyOf(element: T): K\n}\n\n/**\n * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially,\n * passing the previously accumulated value and the current element as arguments, and stores the results in a new map.\n *\n * The key for each element is provided by the [Grouping.keyOf] function.\n *\n * @param operation function is invoked on each element with the following parameters:\n * - `key`: the key of the group this
element belongs to;\n * - `accumulator`: the current value of the accumulator of the group, can be `null` if it's the first `element` encountered in the group;\n * - `element`: the element from the source being aggregated;\n * - `first`: indicates whether it's the first `element` encountered in the group.\n *\n * @return a [Map] associating the key of each group with the result of aggregation of the group elements.\n * @sample samples.collections.Grouping.aggregateByRadix\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <T, K, R> Grouping<T, K>.aggregate(\n operation: (key: K, accumulator: R?, element: T, first: Boolean) -> R\n): Map<K, R> {\n return aggregateTo(mutableMapOf<K, R>(), operation)\n}\n\n/**\n * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially,\n * passing the previously accumulated value and the current element as arguments,\n * and stores the results in the given [destination] map.\n *\n * The
key for each element is provided by the [Grouping.keyOf] function.\n *\n * @param operation a function that is invoked on each element with the following parameters:\n * - `key`: the key of the group this element belongs to;\n * - `accumulator`: the current value of the accumulator of the group, can be `null` if it's the first `element` encountered in the group;\n * - `element`: the element from the source being aggregated;\n * - `first`: indicates whether it's the first `element` encountered in the group.\n *\n * If the [destination] map already has a value corresponding to some key,\n * then the elements being aggregated for that key are never considered as `first`.\n *\n * @return the [destination] map associating the key of each group with the result of aggregation of the group elements.\n * @sample samples.collections.Grouping.aggregateByRadixTo\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T, K>.aggregateTo(\n destination: M,\n operation: (key: K, accumulator: R?, element: T, first: Boolean) -> R\n): M {\n for (e in this.sourceIterator()) {\n val key = keyOf(e)\n val accumulator = destination[key]\n destination[key] = operation(key, accumulator, e, accumulator == null && !destination.containsKey(key))\n }\n return destination\n}\n\n/**\n * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially,\n * passing the previously accumulated value and the current element as arguments, and stores the results in a new map.\n * An initial value of accumulator is provided by [initialValueSelector] function.\n *\n * @param initialValueSelector a function that provides an initial value of accumulator for each group.\n * It's invoked with parameters:\n * - `key`: the key of the group;\n * - `element`: the first element being encountered in

that group.\n *\n * @param operation a function that is invoked on each element with the following parameters:\n *  - `key`: the key of the group this element belongs to;\n *  - `accumulator`: the current value of the accumulator of the group;\n *  - `element`: the element from the source being accumulated.\n *\n * @return a [Map] associating the key of each group with the result of accumulating the group elements.\n * @sample samples.collections.Grouping.foldByEvenLengthWithComputedInitialValue\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <T, K, R> Grouping<T, K>.fold(\n    initialValueSelector: (key: K, element: T) -> R,\n    operation: (key: K, accumulator: R, element: T) -> R\n): Map<K, R> =\n    @Suppress(\"UNCHECKED_CAST\")\n    aggregate { key, acc, e, first -> operation(key, if (first) initialValueSelector(key, e) else acc as R, e) }\n\n/**\n * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially,\n * passing the previously accumulated value and the current element as arguments,\n * and stores the results in the given [destination] map.\n * An initial value of accumulator is provided by [initialValueSelector] function.\n *\n * @param initialValueSelector a function that provides an initial value of accumulator for each group.\n *  It's invoked with parameters:\n *  - `key`: the key of the group;\n *  - `element`: the first element being encountered in that group.\n *\n * If the [destination] map already has a value corresponding to some key, that value is used as an initial value of\n * the accumulator for that group and the [initialValueSelector] function is not called for that group.\n *\n * @param operation a function that is invoked on each element with the following parameters:\n *  - `key`: the key of the group this element belongs to;\n *  - `accumulator`: the current value of the accumulator of the group;\n *  - `element`: the element from the source being accumulated.\n *\n * @return the [destination] map associating the key of each group with the result of accumulating the group elements.\n * @sample samples.collections.Grouping.foldByEvenLengthWithComputedInitialValueTo\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T, K>.foldTo(\n    destination: M,\n    initialValueSelector: (key: K, element: T) -> R,\n    operation: (key: K, accumulator: R, element: T) -> R\n): M =\n    @Suppress(\"UNCHECKED_CAST\")\n    aggregateTo(destination) { key, acc, e, first -> operation(key, if (first) initialValueSelector(key, e) else acc as R, e) }\n\n/**\n * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially,\n * passing the previously accumulated value and the current element as arguments, and stores the results in a new map.\n * An initial value of accumulator is the same [initialValue] for each group.\n *\n * @param operation a function that is invoked on each element with the following parameters:\n *  - `accumulator`: the current value of the accumulator of the group;\n *  - `element`: the element from the source being accumulated.\n *\n * @return a [Map] associating the key of each group with the result of accumulating the group elements.\n * @sample samples.collections.Grouping.foldByEvenLengthWithConstantInitialValue\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <T, K, R> Grouping<T, K>.fold(\n    initialValue: R,\n    operation: (accumulator: R, element: T) -> R\n): Map<K, R> =\n    @Suppress(\"UNCHECKED_CAST\")\n    aggregate { _, acc, e, first -> operation(if (first) initialValue else acc as R, e) }\n\n/**\n * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially,\n * passing the previously accumulated value and the current element as arguments,\n * and stores the results in the given [destination] map.\n * An initial value of accumulator is the same [initialValue] for each group.\n *\n * If the [destination] map already has a value corresponding to the key of some group,\n * that value is used as an initial value of the accumulator for that group.\n *\n * @param operation a function that is invoked on each element with the following parameters:\n *  - `accumulator`: the current value of the accumulator of the group;\n *  - `element`: the element from the source being accumulated.\n *\n * @return the [destination] map associating the key of each group with the result of accumulating the group elements.\n * @sample samples.collections.Grouping.foldByEvenLengthWithConstantInitialValueTo\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T, K>.foldTo(\n    destination: M,\n    initialValue: R,\n    operation: (accumulator: R, element: T) -> R\n): M =\n    @Suppress(\"UNCHECKED_CAST\")\n    aggregateTo(destination) { _, acc, e, first -> operation(if (first) initialValue else acc as R, e) }\n\n/**\n * Groups elements from the [Grouping] source by key and applies the reducing [operation] to the elements of each

group\n * sequentially starting from the second element of the group,\n * passing the previously accumulated value and the current element as arguments,\n * and stores the results in a new map.\n * An initial value of accumulator is the first element of the group.\n *\n * @param operation a function that is invoked on each subsequent element of the group with the following parameters:\n *  - `key`: the key of the group this element belongs to;\n *  - `accumulator`: the current value of the accumulator of the group;\n *  - `element`: the element from the source being accumulated.\n *\n * @return a [Map] associating the key of each group with the result of accumulating the group elements.\n * @sample samples.collections.Grouping.reduceByMaxVowels\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <S, T : S, K> Grouping<T, K>.reduce(\n    operation: (key: K, accumulator: S, element: T) -> S\n): Map<K, S> =\n    aggregate { key, acc, e, first ->\n        @Suppress(\"UNCHECKED_CAST\")\n  if (first) e else operation(key, acc as S, e)\n    }\n\n/**\n * Groups elements from the [Grouping] source by key and applies the reducing [operation] to the elements of each group\n * sequentially starting from the second element of the group,\n * passing the previously accumulated value and the current element as arguments,\n * and stores the results in the given [destination] map.\n * An initial value of accumulator is the first element of the group.\n *\n * If the [destination] map already has a value corresponding to the key of some group,\n * that value is used as an initial value of the accumulator for that group and the first element of that group is also\n * subjected to the [operation].\n\n * @param operation a function that is invoked on each subsequent element of the group with the following parameters:\n *  - `accumulator`: the current value of the accumulator of the group;\n *  - `element`: the element from the source being folded;\n *\n * @return the [destination] map associating
 the key of each group with the result of accumulating the group elements.\n * @sample samples.collections.Grouping.reduceByMaxVowelsTo\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <S, T : S, K, M : MutableMap<in K, S>> Grouping<T, K>.reduceTo(\n    destination: M,\n    operation: (key: K, accumulator: S, element: T) -> S\n): M =\n    aggregateTo(destination) { key, acc, e, first ->\n        @Suppress(\"UNCHECKED_CAST\")\n        if (first) e else operation(key, acc as S, e)\n    }\n\n\n/**\n * Groups elements from the [Grouping] source by key and counts elements in each group to the given [destination] map.\n *\n * If the [destination] map already has a value corresponding to the key of some group,\n * that value is used as an initial value of the counter for that group.\n *\n * @return the [destination] map associating the key of each group with the count of elements in the group.\n *\n * @sample samples.collections.Grouping.groupingByEachCount\n */\n@SinceKotlin(\"1.1\")\npublic
 fun <T, K, M : MutableMap<in K, Int>> Grouping<T, K>.eachCountTo(destination: M): M =\n    foldTo(destination, 0) { acc, _ -> acc + 1 }\n\n/*\n/**\n * Groups elements from the [Grouping] source by key and sums values provided by the [valueSelector] function for elements in each group\n * to the given [destination] map.\n *\n *\n * If the [destination] map already has a value corresponding to the key of some group,\n * that value is used as an initial value of the sum for that group.\n *\n * @return the [destination] map associating the key of each group with the sum of elements in the group.\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <T, K, M : MutableMap<in K, Int>> Grouping<T, K>.eachSumOfTo(destination: M, valueSelector: (T) -> Int): M =\n    foldTo(destination, 0) { acc, e -> acc + valueSelector(e)}\n*/\n\n\n/*\n// TODO: sum by long and by double overloads\n\npublic inline fun <T, K, M : MutableMap<in K, Long>> Grouping<T, K>.sumEachByLongTo(destination: M, valueSelector:
 (T) -> Long): M =\n        foldTo(destination, 0L) { acc, e -> acc + valueSelector(e)}\n\npublic inline fun <T, K> Grouping<T, K>.sumEachByLong(valueSelector: (T) -> Long): Map<K, Long> =\n        fold(0L) { acc, e -> acc + valueSelector(e)}\n\npublic inline fun <T, K, M : MutableMap<in K, Double>> Grouping<T, K>.sumEachByDoubleTo(destination: M, valueSelector: (T) -> Double): M =\n        foldTo(destination, 0.0) { acc, e -> acc + valueSelector(e)}\n\npublic inline fun <T, K> Grouping<T, K>.sumEachByDouble(valueSelector: (T) -> Double): Map<K, Double> =\n        fold(0.0) { acc, e -> acc + valueSelector(e)}\n*/\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n/**\n * An interface for indexing access to a collection of key-value pairs, where type of key is [String] and type of value is [Any?][Any].\n

```
*/\npublic external interface Json {\n    /**\n     * Calls to the function will be translated to indexing operation (square brackets) on the receiver with [propertyName] as the argument.\n     *\n     * E.g. for next code:\n     * ```kotlin\n     * fun test(j: Json, p: String) = j[\"prop\"] + j.get(p)\n     * ```\n     *\n     * will be generated:\n     * ```js\n     * function test(j, p) {\n     *     return j[\"prop\"] + j[p];\n     * }\n     * ```\n     */\n    operator fun get(propertyName: String): Any?\n\n    /**\n     * Calls of the function will be translated to an assignment of [value] to the receiver indexed (with square brackets/index operation) with [propertyName].\n     *\n     * E.g. for the following code:\n     * ```kotlin\n     * fun test(j: Json, p: String, newValue: Any) {\n     *     j[\"prop\"] = 1\n     *     j.set(p, newValue)\n     * }\n     * ```\n     *\n     * will be generated:\n     * ```js\n     * function test(j, p, newValue) {\n     *     j[\"prop\"]
     = 1;\n     *     j[p] = newValue;\n     * }\n     * }\n     * ```\n     */\n    operator fun set(propertyName: String, value: Any?): Unit\n}\n\n/**\n * Returns a simple JavaScript object (as [Json]) using provided key-value pairs as names and values of its properties.\n */\npublic fun json(vararg pairs: Pair<String, Any?>): Json {\n    val res: dynamic = js(\"({})\")\n    for ((name, value) in pairs) {\n        res[name] = value\n    }\n    return res\n}\n\n/**\n * Adds key-value pairs from [other] to [this].\n * Returns the original receiver.\n */\npublic fun Json.add(other: Json): Json {\n    val keys: Array<String> = js(\"Object\").keys(other)\n    for (key in keys) {\n        if (other.asDynamic().hasOwnProperty(key)) {\n            this[key] = other[key];\n        }\n    }\n    return this\n}\n\n/**\n * Exposes the JavaScript [JSON object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) to Kotlin.\n */\n@Suppress(\"NOT_DOCUMENTED\")\npublic
     external object JSON {\n    public fun stringify(o: Any?): String\n    public fun stringify(o: Any?, replacer: ((key: String, value: Any?) -> Any?)): String\n    public fun stringify(o: Any?, replacer: ((key: String, value: Any?) -> Any?)? = definedExternally, space: Int): String\n    public fun stringify(o: Any?, replacer: ((key: String, value: Any?) -> Any?)? = definedExternally, space: String): String\n    public fun stringify(o: Any?, replacer: Array<String>): String\n    public fun stringify(o: Any?, replacer: Array<String>, space: Int): String\n    public fun stringify(o: Any?, replacer: Array<String>, space: String): String\n\n    public fun <T> parse(text: String): T\n    public fun <T> parse(text: String, reviver: ((key: String, value: Any?) -> Any?)): T\n}\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\npackage
     kotlin.math\n\n\nimport kotlin.internal.InlineOnly\nimport kotlin.js.JsMath as nativeMath\n\n\n// region ================ Double Math =====================================\n\n/** Computes the sine of the angle [x] given in radians.\n *\n *  Special cases:\n *    - `sin(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun sin(x: Double): Double = nativeMath.sin(x)\n\n/** Computes the cosine of the angle [x] given in radians.\n *\n *  Special cases:\n *    - `cos(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun cos(x: Double): Double = nativeMath.cos(x)\n\n/** Computes the tangent of the angle [x] given in radians.\n *\n *  Special cases:\n *    - `tan(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun tan(x: Double): Double = nativeMath.tan(x)\n\n/**\n * Computes the arc sine of the value [x];\n * the returned value is an angle in the range from `-PI/2` to
     `PI/2` radians.\n *\n * Special cases:\n *    - `asin(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun asin(x: Double): Double = nativeMath.asin(x)\n\n/**\n * Computes the arc cosine of the value [x];\n * the returned value is an angle in the range from `0.0` to `PI` radians.\n *\n * Special cases:\n *    - `acos(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun acos(x: Double): Double = nativeMath.acos(x)\n\n/**\n * Computes the arc tangent of the value [x];\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\n *\n * Special cases:\n *    - `atan(NaN)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun atan(x: Double): Double = nativeMath.atan(x)\n\n/**\n * Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond\n * to the rectangular coordinates `(x, y)` by computing the arc tangent
```

of the value [y] / [x];\n * the returned value is an angle in the range from `-PI` to `PI` radians.\n *\n * Special cases:\n *  - `atan2(0.0, 0.0)` is `0.0`\n *  - `atan2(0.0, x)` is `0.0` for `x > 0` and `PI` for `x < 0`\n *  - `atan2(-0.0, x)` is `-0.0` for 'x > 0` and `-PI` for `x < 0`\n *  - `atan2(y, +Inf)` is `0.0` for `0 < y < +Inf` and `-0.0` for '-Inf < y < 0`\n *  - `atan2(y, -Inf)` is `PI` for `0 < y < +Inf` and `-PI` for `-Inf < y < 0`\n *  - `atan2(y, 0.0)` is `PI/2` for `y > 0` and `-PI/2` for `y < 0`\n *  - `atan2(+Inf, x)` is `PI/2` for finite `x`y\n *  - `atan2(-Inf, x)` is `-PI/2` for finite `x`\n *  - `atan2(NaN, x)` and `atan2(y, NaN)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun atan2(y: Double, x: Double): Double = nativeMath.atan2(y, x)\n\n/**\n * Computes the hyperbolic sine of the value [x].\n *\n * Special cases:\n *  - `sinh(NaN)` is `NaN`\n *  - `sinh(+Inf)` is `+Inf`\n *  - `sinh(-Inf)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic
actual inline fun sinh(x: Double): Double = nativeMath.sinh(x)\n\n/**\n * Computes the hyperbolic cosine of the value [x].\n *\n * Special cases:\n *  - `cosh(NaN)` is `NaN`\n *  - `cosh(+Inf|-Inf)` is `+Inf`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun cosh(x: Double): Double = nativeMath.cosh(x)\n\n/**\n * Computes the hyperbolic tangent of the value [x].\n *\n * Special cases:\n *  - `tanh(NaN)` is `NaN`\n *  - `tanh(+Inf)` is `1.0`\n *  - `tanh(-Inf)` is `-1.0`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun tanh(x: Double): Double = nativeMath.tanh(x)\n\n/**\n * Computes the inverse hyperbolic sine of the value [x].\n *\n * The returned value is `y` such that `sinh(y) == x`.\n *\n * Special cases:\n *  - `asinh(NaN)` is `NaN`\n *  - `asinh(+Inf)` is `+Inf`\n *  - `asinh(-Inf)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun asinh(x: Double): Double = nativeMath.asinh(x)\n\n/**\n
 * Computes the inverse hyperbolic cosine of the value [x].\n *\n * The returned value is positive `y` such that `cosh(y) == x`.\n *\n * Special cases:\n *  - `acosh(NaN)` is `NaN`\n *  - `acosh(x)` is `NaN` when `x < 1`\n *  - `acosh(+Inf)` is `+Inf`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun acosh(x: Double): Double = nativeMath.acosh(x)\n\n/**\n * Computes the inverse hyperbolic tangent of the value [x].\n *\n * The returned value is `y` such that `tanh(y) == x`.\n *\n * Special cases:\n *  - `tanh(NaN)` is `NaN`\n *  - `tanh(x)` is `NaN` when `x > 1` or `x < -1`\n *  - `tanh(1.0)` is `+Inf`\n *  - `tanh(-1.0)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun atanh(x: Double): Double = nativeMath.atanh(x)\n\n/**\n * Computes `sqrt(x^2 + y^2)` without intermediate overflow or underflow.\n *\n * Special cases:\n *  - returns `+Inf` if any of arguments is infinite\n *  - returns `NaN` if any of arguments is `NaN` and the
 other is not infinite\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun hypot(x: Double, y: Double): Double = nativeMath.hypot(x, y)\n\n/**\n * Computes the positive square root of the value [x].\n *\n * Special cases:\n *  - `sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun sqrt(x: Double): Double = nativeMath.sqrt(x)\n\n/**\n * Computes Euler's number `e` raised to the power of the value [x].\n *\n * Special cases:\n *  - `exp(NaN)` is `NaN`\n *  - `exp(+Inf)` is `+Inf`\n *  - `exp(-Inf)` is `0.0`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun exp(x: Double): Double = nativeMath.exp(x)\n\n/**\n * Computes `exp(x) - 1`.\n *\n * This function can be implemented to produce more precise result for [x] near zero.\n *\n * Special cases:\n *  - `expm1(NaN)` is `NaN`\n *  - `expm1(+Inf)` is `+Inf`\n *  - `expm1(-Inf)` is `-1.0`\n *\n * @see [exp] function.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic
 actual inline fun expm1(x: Double): Double = nativeMath.expm1(x)\n\n/**\n * Computes the logarithm of the value [x] to the given [base].\n *\n * Special cases:\n *  - `log(x, b)` is `NaN` if either `x` or `b` are `NaN`\n *  - `log(x, b)` is `NaN` when `x < 0` or `b <= 0` or `b == 1.0`\n *  - `log(+Inf, +Inf)` is `NaN`\n *  - `log(+Inf, b)` is `+Inf` for `b > 1` and `-Inf` for `b < 1`\n *  - `log(0.0, b)` is `-Inf` for `b > 1` and `+Inf` for `b > 1`\n *\n * See also logarithm functions for common fixed bases: [ln], [log10] and [log2].\n */\n@SinceKotlin(\"1.2\")\npublic actual fun log(x: Double, base: Double): Double {\n    if (base <= 0.0 || base == 1.0) return Double.NaN\n    return nativeMath.log(x) / nativeMath.log(base)\n}\n\n/**\n * Computes the natural logarithm (base `E`) of the value [x].\n *\n * Special cases:\n *  - `ln(NaN)` is `NaN`\n *  - `ln(x)` is `NaN` when `x < 0.0`\n *  - `ln(+Inf)` is `+Inf`\n *  - `ln(0.0)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic

actual inline fun ln(x: Double): Double = nativeMath.log(x)\n\n/**\n * Computes the common logarithm (base 10) of the value [x].\n *\n * @see [ln] function for special cases.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun log10(x: Double): Double = nativeMath.log10(x)\n\n/**\n * Computes the binary logarithm (base 2) of the value [x].\n *\n * @see [ln] function for special cases.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun log2(x: Double): Double = nativeMath.log2(x)\n\n/**\n * Computes `ln(x + 1)`.\n *\n * This function can be implemented to produce more precise result for [x] near zero.\n *\n * Special cases:\n *  - `ln1p(NaN)` is `NaN`\n *  - `ln1p(x)` is `NaN` where `x < -1.0`\n *  - `ln1p(-1.0)` is `-Inf`\n *  - `ln1p(+Inf)` is `+Inf`\n *\n * @see [ln] function\n * @see [expm1] function\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun ln1p(x: Double): Double = nativeMath.log1p(x)\n\n/**\n
 * Rounds the given value [x] to an integer towards positive infinity.\n\n * @return the smallest double value that is greater than or equal to the given value [x] and is a mathematical integer.\n *\n * Special cases:\n *  - `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n
*/\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun ceil(x: Double): Double = nativeMath.ceil(x)\n\n/**\n * Rounds the given value [x] to an integer towards negative infinity.\n\n * @return the largest double value that is smaller than or equal to the given value [x] and is a mathematical integer.\n *\n * Special cases:\n *  - `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n
*/\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun floor(x: Double): Double = nativeMath.floor(x)\n\n/**\n * Rounds the given value [x] to an integer towards zero.\n *\n * @return the value [x] having its fractional part truncated.\n
 *\n * Special cases:\n *  - `truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun truncate(x: Double): Double = nativeMath.trunc(x)\n\n/**\n * Rounds the given value [x] towards the closest integer with ties rounded towards even integer.\n *\n * Special cases:\n *  - `round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\npublic actual fun round(x: Double): Double {\n    if (x % 0.5 != 0.0) {\n        return nativeMath.round(x)\n    }\n    val floor = floor(x)\n    return if (floor % 2 == 0.0) floor else ceil(x)\n}\n\n/**\n * Returns the absolute value of the given value [x].\n *\n * Special cases:\n *  - `abs(NaN)` is `NaN`\n *\n * @see absoluteValue extension property for [Double]\n
*/\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun abs(x: Double): Double = nativeMath.abs(x)\n\n/**\n * Returns
 the sign of the given value [x]:\n *  - `-1.0` if the value is negative,\n *  - zero if the value is zero,\n *  - `1.0` if the value is positive\n *\n * Special case:\n *  - `sign(NaN)` is `NaN`\n
*/\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun sign(x: Double): Double = nativeMath.sign(x)\n\n\n/**\n * Returns the smaller of two values.\n *\n * If either value is `NaN`, then the result is `NaN`.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun min(a: Double, b: Double): Double = nativeMath.min(a, b)\n\n/**\n * Returns the greater of two values.\n *\n * If either value is `NaN`, then the result is `NaN`.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun max(a: Double, b: Double): Double = nativeMath.max(a, b)\n\n// extensions\n\n/**\n * Raises this value to the power [x].\n *\n * Special cases:\n *  - `b.pow(0.0)` is `1.0`\n *  - `b.pow(1.0) == b`\n *  - `b.pow(NaN)` is `NaN`\n *  - `NaN.pow(x)` is `NaN` for `x != 0.0`\n *
 - `b.pow(Inf)` is `NaN` for `abs(b) == 1.0`\n *  - `b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun Double.pow(x: Double): Double = nativeMath.pow(this, x)\n\n/**\n * Raises this value to the integer power [n].\n *\n * See the other overload of [pow] for details.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun Double.pow(n: Int): Double = nativeMath.pow(this, n.toDouble())\n\n/**\n * Returns the absolute value of this value.\n *\n * Special cases:\n *  - `NaN.absoluteValue` is `NaN`\n *\n * @see abs function\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline val Double.absoluteValue: Double get() = nativeMath.abs(this)\n\n/**\n * Returns the sign of this value:\n *  - `-1.0` if the value is negative,\n *  - zero if the value is zero,\n *  - `1.0` if the value is positive\n *\n * Special case:\n *  - `NaN.sign` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic

```
actual inline val Double.sign: Double get() = nativeMath.sign(this)\n\n/**\n * Returns this value with the sign bit same as of the [sign] value.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun Double.withSign(sign: Int): Double = this.withSign(sign.toDouble())\n\n/**\n * Returns the ulp (unit in the last place) of this value.\n *\n * An ulp is a positive distance between this value and the next nearest [Double] value larger in magnitude.\n *\n * Special Cases:\n *   - `NaN.ulp` is `NaN`\n *   - `x.ulp` is `+Inf` when `x` is `+Inf` or `-Inf`\n *   - `0.0.ulp` is `Double.MIN_VALUE`\n */\n@SinceKotlin(\"1.2\")\npublic actual val Double.ulp: Double get() = when {\n    this < 0 -> (-this).ulp\n    this.isNaN() || this == Double.POSITIVE_INFINITY -> this\n    this == Double.MAX_VALUE -> this - this.nextDown()\n    else -> this.nextUp() - this\n}\n\n/**\n * Returns the [Double] value nearest to this value in direction of positive infinity.\n */\n@SinceKotlin(\"1.2\")\npublic
 actual fun Double.nextUp(): Double = when {\n    this.isNaN() || this == Double.POSITIVE_INFINITY -> this\n    this == 0.0 -> Double.MIN_VALUE\n    else -> Double.fromBits(this.toRawBits() + if (this > 0) 1 else -1)\n}\n\n/**\n * Returns the [Double] value nearest to this value in direction of negative infinity.\n */\n@SinceKotlin(\"1.2\")\npublic actual fun Double.nextDown(): Double = when {\n    this.isNaN() || this == Double.NEGATIVE_INFINITY -> this\n    this == 0.0 -> -Double.MIN_VALUE\n    else -> Double.fromBits(this.toRawBits() + if (this > 0) -1 else 1)\n}\n\n/**\n * Returns the [Double] value nearest to this value in direction from this value towards the value [to].\n *\n * Special cases:\n *   - `x.nextTowards(y)` is `NaN` if either `x` or `y` are `NaN`\n *   - `x.nextTowards(x) == x`\n *\n */\n@SinceKotlin(\"1.2\")\npublic actual fun Double.nextTowards(to: Double): Double = when {\n    this.isNaN() || to.isNaN() -> Double.NaN\n    to == this -> to\n    to > this ->
 this.nextUp()\n    else /* to < this */ -> this.nextDown()\n}\n\n/**\n * Rounds this [Double] value to the nearest integer and converts the result to [Int].\n * Ties are rounded towards positive infinity.\n *\n * Special cases:\n *   - `x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`\n *   - `x.roundToInt() == Int.MIN_VALUE` when `x < Int.MIN_VALUE`\n *\n * @throws IllegalArgumentException when this value is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic actual fun Double.roundToInt(): Int = when {\n    isNaN() -> throw IllegalArgumentException(\"Cannot round NaN value.\")\n    this > Int.MAX_VALUE -> Int.MAX_VALUE\n    this < Int.MIN_VALUE -> Int.MIN_VALUE\n    else -> nativeMath.round(this).toInt()\n}\n\n/**\n * Rounds this [Double] value to the nearest integer and converts the result to [Long].\n * Ties are rounded towards positive infinity.\n *\n * Special cases:\n *   - `x.roundToLong() == Long.MAX_VALUE` when `x > Long.MAX_VALUE`\n *   - `x.roundToLong() == Long.MIN_VALUE`
 when `x < Long.MIN_VALUE`\n *\n * @throws IllegalArgumentException when this value is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic actual fun Double.roundToLong(): Long = when {\n    isNaN() -> throw IllegalArgumentException(\"Cannot round NaN value.\")\n    this > Long.MAX_VALUE -> Long.MAX_VALUE\n    this < Long.MIN_VALUE -> Long.MIN_VALUE\n    else -> nativeMath.round(this).toLong()\n}\n\n//
endregion\n\n\n\n// region ================ Float Math
========================================\n\n/** Computes the sine of the angle [x] given in radians.\n *\n *  Special cases:\n *   - `sin(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun sin(x: Float): Float = nativeMath.sin(x.toDouble()).toFloat()\n\n/** Computes the cosine of the angle [x] given in radians.\n *\n *  Special cases:\n *   - `cos(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun cos(x: Float): Float = nativeMath.cos(x.toDouble()).toFloat()\n\n/**
 Computes the tangent of the angle [x] given in radians.\n *\n *  Special cases:\n *   - `tan(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun tan(x: Float): Float = nativeMath.tan(x.toDouble()).toFloat()\n\n/**\n * Computes the arc sine of the value [x];\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\n *\n * Special cases:\n *   - `asin(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun asin(x: Float): Float = nativeMath.asin(x.toDouble()).toFloat()\n\n/**\n * Computes the arc cosine of the value [x];\n * the returned value is an angle in the range from `0.0` to `PI` radians.\n *\n * Special cases:\n *   - `acos(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun acos(x: Float): Float =
```

nativeMath.acos(x.toDouble()).toFloat()\n\n/**\n * Computes the arc tangent of the value [x];\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\n *\n * Special cases:\n *  - `atan(NaN)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun atan(x: Float): Float = nativeMath.atan(x.toDouble()).toFloat()\n\n/**\n * Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond\n * to the rectangular coordinates `(x, y)` by computing the arc tangent of the value [y] / [x];\n * the returned value is an angle in the range from `-PI` to `PI` radians.\n *\n * Special cases:\n *  - `atan2(0.0, 0.0)` is `0.0`\n *  - `atan2(0.0, x)` is `0.0` for `x > 0` and `PI` for `x < 0`\n *  - `atan2(-0.0, x)` is `-0.0` for 'x > 0` and `-PI` for `x < 0`\n *  - `atan2(y, +Inf)` is `0.0` for `0 < y < +Inf` and `-0.0` for '-Inf < y < 0`\n *  - `atan2(y, -Inf)` is `PI` for `0 < y < +Inf` and `-PI` for `-Inf < y < 0`\n *  - `atan2(y, 0.0)` is `PI/2` for `y > 0` and `-PI/2` for `y < 0`\n *  - `atan2(+Inf, x)` is `PI/2` for finite `x`y\n *  - `atan2(-Inf, x)` is `-PI/2` for finite `x`\n *  - `atan2(NaN, x)` and `atan2(y, NaN)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun atan2(y: Float, x: Float): Float = nativeMath.atan2(y.toDouble(), x.toDouble()).toFloat()\n\n/**\n * Computes the hyperbolic sine of the value [x].\n *\n * Special cases:\n *  - `sinh(NaN)` is `NaN`\n *  - `sinh(+Inf)` is `+Inf`\n *  - `sinh(-Inf)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun sinh(x: Float): Float = nativeMath.sinh(x.toDouble()).toFloat()\n\n/**\n * Computes the hyperbolic cosine of the value [x].\n *\n * Special cases:\n *  - `cosh(NaN)` is `NaN`\n *  - `cosh(+Inf|-Inf)` is `+Inf`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun cosh(x: Float): Float = nativeMath.cosh(x.toDouble()).toFloat()\n\n/**\n * Computes the hyperbolic tangent of the value [x].\n *\n * Special cases:\n *  - `tanh(NaN)` is `NaN`\n *  - `tanh(+Inf)` is `1.0`\n *  - `tanh(-Inf)` is `-1.0`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun tanh(x: Float): Float = nativeMath.tanh(x.toDouble()).toFloat()\n\n/**\n * Computes the inverse hyperbolic sine of the value [x].\n *\n * The returned value is `y` such that `sinh(y) == x`.\n *\n * Special cases:\n *  - `asinh(NaN)` is `NaN`\n *  - `asinh(+Inf)` is `+Inf`\n *  - `asinh(-Inf)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun asinh(x: Float): Float = nativeMath.asinh(x.toDouble()).toFloat()\n\n/**\n * Computes the inverse hyperbolic cosine of the value [x].\n *\n * The returned value is positive `y` such that `cosh(y) == x`.\n *\n * Special cases:\n *  - `acosh(NaN)` is `NaN`\n *  - `acosh(x)` is `NaN` when `x < 1`\n *  - `acosh(+Inf)` is `+Inf`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun acosh(x: Float): Float = nativeMath.acosh(x.toDouble()).toFloat()\n\n/**\n * Computes the inverse hyperbolic tangent of the value [x].\n *\n * The returned value is `y` such that `tanh(y) == x`.\n *\n * Special cases:\n *  - `tanh(NaN)` is `NaN`\n *  - `tanh(x)` is `NaN` when `x > 1` or `x < -1`\n *  - `tanh(1.0)` is `+Inf`\n *  - `tanh(-1.0)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun atanh(x: Float): Float = nativeMath.atanh(x.toDouble()).toFloat()\n\n/**\n * Computes `sqrt(x^2 + y^2)` without intermediate overflow or underflow.\n *\n * Special cases:\n *  - returns `+Inf` if any of arguments is infinite\n *  - returns `NaN` if any of arguments is `NaN` and the other is not infinite\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun hypot(x: Float, y: Float): Float = nativeMath.hypot(x.toDouble(), y.toDouble()).toFloat()\n\n/**\n * Computes the positive square root of the value [x].\n *\n * Special cases:\n *  - `sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun sqrt(x: Float): Float = nativeMath.sqrt(x.toDouble()).toFloat()\n\n/**\n * Computes Euler's number `e` raised to the power of the value [x].\n *\n * Special cases:\n *  - `exp(NaN)` is `NaN`\n *  - `exp(+Inf)` is `+Inf`\n *  - `exp(-Inf)` is `0.0`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun exp(x: Float): Float = nativeMath.exp(x.toDouble()).toFloat()\n\n/**\n * Computes `exp(x) - 1`.\n *\n * This function can be implemented to produce more precise result for [x] near zero.\n *\n * Special cases:\n *  - `expm1(NaN)` is `NaN`\n *  - `expm1(+Inf)` is `+Inf`\n *  - `expm1(-Inf)` is `-1.0`\n *\n * @see [exp] function.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun expm1(x: Float): Float = nativeMath.expm1(x.toDouble()).toFloat()\n\n/**\n * Computes the logarithm of the value [x] to the given [base].\n *\n * Special cases:\n *  - `log(x, b)` is `NaN` if either `x` or `b` are `NaN`\n *  - `log(x, b)` is `NaN` when `x < 0`

or `b <= 0` or `b == 1.0`\n *  - `log(+Inf, +Inf)` is `NaN`\n *
 - `log(+Inf, b)` is `+Inf` for `b > 1` and `-Inf` for `b < 1`\n *  - `log(0.0, b)` is `-Inf` for `b > 1` and `+Inf` for `b > 1`\n *\n * See also logarithm functions for common fixed bases: [ln], [log10] and [log2].\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun log(x: Float, base: Float): Float = log(x.toDouble(), base.toDouble()).toFloat()\n\n/**\n * Computes the natural logarithm (base `E`) of the value [x].\n *\n * Special cases:\n *  - `ln(NaN)` is `NaN`\n *  - `ln(x)` is `NaN` when `x < 0.0`\n *  - `ln(+Inf)` is `+Inf`\n *  - `ln(0.0)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun ln(x: Float): Float = nativeMath.log(x.toDouble()).toFloat()\n\n/**\n * Computes the common logarithm (base 10) of the value [x].\n *\n * @see [ln] function for special cases.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun log10(x: Float): Float = nativeMath.log10(x.toDouble()).toFloat()\n\n/**\n * Computes the binary logarithm
 (base 2) of the value [x].\n *\n * @see [ln] function for special cases.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun log2(x: Float): Float = nativeMath.log2(x.toDouble()).toFloat()\n\n/**\n * Computes `ln(a + 1)`.\n *\n * This function can be implemented to produce more precise result for [x] near zero.\n *\n * Special cases:\n *  - `ln1p(NaN)` is `NaN`\n *  - `ln1p(x)` is `NaN` where `x < -1.0`\n *  - `ln1p(-1.0)` is `-Inf`\n *  - `ln1p(+Inf)` is `+Inf`\n *\n * @see [ln] function\n * @see [expm1] function\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun ln1p(x: Float): Float = nativeMath.log1p(x.toDouble()).toFloat()\n\n/**\n * Rounds the given value [x] to an integer towards positive infinity.\n\n * @return the smallest Float value that is greater than or equal to the given value [x] and is a mathematical integer.\n *\n * Special cases:\n *  - `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic
 actual inline fun ceil(x: Float): Float = nativeMath.ceil(x.toDouble()).toFloat()\n\n/**\n * Rounds the given value [x] to an integer towards negative infinity.\n\n * @return the largest Float value that is smaller than or equal to the given value [x] and is a mathematical integer.\n *\n * Special cases:\n *  - `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun floor(x: Float): Float = nativeMath.floor(x.toDouble()).toFloat()\n\n/**\n * Rounds the given value [x] to an integer towards zero.\n *\n * @return the value [x] having its fractional part truncated.\n *\n * Special cases:\n *  - `truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun truncate(x: Float): Float = truncate(x.toDouble()).toFloat()\n\n/**\n * Rounds the given
 value [x] towards the closest integer with ties rounded towards even integer.\n *\n * Special cases:\n *  - `round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun round(x: Float): Float = round(x.toDouble()).toFloat()\n\n\n/**\n * Returns the absolute value of the given value [x].\n *\n * Special cases:\n *  - `abs(NaN)` is `NaN`\n *\n * @see absoluteValue extension property for [Float]\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun abs(x: Float): Float = nativeMath.abs(x.toDouble()).toFloat()\n\n/**\n * Returns the sign of the given value [x]:\n *  - `-1.0` if the value is negative,\n *  - zero if the value is zero,\n *  - `1.0` if the value is positive\n *\n * Special case:\n *  - `sign(NaN)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun sign(x: Float): Float = nativeMath.sign(x.toDouble()).toFloat()\n\n\n\n/**\n * Returns the
 smaller of two values.\n *\n * If either value is `NaN`, then the result is `NaN`.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun min(a: Float, b: Float): Float = nativeMath.min(a, b)\n\n/**\n * Returns the greater of two values.\n *\n * If either value is `NaN`, then the result is `NaN`.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun max(a: Float, b: Float): Float = nativeMath.max(a, b)\n\n// extensions\n\n\n/**\n * Raises this value to the power [x].\n *\n * Special cases:\n *  - `b.pow(0.0)` is `1.0`\n *  - `b.pow(1.0) == b`\n *  - `b.pow(NaN)` is `NaN`\n *  - `NaN.pow(x)` is `NaN` for `x != 0.0`\n *  - `b.pow(Inf)` is `NaN` for `abs(b) == 1.0`\n *  - `b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun Float.pow(x: Float): Float = nativeMath.pow(this.toDouble(), x.toDouble()).toFloat()\n\n/**\n * Raises this value to the integer power [n].\n *\n

* See the
other overload of [pow] for details.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun Float.pow(n: Int): Float = nativeMath.pow(this.toDouble(), n.toDouble()).toFloat()\n\n/**\n * Returns the absolute value of this value.\n *\n * Special cases:\n *  - `NaN.absoluteValue` is `NaN`\n *\n * @see abs function\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline val Float.absoluteValue: Float get() = nativeMath.abs(this.toDouble()).toFloat()\n\n/**\n * Returns the sign of this value:\n *  - `-1.0` if the value is negative,\n *  - zero if the value is zero,\n *  - `1.0` if the value is positive\n *\n * Special case:\n *  - `NaN.sign` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline val Float.sign: Float get() = nativeMath.sign(this.toDouble()).toFloat()\n\n/**\n * Returns this value with the sign bit same as of the [sign] value.\n *\n * If [sign] is `NaN` the sign of the result is undefined.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic
actual inline fun Float.withSign(sign: Float): Float = this.toDouble().withSign(sign.toDouble()).toFloat()\n\n/**\n * Returns this value with the sign bit same as of the [sign] value.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun Float.withSign(sign: Int): Float = this.toDouble().withSign(sign.toDouble()).toFloat()\n\n\n/**\n * Rounds this [Float] value to the nearest integer and converts the result to [Int].\n * Ties are rounded towards positive infinity.\n *\n * Special cases:\n *  - `x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`\n *  - `x.roundToInt() == Int.MIN_VALUE` when `x < Int.MIN_VALUE`\n *\n * @throws IllegalArgumentException when this value is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun Float.roundToInt(): Int = toDouble().roundToInt()\n\n/**\n * Rounds this [Float] value to the nearest integer and converts the result to [Long].\n * Ties are rounded towards positive infinity.\n *\n * Special cases:\n *
 - `x.roundToLong() == Long.MAX_VALUE` when `x > Long.MAX_VALUE`\n *  - `x.roundToLong() == Long.MIN_VALUE` when `x < Long.MIN_VALUE`\n *\n * @throws IllegalArgumentException when this value is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun Float.roundToLong(): Long = toDouble().roundToLong()\n\n\n// endregion\n\n// region ================ Integer Math ========================================\n\n\n/**\n * Returns the absolute value of the given value [n].\n *\n * Special cases:\n *  - `abs(Int.MIN_VALUE)` is `Int.MIN_VALUE` due to an overflow\n *\n * @see absoluteValue extension property for [Int]\n */\n// TODO: remove manual 'or' when KT-19290 is fixed\n@SinceKotlin(\"1.2\")\npublic actual fun abs(n: Int): Int = if (n < 0) (-n or 0) else n\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun min(a: Int, b: Int): Int = nativeMath.min(a, b)\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic
actual inline fun max(a: Int, b: Int): Int = nativeMath.max(a, b)\n\n/**\n * Returns the absolute value of this value.\n *\n * Special cases:\n *  - `Int.MIN_VALUE.absoluteValue` is `Int.MIN_VALUE` due to an overflow\n *\n * @see abs function\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline val Int.absoluteValue: Int get() = abs(this)\n\n/**\n * Returns the sign of this value:\n *  - `-1` if the value is negative,\n *  - `0` if the value is zero,\n *  - `1` if the value is positive\n */\n@SinceKotlin(\"1.2\")\npublic actual val Int.sign: Int get() = when {\n    this < 0 -> -1\n    this > 0 -> 1\n    else -> 0\n}\n\n\n\n/**\n * Returns the absolute value of the given value [n].\n *\n * Special cases:\n *  - `abs(Long.MIN_VALUE)` is `Long.MIN_VALUE` due to an overflow\n *\n * @see absoluteValue extension property for [Long]\n */\n@SinceKotlin(\"1.2\")\npublic actual fun abs(n: Long): Long = if (n < 0) -n else n\n\n/**\n * Returns the
smaller of two values.\n */\n@SinceKotlin(\"1.2\")\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline fun min(a: Long, b: Long): Long = if (a <= b) a else b\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.2\")\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline fun max(a: Long, b: Long): Long = if (a >= b) a else b\n\n/**\n * Returns the absolute value of this value.\n *\n * Special cases:\n *  - `Long.MIN_VALUE.absoluteValue` is `Long.MIN_VALUE` due to an overflow\n *\n * @see abs function\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline val Long.absoluteValue: Long get() = abs(this)\n\n/**\n * Returns the sign of this value:\n *  - `-1` if the value is negative,\n *  - `0` if the value is zero,\n *  - `1` if the value is positive\n */\n@SinceKotlin(\"1.2\")\npublic actual val Long.sign: Int get() = when {\n    this

< 0 -> -1\n    this > 0 -> 1\n    else -> 0\n}\n\n\n// endregion\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\n/**\n * Returns `true` if the specified number is a\n * Not-a-Number (NaN) value, `false` otherwise.\n */\npublic actual fun Double.isNaN(): Boolean = this != this\n\n/**\n * Returns `true` if the specified number is a\n * Not-a-Number (NaN) value, `false` otherwise.\n */\npublic actual fun Float.isNaN(): Boolean = this != this\n\n/**\n * Returns `true` if this value is infinitely large in magnitude.\n */\npublic actual fun Double.isInfinite(): Boolean = this == Double.POSITIVE_INFINITY || this == Double.NEGATIVE_INFINITY\n\n/**\n * Returns `true` if this value is infinitely large in magnitude.\n */\npublic actual fun Float.isInfinite(): Boolean = this == Float.POSITIVE_INFINITY || this == Float.NEGATIVE_INFINITY\n\n/**\n * Returns `true` if the argument is a finite floating-point value; returns `false` otherwise
(for `NaN` and infinity arguments).\n */\npublic actual fun Double.isFinite(): Boolean = !isInfinite() && !isNaN()\n\n/**\n * Returns `true` if the argument is a finite floating-point value; returns `false` otherwise (for `NaN` and infinity arguments).\n */\npublic actual fun Float.isFinite(): Boolean = !isInfinite() && !isNaN()\n\n\n/**\n * Counts the number of set bits in the binary representation of this [Int] number.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun Int.countOneBits(): Int {\n    // Hacker's Delight 5-1 algorithm\n    var v = this\n    v = (v and 0x55555555) + (v.ushr(1) and 0x55555555)\n    v = (v and 0x33333333) + (v.ushr(2) and 0x33333333)\n    v = (v and 0x0F0F0F0F) + (v.ushr(4) and 0x0F0F0F0F)\n    v = (v and 0x00FF00FF) + (v.ushr(8) and 0x00FF00FF)\n    v = (v and 0x0000FFFF) + (v.ushr(16))\n    return v\n}\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation
of this [Int] number.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic actual inline fun Int.countLeadingZeroBits(): Int = JsMath.clz32(this)\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Int] number.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun Int.countTrailingZeroBits(): Int =\n    // Hacker's Delight 5-4 algorithm for expressing countTrailingZeroBits with countLeadingZeroBits\n    Int.SIZE_BITS - (this or -this).inv().countLeadingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most significant set bit of this [Int] number,\n * or zero, if this number is zero.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun Int.takeHighestOneBit(): Int =\n    if (this == 0) 0 else 1.shl(Int.SIZE_BITS - 1 - countLeadingZeroBits())\n\n/**\n * Returns a number having a single bit set in the position of the least significant set bit of this [Int] number,\n * or zero, if this number is zero.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun Int.takeLowestOneBit(): Int =\n    // Hacker's Delight 2-1 algorithm for isolating rightmost 1-bit\n    this and -this\n\n/**\n * Rotates the binary representation of this [Int] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n *\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [Int.SIZE_BITS] (32) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 32)`\n */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic
actual fun Int.rotateLeft(bitCount: Int): Int =\n    shl(bitCount) or ushr(Int.SIZE_BITS - bitCount)\n\n\n/**\n * Rotates the binary representation of this [Int] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [Int.SIZE_BITS] (32) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 32)`\n

*/\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun Int.rotateRight(bitCount: Int): Int =\n    shl(Int.SIZE_BITS - bitCount) or ushr(bitCount)\n\n\n/**\n * Counts the number of set bits in the binary representation of this [Long] number.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun Long.countOneBits(): Int =\n    high.countOneBits() + low.countOneBits()\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Long] number.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun Long.countLeadingZeroBits(): Int =\n    when (val high = this.high) {\n        0 -> Int.SIZE_BITS + low.countLeadingZeroBits()\n        else -> high.countLeadingZeroBits()\n    }\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Long] number.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun Long.countTrailingZeroBits(): Int =\n    when (val low = this.low) {\n        0 -> Int.SIZE_BITS + high.countTrailingZeroBits()\n        else -> low.countTrailingZeroBits()\n    }\n\n/**\n * Returns a number having a single bit set in the position of the most significant set bit of this [Long] number,\n * or zero, if this number is zero.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun Long.takeHighestOneBit(): Long =\n    when (val high = this.high) {\n        0 -> Long(low.takeHighestOneBit(), 0)\n        else -> Long(0, high.takeHighestOneBit())\n    }\n\n/**\n * Returns a number having a single bit set in the position of the least significant set bit of this [Long] number,\n * or zero, if this number is zero.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun Long.takeLowestOneBit(): Long =\n    when (val low = this.low) {\n        0 -> Long(0, high.takeLowestOneBit())\n        else -> Long(low.takeLowestOneBit(), 0)\n    }\n\n/**\n * Rotates the binary representation of this [Long] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n *\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 64)`\n */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun Long.rotateLeft(bitCount: Int): Long {\n    if ((bitCount and 31) != 0) {\n        val low = this.low\n        val high = this.high\n        val newLow = low.shl(bitCount) or high.ushr(-bitCount)\n        val newHigh = high.shl(bitCount) or low.ushr(-bitCount)\n        return if ((bitCount and 32) == 0) Long(newLow, newHigh) else Long(newHigh, newLow)\n    } else {\n        return if ((bitCount and 32) == 0) this else Long(high, low)\n    }\n}\n\n/**\n * Rotates the binary representation of this [Long] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 64)`\n */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic actual inline fun Long.rotateRight(bitCount: Int): Long = rotateLeft(-bitCount)\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\nimport kotlin.internal.LowPriorityInOverloadResolution\n\n/**\n * Exposes the JavaScript [Promise object](https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global_Objects/Promise) to Kotlin.\n */\n@Suppress(\"NOT_DOCUMENTED\")\npublic open external class Promise<out T>(executor: (resolve: (T) -> Unit, reject: (Throwable) -> Unit) -> Unit) {\n    @LowPriorityInOverloadResolution\n    public open fun <S>

then(onFulfilled: ((T) -> S)?): Promise<S>\n\n    @LowPriorityInOverloadResolution\n    public open fun <S> then(onFulfilled: ((T) -> S)?, onRejected: ((Throwable) -> S)?): Promise<S>\n\n    public open fun <S> catch(onRejected: (Throwable) -> S): Promise<S>\n\n    companion object {\n        public fun <S> all(promise: Array<out Promise<S>>): Promise<Array<out S>>\n\n        public fun <S> race(promise: Array<out Promise<S>>): Promise<S>\n\n        public fun reject(e: Throwable): Promise<Nothing>\n\n        public fun <S> resolve(e: S): Promise<S>\n        public fun <S> resolve(e: Promise<S>): Promise<S>\n    }\n}\n\n// It's workaround for
KT-19672 since we can fix it properly until KT-11265 isn't fixed.\ninline fun <T, S> Promise<Promise<T>>.then(\n    noinline onFulfilled: ((T) -> S)?\n): Promise<S> {\n    return this.unsafeCast<Promise<T>>().then(onFulfilled)\n}\n\ninline fun <T, S> Promise<Promise<T>>.then(\n    noinline onFulfilled: ((T) -> S)?,\n    noinline onRejected: ((Throwable) -> S)?\n): Promise<S> {\n    return this.unsafeCast<Promise<T>>().then(onFulfilled, onRejected)\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.random\n\nimport kotlin.math.pow\n\ninternal actual fun defaultPlatformRandom(): Random =\n    Random(js(\"(Math.random() * Math.pow(2, 32)) | 0\").unsafeCast<Int>())\n\n\nprivate val INV_2_26: Double = 2.0.pow(-26)\nprivate val INV_2_53: Double = 2.0.pow(-53)\ninternal actual fun doubleFromParts(hi26: Int, low27: Int): Double =\n    hi26 * INV_2_26 + low27 * INV_2_53","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect\n\nimport findAssociatedObject\n\n/**\n * The experimental marker for associated objects API.\n *\n * Any usage of a declaration annotated with `@ExperimentalAssociatedObjects` must be accepted either by\n * annotating that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalAssociatedObjects::class)`,\n * or by using the compiler argument `-Xopt-in=kotlin.reflect.ExperimentalAssociatedObjects`.\n */\n@RequiresOptIn(level = RequiresOptIn.Level.ERROR)\n@Retention(value = AnnotationRetention.BINARY)\npublic annotation class ExperimentalAssociatedObjects\n\n/**\n * Makes the annotated annotation class an associated object key.\n *\n * An associated object key annotation should have single [KClass] parameter.\n * When applied to a class with reference to an object declaration as an argument, it binds\n * the object to the class, making this binding discoverable at runtime using [findAssociatedObject].\n */\n@ExperimentalAssociatedObjects\n@Retention(AnnotationRetention.BINARY)\n@Target(AnnotationTarget.ANNOTATION_CLASS)\npublic annotation class AssociatedObjectKey\n\n/**\n * If [T] is an @[AssociatedObjectKey]-annotated annotation class and [this] class is annotated with @[T] (`S::class`),\n * returns object `S`.\n *\n * Otherwise returns `null`.\n */\n@ExperimentalAssociatedObjects\npublic inline fun <reified T : Annotation> KClass<*>.findAssociatedObject(): Any? =\n    this.findAssociatedObject(T::class)","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\nimport getKClass\nimport kotlin.reflect.KClass\nimport kotlin.reflect.js.internal.KClassImpl\n\n/**\n * Represents the constructor of a class. Instances of `JsClass` can be passed to JavaScript APIs that expect a constructor reference.\n */\nexternal interface JsClass<T : Any> {\n    /**\n     * Returns the unqualified name of the class represented by this instance.\n     */\n    val name: String\n}\n\n/**\n * Obtains a constructor reference for the given `KClass`.\n */\nval <T : Any> KClass<T>.js: JsClass<T>\n    get() = (this as KClassImpl<T>).jClass\n\n/**\n * Obtains a `KClass` instance for the given constructor reference.\n */\nval <T : Any> JsClass<T>.kotlin: KClass<T>\n    get() = getKClass(this)\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect.js.internal\n\nimport kotlin.reflect.*\n\ninternal abstract class KClassImpl<T : Any>(\n    internal open val jClass: JsClass<T>\n) : KClass<T> {\n\n    override val qualifiedName: String?\n        get() = TODO()\n\n    override fun equals(other: Any?): Boolean {\n        return other is KClassImpl<*> && jClass

== other.jClass\n    }\n\n    // TODO: use FQN\n    override fun hashCode(): Int = simpleName?.hashCode() ?: 0\n\n    override fun toString(): String {\n        // TODO: use FQN\n        return \"class $simpleName\"\n    }\n}\n\ninternal class SimpleKClassImpl<T : Any>(jClass: JsClass<T>) : KClassImpl<T>(jClass) {\n    override val simpleName: String? = jClass.asDynamic().`$metadata$`?.simpleName.unsafeCast<String?>()\n\n    override fun isInstance(value: Any?): Boolean {\n        return jsIsType(value, jClass)\n    }\n}\n\ninternal class PrimitiveKClassImpl<T : Any>(\n    jClass: JsClass<T>,\n    private val givenSimpleName: String,\n    private val isInstanceFunction: (Any?) -> Boolean\n) : KClassImpl<T>(jClass) {\n    override fun equals(other: Any?): Boolean {\n        if (other !is PrimitiveKClassImpl<*>) return false\n        return super.equals(other) && givenSimpleName == other.givenSimpleName\n    }\n\n    override val simpleName: String? get() = givenSimpleName\n\n    override fun isInstance(value: Any?): Boolean {\n        return isInstanceFunction(value)\n    }\n}\n\ninternal object NothingKClassImpl : KClassImpl<Nothing>(js(\"Object\")) {\n    override val simpleName: String = \"Nothing\"\n\n    override fun isInstance(value: Any?): Boolean = false\n\n    override val jClass: JsClass<Nothing>\n        get() = throw UnsupportedOperationException(\"There's no native JS class for Nothing type\")\n\n    override fun equals(other: Any?): Boolean = other === this\n\n    override fun hashCode(): Int = 0\n}\n\ninternal class ErrorKClass : KClass<Nothing> {\n    override val simpleName: String? get() = error(\"Unknown simpleName for ErrorKClass\")\n    override val qualifiedName: String? get() = error(\"Unknown qualifiedName for ErrorKClass\")\n\n    override fun isInstance(value: Any?): Boolean = error(\"Can's check isInstance on ErrorKClass\")\n\n    override fun equals(other: Any?): Boolean = other === this\n\n    override fun hashCode(): Int = 0\n}","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect\n\ninternal actual inline val KClass<*>.qualifiedOrSimpleName: String?\n    get() = simpleName","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// a package is omitted to get declarations directly under the module\n\n// TODO: Remove once JsReflectionAPICallChecker supports more reflection types\n@file:Suppress(\"Unsupported\")\n\nimport kotlin.reflect.*\nimport kotlin.reflect.js.internal.*\n\n@JsName(\"createKType\")\ninternal fun createKType(\n    classifier: KClassifier,\n    arguments: Array<KTypeProjection>,\n    isMarkedNullable: Boolean\n) =\n    KTypeImpl(classifier, arguments.asList(), isMarkedNullable)\n\n@JsName(\"createDynamicKType\")\ninternal fun createDynamicKType(): KType = DynamicKType\n\n@JsName(\"markKTypeNullable\")\ninternal fun markKTypeNullable(kType: KType) = KTypeImpl(kType.classifier!!, kType.arguments, true)\n\n@JsName(\"createKTypeParameter\")\ninternal fun createKTypeParameter(\n    name: String,\n    upperBounds: Array<KType>,\n    variance: String\n): KTypeParameter {\n    val kVariance = when (variance) {\n        \"in\" -> KVariance.IN\n        \"out\" -> KVariance.OUT\n        else -> KVariance.INVARIANT\n    }\n\n    return KTypeParameterImpl(name, upperBounds.asList(), kVariance, false)\n}\n\n@JsName(\"getStarKTypeProjection\")\ninternal fun getStarKTypeProjection(): KTypeProjection =\n    KTypeProjection.STAR\n\n@JsName(\"createCovariantKTypeProjection\")\ninternal fun createCovariantKTypeProjection(type: KType): KTypeProjection =\n    KTypeProjection.covariant(type)\n\n@JsName(\"createInvariantKTypeProjection\")\ninternal fun createInvariantKTypeProjection(type: KType): KTypeProjection =\n    KTypeProjection.invariant(type)\n\n@JsName(\"createContravariantKTypeProjection\")\ninternal fun createContravariantKTypeProjection(type: KType): KTypeProjection =\n    KTypeProjection.contravariant(type)\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect.js.internal\n\nimport kotlin.reflect.*\n\ninternal class KTypeImpl(\n    override val classifier: KClassifier,\n    override val arguments: List<KTypeProjection>,\n    override val isMarkedNullable: Boolean\n) : KType {\n    override fun equals(other: Any?):

```
 Boolean =\n        other is KTypeImpl &&\n                classifier == other.classifier && arguments == other.arguments && isMarkedNullable == other.isMarkedNullable\n\n    override fun hashCode(): Int =\n (classifier.hashCode() * 31 + arguments.hashCode()) * 31 + isMarkedNullable.hashCode()\n\n    override fun toString(): String {\n        val kClass = (classifier as? KClass<*>)\n        val classifierName = when {\n            kClass == null -> classifier.toString()\n            kClass.simpleName != null -> kClass.simpleName\n            else -> \"(non-denotable type)\"\n        }\n\n        val args =\n            if (arguments.isEmpty()) \"\"\n            else arguments.joinToString(\", \", \"<\", \">\") { it.asString() }\n        val nullable = if (isMarkedNullable) \"?\" else \"\"\n\n        return classifierName + args + nullable\n    }\n\n    // TODO: this should be the implementation of KTypeProjection.toString, see KT-30071\n    private fun KTypeProjection.asString():
 String {\n        if (variance == null) return \"*\"\n        return variance.prefixString() + type.toString()\n }\n}\n\ninternal object DynamicKType : KType {\n    override val classifier: KClassifier? = null\n    override val arguments: List<KTypeProjection> = emptyList()\n    override val isMarkedNullable: Boolean = false\n    override fun toString(): String = \"dynamic\"\n}\n\ninternal fun KVariance.prefixString() =\n    when (this) {\n KVariance.INVARIANT -> \"\"\n        KVariance.IN -> \"in \"\n        KVariance.OUT -> \"out \"\n    }\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect.js.internal\n\nimport kotlin.reflect.*\n\ninternal data class KTypeParameterImpl(\n    override val name: String,\n    override val upperBounds: List<KType>,\n    override val variance: KVariance,\n
    override val isReified: Boolean\n) : KTypeParameter {\n    override fun toString(): String = name\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect.js.internal\n\nimport kotlin.js.JsClass\n\n@JsName(\"PrimitiveClasses\")\ninternal object PrimitiveClasses {\n    @JsName(\"anyClass\")\n    val anyClass = PrimitiveKClassImpl(js(\"Object\").unsafeCast<JsClass<Any>>(), \"Any\", { it is Any })\n\n    @JsName(\"numberClass\")\n    val numberClass = PrimitiveKClassImpl(js(\"Number\").unsafeCast<JsClass<Number>>(), \"Number\", { it is Number })\n\n    @JsName(\"nothingClass\")\n    val nothingClass = NothingKClassImpl\n\n    @JsName(\"booleanClass\")\n    val booleanClass = PrimitiveKClassImpl(js(\"Boolean\").unsafeCast<JsClass<Boolean>>(), \"Boolean\", { it is Boolean })\n\n    @JsName(\"byteClass\")\n
    val byteClass = PrimitiveKClassImpl(js(\"Number\").unsafeCast<JsClass<Byte>>(), \"Byte\", { it is Byte })\n\n    @JsName(\"shortClass\")\n    val shortClass = PrimitiveKClassImpl(js(\"Number\").unsafeCast<JsClass<Short>>(), \"Short\", { it is Short })\n\n    @JsName(\"intClass\")\n    val intClass = PrimitiveKClassImpl(js(\"Number\").unsafeCast<JsClass<Int>>(), \"Int\", { it is Int })\n\n    @JsName(\"floatClass\")\n    val floatClass = PrimitiveKClassImpl(js(\"Number\").unsafeCast<JsClass<Float>>(), \"Float\", { it is Float })\n\n    @JsName(\"doubleClass\")\n    val doubleClass = PrimitiveKClassImpl(js(\"Number\").unsafeCast<JsClass<Double>>(), \"Double\", { it is Double })\n\n    @JsName(\"arrayClass\")\n    val arrayClass = PrimitiveKClassImpl(js(\"Array\").unsafeCast<JsClass<Array<*>>>(), \"Array\", { it is Array<*> })\n\n    @JsName(\"stringClass\")\n    val stringClass = PrimitiveKClassImpl(js(\"String\").unsafeCast<JsClass<String>>(), \"String\", { it is String })\n\n
  @JsName(\"throwableClass\")\n    val throwableClass = PrimitiveKClassImpl(js(\"Error\").unsafeCast<JsClass<Throwable>>(), \"Throwable\", { it is Throwable })\n\n    @JsName(\"booleanArrayClass\")\n    val booleanArrayClass = PrimitiveKClassImpl(js(\"Array\").unsafeCast<JsClass<BooleanArray>>(), \"BooleanArray\", { it is BooleanArray })\n\n    @JsName(\"charArrayClass\")\n    val charArrayClass = PrimitiveKClassImpl(js(\"Uint16Array\").unsafeCast<JsClass<CharArray>>(), \"CharArray\", { it is CharArray })\n\n    @JsName(\"byteArrayClass\")\n    val byteArrayClass = PrimitiveKClassImpl(js(\"Int8Array\").unsafeCast<JsClass<ByteArray>>(), \"ByteArray\", { it is ByteArray })\n\n
```

@JsName(\"shortArrayClass\")\n    val shortArrayClass = PrimitiveKClassImpl(js(\"Int16Array\").unsafeCast<JsClass<ShortArray>>(), \"ShortArray\", { it is ShortArray })\n\n    @JsName(\"intArrayClass\")\n    val intArrayClass = PrimitiveKClassImpl(js(\"Int32Array\").unsafeCast<JsClass<IntArray>>(), \"IntArray\", { it is IntArray })\n\n    @JsName(\"longArrayClass\")\n    val longArrayClass = PrimitiveKClassImpl(js(\"Array\").unsafeCast<JsClass<LongArray>>(), \"LongArray\", { it is LongArray })\n\n    @JsName(\"floatArrayClass\")\n    val floatArrayClass = PrimitiveKClassImpl(js(\"Float32Array\").unsafeCast<JsClass<FloatArray>>(), \"FloatArray\", { it is FloatArray })\n\n    @JsName(\"doubleArrayClass\")\n    val doubleArrayClass = PrimitiveKClassImpl(js(\"Float64Array\").unsafeCast<JsClass<DoubleArray>>(), \"DoubleArray\", { it is DoubleArray })\n\n    @JsName(\"functionClass\")\n    fun functionClass(arity: Int): KClassImpl<Any> {\n        return functionClasses.get(arity) ?: run {\n            val result = PrimitiveKClassImpl(js(\"Function\").unsafeCast<JsClass<Any>>(), \"Function$arity\",\n                { jsTypeOf(it) === \"function\" && it.asDynamic().length === arity })\n            functionClasses.asDynamic()[arity] = result\n            result\n        }\n    }\n}\n\nprivate val functionClasses = arrayOfNulls<KClassImpl<Any>>(0)","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// a package is omitted to get declarations directly under the module\n\nimport kotlin.reflect.*\nimport kotlin.reflect.js.internal.*\n\n@JsName(\"getKClass\")\ninternal fun <T : Any> getKClass(jClass: Any /* JsClass<T> | Array<JsClass<T>> */): KClass<T> {\n    return if (js(\"Array\").isArray(jClass)) {\n        getKClassM(jClass.unsafeCast<Array<JsClass<T>>>())\n    } else {\n        getKClass1(jClass.unsafeCast<JsClass<T>>())\n    }\n}\n\n@JsName(\"getKClassM\")\ninternal fun <T : Any> getKClassM(jClasses: Array<JsClass<T>>): KClass<T> = when (jClasses.size) {\n    1 -> getKClass1(jClasses[0])\n    0 -> NothingKClassImpl.unsafeCast<KClass<T>>()\n    else -> ErrorKClass().unsafeCast<KClass<T>>()\n}\n\n@JsName(\"getKClassFromExpression\")\ninternal fun <T : Any> getKClassFromExpression(e: T): KClass<T> =\n    when (jsTypeOf(e)) {\n        \"string\" -> PrimitiveClasses.stringClass\n        \"number\" -> if (jsBitwiseOr(e, 0).asDynamic() === e) PrimitiveClasses.intClass else PrimitiveClasses.doubleClass\n        \"boolean\" -> PrimitiveClasses.booleanClass\n        \"function\" -> PrimitiveClasses.functionClass(e.asDynamic().length)\n        else -> {\n            when {\n                e is BooleanArray -> PrimitiveClasses.booleanArrayClass\n                e is CharArray -> PrimitiveClasses.charArrayClass\n                e is ByteArray -> PrimitiveClasses.byteArrayClass\n                e is ShortArray -> PrimitiveClasses.shortArrayClass\n                e is IntArray -> PrimitiveClasses.intArrayClass\n                e is LongArray -> PrimitiveClasses.longArrayClass\n                e is FloatArray -> PrimitiveClasses.floatArrayClass\n                e is DoubleArray -> PrimitiveClasses.doubleArrayClass\n                e is KClass<*> -> KClass::class\n                e is Array<*> -> PrimitiveClasses.arrayClass\n                else -> {\n                    val constructor = js(\"Object\").getPrototypeOf(e).constructor\n                    when {\n                        constructor === js(\"Object\") -> PrimitiveClasses.anyClass\n                        constructor === js(\"Error\") -> PrimitiveClasses.throwableClass\n                        else -> {\n                            val jsClass: JsClass<T> = constructor\n                            getKClass1(jsClass)\n                        }\n                    }\n                }\n            }\n        }\n    }.unsafeCast<KClass<T>>()\n\n@JsName(\"getKClass1\")\ninternal fun <T : Any> getKClass1(jClass: JsClass<T>): KClass<T> {\n    if (jClass === js(\"String\")) return PrimitiveClasses.stringClass.unsafeCast<KClass<T>>()\n\n    val metadata = jClass.asDynamic().`$metadata$`\n\n    return if (metadata != null) {\n        if (metadata.`$kClass$` == null) {\n            val kClass = SimpleKClassImpl(jClass)\n            metadata.`$kClass$` = kClass\n            kClass\n        } else {\n            metadata.`$kClass$`\n        }\n    } else {\n        SimpleKClassImpl(jClass)\n    }\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the

license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n/**\n * Exposes the JavaScript [RegExp object](https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global_Objects/RegExp) to Kotlin.\n */\n@Suppress(\"NOT_DOCUMENTED\")\npublic external class RegExp(pattern: String, flags: String? = definedExternally) {\n\n    public fun test(str: String): Boolean\n\n    public fun exec(str: String): RegExpMatch?\n\n    public override fun toString(): String\n\n    /**\n     * The lastIndex is a read/write integer property of regular expressions that specifies the index at which to start the next match.\n     */\n    public var lastIndex: Int\n\n    public val global: Boolean\n    public val ignoreCase: Boolean\n    public val multiline: Boolean\n}\n\n/**\n * Resets the regular expression so that subsequent [RegExp.test] and [RegExp.exec] calls will match starting with the beginning of the input string.\n */\npublic fun RegExp.reset() {\n    lastIndex = 0\n}\n\n// TODO: Inherit from array or introduce asArray() extension\n/**\n * Represents the return value of [RegExp.exec].\n */\n@Suppress(\"NOT_DOCUMENTED\")\npublic external interface RegExpMatch {\n    public val index: Int\n    public val input: String\n    public val length: Int\n}\n\n/**\n * Returns the entire text matched by [RegExp.exec] if the [index] parameter is 0, or the text matched by the capturing parenthesis\n * at the given index.\n */\npublic inline operator fun RegExpMatch.get(index: Int): String? = asDynamic()[index]\n\n/**\n * Converts the result of [RegExp.exec] to an array where the first element contains the entire matched text and each subsequent\n * element is the text matched by each capturing parenthesis.\n */\npublic inline fun RegExpMatch.asArray(): Array<out String?> = unsafeCast<Array<out String?>>()\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.sequences\n\ninternal actual class ConstrainedOnceSequence<T> actual constructor(sequence: Sequence<T>) : Sequence<T> {\n    private var sequenceRef: Sequence<T>? = sequence\n\n    actual override fun iterator(): Iterator<T> {\n        val sequence = sequenceRef ?: throw IllegalStateException(\"This sequence can be consumed only once.\")\n        sequenceRef = null\n        return sequence.iterator()\n    }\n}\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n@SinceKotlin(\"1.5\")\npublic actual enum class CharCategory(internal val value: Int, public actual val code: String) {\n    /**\n     * General category \"Cn\" in the Unicode specification.\n     */\n    UNASSIGNED(0, \"Cn\"),\n\n    /**\n     * General category \"Lu\" in the Unicode specification.\n     */\n    UPPERCASE_LETTER(1, \"Lu\"),\n\n    /**\n     * General category \"Ll\" in the Unicode specification.\n     */\n    LOWERCASE_LETTER(2, \"Ll\"),\n\n    /**\n     * General category \"Lt\" in the Unicode specification.\n     */\n    TITLECASE_LETTER(3, \"Lt\"),\n\n    /**\n     * General category \"Lm\" in the Unicode specification.\n     */\n    MODIFIER_LETTER(4, \"Lm\"),\n\n    /**\n     * General category \"Lo\" in the Unicode specification.\n     */\n    OTHER_LETTER(5, \"Lo\"),\n\n    /**\n     * General category \"Mn\" in the Unicode specification.\n     */\n    NON_SPACING_MARK(6, \"Mn\"),\n\n    /**\n     * General category \"Me\" in the Unicode specification.\n     */\n    ENCLOSING_MARK(7, \"Me\"),\n\n    /**\n     * General category \"Mc\" in the Unicode specification.\n     */\n    COMBINING_SPACING_MARK(8, \"Mc\"),\n\n    /**\n     * General category \"Nd\" in the Unicode specification.\n     */\n    DECIMAL_DIGIT_NUMBER(9, \"Nd\"),\n\n    /**\n     * General category \"Nl\" in the Unicode specification.\n     */\n    LETTER_NUMBER(10, \"Nl\"),\n\n    /**\n     * General category \"No\" in the Unicode specification.\n     */\n    OTHER_NUMBER(11, \"No\"),\n\n    /**\n     * General category \"Zs\" in the Unicode specification.\n     */\n    SPACE_SEPARATOR(12, \"Zs\"),\n\n    /**\n     * General category \"Zl\" in the Unicode specification.\n     */\n    LINE_SEPARATOR(13, \"Zl\"),\n\n    /**\n     * General category \"Zp\" in the Unicode specification.\n     */\n    PARAGRAPH_SEPARATOR(14, \"Zp\"),\n\n    /**\n     * General category \"Cc\" in the Unicode specification.\n     */\n    CONTROL(15, \"Cc\"),\n\n    /**\n     * General category \"Cf\" in the Unicode specification.\n     */\n    FORMAT(16, \"Cf\"),\n\n    /**\n     * General category \"Co\" in the Unicode specification.\n     */\n    PRIVATE_USE(18, \"Co\"),\n\n    /**\n     * General category \"Cs\" in the Unicode specification.\n     */\n    SURROGATE(19, \"Cs\"),\n\n    /**\n     *

```
General category \"Pd\" in the Unicode specification.\n     */\n    DASH_PUNCTUATION(20, \"Pd\"),\n\n    /**\n
* General category \"Ps\" in the Unicode specification.\n     */\n    START_PUNCTUATION(21, \"Ps\"),\n\n    /**\n
   * General category \"Pe\" in the Unicode specification.\n     */\n    END_PUNCTUATION(22, \"Pe\"),\n\n    /**\n
  * General category \"Pc\" in the Unicode specification.\n     */\n    CONNECTOR_PUNCTUATION(23,
\"Pc\"),\n\n    /**\n     * General category \"Po\" in the Unicode specification.\n
     */\n    OTHER_PUNCTUATION(24, \"Po\"),\n\n    /**\n     * General category \"Sm\" in the Unicode
specification.\n     */\n    MATH_SYMBOL(25, \"Sm\"),\n\n    /**\n     * General category \"Sc\" in the Unicode
specification.\n     */\n    CURRENCY_SYMBOL(26, \"Sc\"),\n\n    /**\n     * General category \"Sk\" in the
Unicode specification.\n     */\n    MODIFIER_SYMBOL(27, \"Sk\"),\n\n    /**\n     * General category \"So\" in the
Unicode specification.\n     */\n    OTHER_SYMBOL(28, \"So\"),\n\n    /**\n     * General category \"Pi\" in the
Unicode specification.\n     */\n    INITIAL_QUOTE_PUNCTUATION(29, \"Pi\"),\n\n    /**\n     * General
category \"Pf\" in the Unicode specification.\n     */\n    FINAL_QUOTE_PUNCTUATION(30, \"Pf\");\n\n    /**\n
* Returns `true` if [char] character belongs to this category.\n     */\n    public actual operator fun contains(char:
Char): Boolean = char.getCategoryValue() == this.value\n\n    companion object {\n        internal fun
 valueOf(category: Int): CharCategory =\n            when (category) {\n                in 0..16 -> values()[category]\n
    in 18..30 -> values()[category - 1]\n                else -> throw IllegalArgumentException(\"Category #$category is
not defined.\")\n            }\n    }\n}\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/**\n *  The exception thrown when a character encoding
or decoding error occurs.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic
actual open class CharacterCodingException(message: String?) : Exception(message) {\n    actual constructor() :
this(null)\n}\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be
 found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/**\n * A mutable sequence of characters.\n
*\n * String builder can be used to efficiently perform multiple string manipulation operations.\n */\npublic actual
class StringBuilder actual constructor(content: String) : Appendable, CharSequence {\n    /**\n     * Constructs an
empty string builder with the specified initial [capacity].\n     *\n     * In Kotlin/JS implementation of StringBuilder
the initial capacity has no effect on the further performance of operations.\n     */\n    actual constructor(capacity:
Int) : this() {\n    }\n\n    /** Constructs a string builder that contains the same characters as the specified [content]
char sequence. */\n    actual constructor(content: CharSequence) : this(content.toString()) {}\n\n    /** Constructs an
empty string builder. */\n    actual constructor() : this(\"\")\n\n    private var string: String = if (content !==
undefined) content else \"\"\n\n    actual override
 val length: Int\n        get() = string.asDynamic().length\n\n    actual override fun get(index: Int): Char =\n
string.getOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, length: $length}\") }\n\n    actual
override fun subSequence(startIndex: Int, endIndex: Int): CharSequence = string.substring(startIndex, endIndex)\n\n
  actual override fun append(value: Char): StringBuilder {\n        string += value\n        return this\n    }\n\n    actual
override fun append(value: CharSequence?): StringBuilder {\n        string += value.toString()\n        return this\n
}\n\n    actual override fun append(value: CharSequence?, startIndex: Int, endIndex: Int): StringBuilder =\n
this.appendRange(value ?: \"null\", startIndex, endIndex)\n\n    /**\n     * Reverses the contents of this string builder
and returns this instance.\n     *\n     * Surrogate pairs included in this string builder are treated as single
characters.\n     * Therefore, the order of the high-low
 surrogates is never reversed.\n     *\n     * Note that the reverse operation may produce new surrogate pairs that were
unpaired low-surrogates and high-surrogates before the operation.\n     * For example, reversing
`\"\\uDC00\\uD800\"` produces `\"\\uD800\\uDC00\"` which is a valid surrogate pair.\n     */\n    actual fun
reverse(): StringBuilder {\n        var reversed = \"\"\n        var index = string.length - 1\n        while (index >= 0) {\n
        val low = string[index--]\n            if (low.isLowSurrogate() && index >= 0) {\n                val high =
string[index--]\n                if (high.isHighSurrogate()) {\n                    reversed = reversed + high + low\n                }
else {\n                    reversed = reversed + low + high\n                }\n            } else {\n                reversed += low\n
```

```
    }\n        }\n        string = reversed\n        return this\n    }\n\n    /**\n     * Appends the string representation of the specified object
     [value] to this string builder and returns this instance.\n     *\n     * The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n     * and then that string was appended to this string builder.\n     */\n    actual fun append(value: Any?): StringBuilder {\n        string += value.toString()\n        return this\n    }\n\n    /**\n     * Appends the string representation of the specified boolean [value] to this string builder and returns this instance.\n     *\n     * The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n     * and then that string was appended to this string builder.\n     */\n    @SinceKotlin(\"1.3\")\n    actual fun append(value: Boolean): StringBuilder {\n        string += value\n        return this\n    }\n\n    /**\n     * Appends characters in the specified character array [value] to this string builder and returns this instance.\n     *\n     * Characters
     are appended in order, starting at the index 0.\n     */\n    @SinceKotlin(\"1.4\")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    actual fun append(value: CharArray): StringBuilder {\n        string += value.concatToString()\n        return this\n    }\n\n    @Deprecated(\"Provided for binary compatibility.\", level = DeprecationLevel.HIDDEN)\n    fun append(value: String): StringBuilder = append(value)\n\n    /**\n     * Appends the specified string [value] to this string builder and returns this instance.\n     *\n     * If [value] is `null`, then the four characters `\"null\"` are appended.\n     */\n    @SinceKotlin(\"1.3\")\n    actual fun append(value: String?): StringBuilder {\n        this.string += value ?: \"null\"\n        return this\n    }\n\n    /**\n     * Returns the current capacity of this string builder.\n     *\n     * The capacity is the maximum length this string builder can have before an allocation occurs.\n     *\n     * In Kotlin/JS implementation
     of StringBuilder the value returned from this method may not indicate the actual size of the backing storage.\n     */\n    @SinceKotlin(\"1.3\")\n//    @ExperimentalStdlibApi\n    @Deprecated(\"Obtaining StringBuilder capacity is not supported in JS and common code.\", level = DeprecationLevel.ERROR)\n    actual fun capacity(): Int = length\n\n    /**\n     * Ensures that the capacity of this string builder is at least equal to the specified [minimumCapacity].\n     *\n     * If the current capacity is less than the [minimumCapacity], a new backing storage is allocated with greater capacity.\n     * Otherwise, this method takes no action and simply returns.\n     *\n     * In Kotlin/JS implementation of StringBuilder the size of the backing storage is not extended to comply the given [minimumCapacity],\n     * thus calling this method has no effect on the further performance of operations.\n     */\n    @SinceKotlin(\"1.4\")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    actual fun ensureCapacity(minimumCapacity: Int) {\n    }\n\n    /**\n     * Returns the index within this string builder of the first occurrence of the specified [string].\n     *\n     * Returns `-1` if the specified [string] does not occur in this string builder.\n     */\n    @SinceKotlin(\"1.4\")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    actual fun indexOf(string: String): Int = this.string.asDynamic().indexOf(string)\n\n    /**\n     * Returns the index within this string builder of the first occurrence of the specified [string],\n     * starting at the specified [startIndex].\n     *\n     * Returns `-1` if the specified [string] does not occur in this string builder starting at the specified [startIndex].\n     */\n    @SinceKotlin(\"1.4\")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    actual fun indexOf(string: String, startIndex: Int): Int = this.string.asDynamic().indexOf(string, startIndex)\n\n    /**\n     * Returns the index within this string
     builder of the last occurrence of the specified [string].\n     * The last occurrence of empty string `\"\"` is considered to be at the index equal to `this.length`.\n     *\n     * Returns `-1` if the specified [string] does not occur in this string builder.\n     */\n    @SinceKotlin(\"1.4\")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    actual fun lastIndexOf(string: String): Int = this.string.asDynamic().lastIndexOf(string)\n\n    /**\n     * Returns the index within this string builder of the last occurrence of the specified [string],\n     * starting from the specified [startIndex] toward the beginning.\n     *\n     * Returns `-1` if the specified [string] does not occur in this string builder starting at the specified [startIndex].\n     */\n    @SinceKotlin(\"1.4\")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    actual fun lastIndexOf(string: String, startIndex: Int): Int {\n        if (string.isEmpty() && startIndex < 0) return -1\n        return this.string.asDynamic().lastIndexOf(string,
```

```
 startIndex)\n    }\n\n    /**\n     * Inserts the string representation of the specified boolean [value] into this string builder at the specified [index] and returns this instance.\n     *\n     * The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n     * and then that string was inserted into this string builder at the specified [index].\n     *\n     * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n     */\n    @SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n    actual fun insert(index: Int, value: Boolean): StringBuilder {\n        AbstractList.checkPositionIndex(index, length)\n\n        string = string.substring(0, index) + value + string.substring(index)\n        return this\n    }\n\n    /**\n     * Inserts the specified character [value] into this string builder at the specified [index] and
 returns this instance.\n     *\n     * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n     */\n    @SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n    actual fun insert(index: Int, value: Char): StringBuilder {\n        AbstractList.checkPositionIndex(index, length)\n\n        string = string.substring(0, index) + value + string.substring(index)\n        return this\n    }\n\n    /**\n     * Inserts characters in the specified character array [value] into this string builder at the specified [index] and returns this instance.\n     *\n     * The inserted characters go in same order as in the [value] character array, starting at [index].\n     *\n     * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n     */\n    @SinceKotlin(\"1.4\")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    actual fun insert(index: Int, value: CharArray): StringBuilder {\n        AbstractList.checkPositionIndex(index, length)\n\n        string = string.substring(0, index) + value.concatToString() + string.substring(index)\n        return this\n    }\n\n    /**\n     * Inserts characters in the specified character sequence [value] into this string builder at the specified [index] and returns this instance.\n     *\n     * The inserted characters go in the same order as in the [value] character sequence, starting at [index].\n     *\n     * @param index the position in this string builder to insert at.\n     * @param value the character sequence from which characters are inserted. If [value] is `null`, then the four characters `\"null\"` are inserted.\n     *\n     * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n     */\n    @SinceKotlin(\"1.4\")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    actual fun insert(index: Int, value: CharSequence?): StringBuilder
 {\n        AbstractList.checkPositionIndex(index, length)\n\n        string = string.substring(0, index) + value.toString() + string.substring(index)\n        return this\n    }\n\n    /**\n     * Inserts the string representation of the specified object [value] into this string builder at the specified [index] and returns this instance.\n     *\n     * The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n     * and then that string was inserted into this string builder at the specified [index].\n     *\n     * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n     */\n    @SinceKotlin(\"1.4\")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    actual fun insert(index: Int, value: Any?): StringBuilder {\n        AbstractList.checkPositionIndex(index, length)\n\n        string = string.substring(0, index) + value.toString() + string.substring(index)\n
        return this\n    }\n\n    @Deprecated(\"Provided for binary compatibility.\", level = DeprecationLevel.HIDDEN)\n    fun insert(index: Int, value: String): StringBuilder = insert(index, value)\n\n    /**\n     * Inserts the string [value] into this string builder at the specified [index] and returns this instance.\n     *\n     * If [value] is `null`, then the four characters `\"null\"` are inserted.\n     *\n     * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n     */\n    @SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n    actual fun insert(index: Int, value: String?): StringBuilder {\n        AbstractList.checkPositionIndex(index, length)\n\n        val toInsert = value ?: \"null\"\n        this.string = this.string.substring(0, index) + toInsert + this.string.substring(index)\n        return this\n    }\n\n    /**\n     *  Sets the length of this string builder to the specified [newLength].\n
     *\n     *  If the [newLength] is less than the current length, it is changed to the specified [newLength].\n     *  Otherwise, null characters '\\u0000' are appended to this string builder until its length is less than the [newLength].\n
     *\n     *  Note that in Kotlin/JS [set] operator function has non-constant execution time complexity.\n     *
```

```
Therefore, increasing length of this string builder and then updating each character by index may slow down your program.\n     *\n     *  @throws IndexOutOfBoundsException or [IllegalArgumentException] if [newLength] is less than zero.\n     */\n     @SinceKotlin(\"1.4\")\n     @WasExperimental(ExperimentalStdlibApi::class)\n     actual fun setLength(newLength: Int) {\n         if (newLength < 0) {\n             throw IllegalArgumentException(\"Negative new length: $newLength.\")\n         }\n\n         if (newLength <= length) {\n             string = string.substring(0, newLength)\n         } else {\n             for (i in length until newLength) {\n                 string += '\\u0000'\n             }\n         }\n     }\n\n     /**\n     * Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the [length] (exclusive).\n     *\n     * @throws IndexOutOfBoundsException if [startIndex] is less than zero or greater than the length of this string builder.\n     */\n     @SinceKotlin(\"1.4\")\n     @WasExperimental(ExperimentalStdlibApi::class)\n     actual fun substring(startIndex: Int): String {\n         AbstractList.checkPositionIndex(startIndex, length)\n\n         return string.substring(startIndex)\n     }\n\n     /**\n     * Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the [endIndex] (exclusive).\n     *\n     * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n     */\n     @SinceKotlin(\"1.4\")\n     @WasExperimental(ExperimentalStdlibApi::class)\n     actual fun substring(startIndex: Int, endIndex: Int): String {\n         AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n\n         return string.substring(startIndex, endIndex)\n     }\n\n     /**\n     * Attempts to reduce storage used for this string builder.\n     *\n     * If the backing storage of this string builder is larger than necessary to hold its current contents,\n     * then it may be resized to become more space efficient.\n     * Calling this method may, but is not required to, affect the value of the [capacity] property.\n     *\n     * In Kotlin/JS implementation of StringBuilder the size of the backing storage is always equal to the length of the string builder.\n     */\n     @SinceKotlin(\"1.4\")\n     @WasExperimental(ExperimentalStdlibApi::class)\n     actual fun trimToSize() {\n     }\n\n     override fun toString(): String = string\n\n     /**\n     * Clears the content of this string builder making it empty and returns this instance.\n     *\n     * @sample samples.text.Strings.clearStringBuilder\n     */\n     @SinceKotlin(\"1.3\")\n     public fun clear(): StringBuilder {\n         string = \"\"\n         return this\n     }\n\n     /**\n     * Sets the character at the specified [index] to the specified [value].\n     *\n     * @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n     */\n     @SinceKotlin(\"1.4\")\n     @WasExperimental(ExperimentalStdlibApi::class)\n     public operator fun set(index: Int, value: Char) {\n         AbstractList.checkElementIndex(index, length)\n\n         string = string.substring(0, index) + value + string.substring(index + 1)\n     }\n\n     /**\n     * Replaces characters in the specified range of this string builder with characters in the specified string [value] and returns this instance.\n     *\n     * @param startIndex the beginning (inclusive) of the range to replace.\n     * @param endIndex the end (exclusive) of the range to replace.\n     * @param value the string to replace with.\n     *\n     * @throws IndexOutOfBoundsException or [IllegalArgumentException] if [startIndex] is less than zero, greater than the length of this string builder, or `startIndex > endIndex`.\n     */\n     @SinceKotlin(\"1.4\")\n     @WasExperimental(ExperimentalStdlibApi::class)\n     public fun setRange(startIndex: Int, endIndex: Int, value: String): StringBuilder {\n         checkReplaceRange(startIndex, endIndex, length)\n\n         this.string = this.string.substring(0, startIndex) + value + this.string.substring(endIndex)\n         return this\n     }\n\n     private fun checkReplaceRange(startIndex: Int, endIndex: Int, length: Int) {\n         if (startIndex < 0 || startIndex > length) {\n             throw IndexOutOfBoundsException(\"startIndex: $startIndex, length: $length\")\n         }\n         if (startIndex > endIndex) {\n             throw IllegalArgumentException(\"startIndex($startIndex) > endIndex($endIndex)\")\n         }\n     }\n\n     /**\n     * Removes the character at the specified [index] from this string builder and returns this instance.\n     *\n     * If the `Char` at the specified [index] is part of a supplementary code point, this method does not remove the entire supplementary character.\n     *\n     * @param index the index of `Char` to remove.\n     *\n     * @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n     */\n     @SinceKotlin(\"1.4\")\n     @WasExperimental(ExperimentalStdlibApi::class)\n     public fun deleteAt(index: Int): StringBuilder {\n         AbstractList.checkElementIndex(index, length)\n\n         string =
```

string.substring(0, index) + string.substring(index + 1)\n return this\n }\n\n /**\n * Removes characters in the specified range from this string builder and returns this instance.\n *\n * @param startIndex the beginning (inclusive) of the range to remove.\n * @param endIndex
the end (exclusive) of the range to remove.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n */\n @SinceKotlin(\"1.4\")\n @WasExperimental(ExperimentalStdlibApi::class)\n public fun deleteRange(startIndex: Int, endIndex: Int): StringBuilder {\n checkReplaceRange(startIndex, endIndex, length)\n\n string = string.substring(0, startIndex) + string.substring(endIndex)\n return this\n }\n\n /**\n * Copies characters from this string builder into the [destination] character array.\n *\n * @param destination the array to copy to.\n * @param destinationOffset the position in the array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the range to copy, 0 by default.\n * @param endIndex the end (exclusive) of the range to copy, length of this string builder by default.\n
*\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n */\n @SinceKotlin(\"1.4\")\n @WasExperimental(ExperimentalStdlibApi::class)\n public fun toCharArray(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = this.length) {\n AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n AbstractList.checkBoundsIndexes(destinationOffset, destinationOffset + endIndex - startIndex, destination.size)\n\n var dstIndex = destinationOffset\n for (index in startIndex until endIndex) {\n destination[dstIndex++] = string[index]\n }\n }\n\n /**\n
* Appends characters in a subarray of the specified character array [value] to this string builder and returns this instance.\n *\n * Characters are appended in order, starting at specified [startIndex].\n *\n * @param value the array from which characters are appended.\n * @param startIndex the beginning (inclusive) of the subarray to append.\n * @param endIndex the end (exclusive) of the subarray to append.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.\n */\n @SinceKotlin(\"1.4\")\n @WasExperimental(ExperimentalStdlibApi::class)\n public fun appendRange(value: CharArray, startIndex: Int, endIndex: Int): StringBuilder {\n string += value.concatToString(startIndex, endIndex)\n return this\n }\n\n /**\n * Appends a subsequence of the specified character sequence [value] to this
string builder and returns this instance.\n *\n * @param value the character sequence from which a subsequence is appended.\n * @param startIndex the beginning (inclusive) of the subsequence to append.\n * @param endIndex the end (exclusive) of the subsequence to append.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.\n */\n @SinceKotlin(\"1.4\")\n @WasExperimental(ExperimentalStdlibApi::class)\n public fun appendRange(value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder {\n val stringCsq = value.toString()\n AbstractList.checkBoundsIndexes(startIndex, endIndex, stringCsq.length)\n\n string += stringCsq.substring(startIndex, endIndex)\n return this\n }\n\n /**\n * Inserts characters in a subarray of the specified character array [value] into this string
builder at the specified [index] and returns this instance.\n *\n * The inserted characters go in same order as in the [value] array, starting at [index].\n *\n * @param index the position in this string builder to insert at.\n * @param value the array from which characters are inserted.\n * @param startIndex the beginning (inclusive) of the subarray to insert.\n * @param endIndex the end (exclusive) of the subarray to insert.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n */\n @SinceKotlin(\"1.4\")\n

@WasExperimental(ExperimentalStdlibApi::class)\n public fun insertRange(index: Int, value: CharArray, startIndex: Int, endIndex: Int): StringBuilder {\n AbstractList.checkPositionIndex(index, this.length)\n\n string = string.substring(0, index) + value.concatToString(startIndex, endIndex) + string.substring(index)\n return this\n }\n\n /**\n * Inserts characters in a subsequence of the specified character sequence [value] into this string builder at the specified [index] and returns this instance.\n *\n * The inserted characters go in the same order as in the [value] character sequence, starting at [index].\n *\n * @param index the position in this string builder to insert at.\n * @param value the character sequence from which a subsequence is inserted.\n * @param startIndex the beginning (inclusive) of the subsequence to insert.\n * @param endIndex the end (exclusive) of the subsequence to insert.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n */\n @SinceKotlin(\"1.4\")\n @WasExperimental(ExperimentalStdlibApi::class)\n public fun insertRange(index: Int, value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder {\n AbstractList.checkPositionIndex(index, length)\n\n val stringCsq = value.toString()\n AbstractList.checkBoundsIndexes(startIndex, endIndex, stringCsq.length)\n\n string = string.substring(0, index) + stringCsq.substring(startIndex, endIndex) + string.substring(index)\n return this\n }\n}\n\n\n/**\n * Clears the content of this string builder making it empty and returns this instance.\n *\n * @sample samples.text.Strings.clearStringBuilder\n */\n@SinceKotlin(\"1.3\")\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\", \"NOTHING_TO_INLINE\")\npublic actual inline fun StringBuilder.clear(): StringBuilder = this.clear()\n\n/**\n * Sets the character at the specified [index] to the specified [value].\n *\n * @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\", \"NOTHING_TO_INLINE\")\npublic actual inline operator fun StringBuilder.set(index: Int, value: Char) = this.set(index, value)\n\n/**\n * Replaces characters in the specified range of this string builder with characters in the specified string [value] and returns this instance.\n *\n * @param startIndex the beginning (inclusive) of the range to replace.\n * @param endIndex the end (exclusive) of the range to replace.\n * @param value the string to replace with.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] if [startIndex] is less than zero, greater than the length of this string builder, or `startIndex > endIndex`.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\", \"NOTHING_TO_INLINE\")\npublic actual inline fun StringBuilder.setRange(startIndex: Int, endIndex: Int, value: String): StringBuilder =\n this.setRange(startIndex, endIndex, value)\n\n/**\n * Removes the character at the specified [index] from this string builder and returns this instance.\n *\n * If the `Char` at the specified [index] is part of a supplementary code point, this method does not remove the entire supplementary character.\n *\n * @param index the index of `Char` to remove.\n *\n * @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\", \"NOTHING_TO_INLINE\")\npublic actual inline fun StringBuilder.deleteAt(index: Int): StringBuilder = this.deleteAt(index)\n\n/**\n * Removes characters in the specified range from this string builder and returns this instance.\n *\n * @param startIndex the beginning (inclusive) of the range to remove.\n * @param endIndex the end (exclusive) of the range to remove.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\", \"NOTHING_TO_INLINE\")\npublic actual inline fun

StringBuilder.deleteRange(startIndex: Int, endIndex: Int): StringBuilder = this.deleteRange(startIndex, endIndex)\n\n/**\n * Copies characters from this string builder into the [destination] character array.\n *\n * @param destination the array to copy to.\n * @param destinationOffset the position in the array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the range to copy, 0 by default.\n * @param endIndex the end (exclusive) of the range to copy, length of this string builder by default.\n *\n * @throws IndexOutOfBoundsException
or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n *  or when that index is out of the [destination] array indices range.\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\", \"NOTHING_TO_INLINE\",
\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun StringBuilder.toCharArray(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = this.length) =\n    this.toCharArray(destination, destinationOffset, startIndex, endIndex)\n\n/**\n * Appends characters in a subarray of the specified character array [value] to this string builder and returns this instance.\n *\n * Characters are appended in order, starting at specified [startIndex].\n
*\n * @param value the array from which characters are appended.\n * @param startIndex the beginning (inclusive) of the subarray to append.\n * @param endIndex the end (exclusive) of the subarray to append.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\", \"NOTHING_TO_INLINE\")\npublic actual inline fun StringBuilder.appendRange(value: CharArray, startIndex: Int, endIndex: Int): StringBuilder =\n this.appendRange(value, startIndex, endIndex)\n\n/**\n * Appends a subsequence of the specified character sequence [value] to this string builder and returns this instance.\n *\n * @param value the character sequence from which a subsequence is appended.\n * @param startIndex the beginning (inclusive) of the subsequence to append.\n
* @param endIndex the end (exclusive) of the subsequence to append.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\", \"NOTHING_TO_INLINE\")\npublic actual inline fun StringBuilder.appendRange(value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder =\n this.appendRange(value, startIndex, endIndex)\n\n/**\n * Inserts characters in a subarray of the specified character array [value] into this string builder at the specified [index] and returns this instance.\n *\n * The inserted characters go in same order as in the [value] array, starting at [index].\n *\n * @param index the position in this string builder to insert at.\n * @param value the array from which characters are inserted.\n * @param startIndex the
beginning (inclusive) of the subarray to insert.\n * @param endIndex the end (exclusive) of the subarray to insert.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\", \"NOTHING_TO_INLINE\")\npublic actual inline fun StringBuilder.insertRange(index: Int, value: CharArray, startIndex: Int, endIndex: Int): StringBuilder =\n this.insertRange(index, value, startIndex, endIndex)\n\n/**\n * Inserts characters in a subsequence of the specified character sequence [value] into this string builder at the specified [index] and returns this instance.\n *\n * The inserted characters go in the same order as in the [value] character

sequence, starting at [index].\n *\n * @param index the position in this string builder to insert at.\n * @param value the character sequence from which a subsequence is inserted.\n * @param startIndex the beginning (inclusive) of the subsequence to insert.\n * @param endIndex the end (exclusive) of the subsequence to insert.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\", \"NOTHING_TO_INLINE\")\npublic actual inline fun StringBuilder.insertRange(index: Int, value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder =\n this.insertRange(index, value, startIndex, endIndex)\n","/*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n\n/**\n * Returns `true` if the content of this string is equal to the word \"true\", ignoring case, and `false` otherwise.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\n@kotlin.internal.InlineOnly\npublic actual inline fun String.toBoolean(): Boolean = this.toBoolean()\n\n/**\n * Returns `true` if this string is not `null` and its content is equal to the word \"true\", ignoring case, and `false` otherwise.\n *\n * There are also strict versions of the function available on non-nullable String, [toBooleanStrict] and [toBooleanStrictOrNull].\n */\n@SinceKotlin(\"1.4\")\npublic actual fun String?.toBoolean(): Boolean = this != null && this.lowercase() == \"true\"\n\n/**\n * Parses the string as
a signed [Byte] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n */\npublic actual fun String.toByte(): Byte = toByteOrNull() ?: numberFormatError(this)\n\n/**\n * Parses the string as a signed [Byte] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\npublic actual fun String.toByte(radix: Int): Byte = toByteOrNull(radix) ?: numberFormatError(this)\n\n\n/**\n * Parses the string as a [Short] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n */\npublic actual fun String.toShort(): Short = toShortOrNull() ?: numberFormatError(this)\n\n/**\n * Parses the string as a [Short] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\npublic actual fun String.toShort(radix: Int): Short = toShortOrNull(radix) ?: numberFormatError(this)\n\n/**\n * Parses the string as an [Int] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n */\npublic actual fun String.toInt(): Int = toIntOrNull() ?: numberFormatError(this)\n\n/**\n * Parses the string as an [Int] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\npublic actual fun String.toInt(radix: Int): Int = toIntOrNull(radix) ?: numberFormatError(this)\n\n/**\n * Parses the string as a [Long] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation
of a number.\n */\npublic actual fun String.toLong(): Long = toLongOrNull() ?: numberFormatError(this)\n\n/**\n * Parses the string as a [Long] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\npublic actual fun String.toLong(radix: Int): Long = toLongOrNull(radix) ?: numberFormatError(this)\n\n/**\n * Parses the string as a [Double] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n */\npublic actual fun String.toDouble(): Double = (+(this.asDynamic())).unsafeCast<Double>().also {\n if (it.isNaN() && !this.isNaN() || it == 0.0 && this.isBlank())\n numberFormatError(this)\n}\n\n/**\n * Parses the string as a [Float] number

```
and returns the result.\n * @throws NumberFormatException if the string is not a valid representation
 of a number.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun String.toFloat(): Float =
toDouble().unsafeCast<Float>()\n\n/**\n * Parses the string as a [Double] number and returns the result\n * or `null`
if the string is not a valid representation of a number.\n */\npublic actual fun String.toDoubleOrNull(): Double? =
(+(this.asDynamic())).unsafeCast<Double>().takeIf {\n    !(it.isNaN() && !this.isNaN() || it == 0.0 &&
this.isBlank())\n}\n\n/**\n * Parses the string as a [Float] number and returns the result\n * or `null` if the string is
not a valid representation of a number.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun
String.toFloatOrNull(): Float? = toDoubleOrNull().unsafeCast<Float?>()\n\n/**\n * Returns a string representation
of this [Byte] value in the specified [radix].\n *\n * @throws IllegalArgumentException when [radix] is not a valid
radix for number to string conversion.\n */\n@SinceKotlin(\"1.2\")\n@kotlin.internal.InlineOnly\npublic
 actual inline fun Byte.toString(radix: Int): String = this.toInt().toString(radix)\n\n/**\n * Returns a string
representation of this [Short] value in the specified [radix].\n *\n * @throws IllegalArgumentException when [radix]
is not a valid radix for number to string conversion.\n
*/\n@SinceKotlin(\"1.2\")\n@kotlin.internal.InlineOnly\npublic actual inline fun Short.toString(radix: Int): String =
this.toInt().toString(radix)\n\n/**\n * Returns a string representation of this [Int] value in the specified [radix].\n *\n
* @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\n
*/\n@SinceKotlin(\"1.2\")\npublic actual fun Int.toString(radix: Int): String =
asDynamic().toString(checkRadix(radix))\n\nprivate fun String.isNaN(): Boolean = when (this.lowercase()) {\n
\"nan\", \"+nan\", \"-nan\" -> true\n    else -> false\n}\n\n/**\n * Checks whether the given [radix] is valid radix for
string to number and number to string conversion.\n */\n@PublishedApi\ninternal
 actual fun checkRadix(radix: Int): Int {\n    if (radix !in 2..36) {\n        throw IllegalArgumentException(\"radix
$radix was not in valid range 2..36\")\n    }\n    return radix\n}\n\ninternal actual fun digitOf(char: Char, radix: Int):
Int = when {\n    char >= '0' && char <= '9' -> char - '0'\n    char >= 'A' && char <= 'Z' -> char - 'A' + 10\n    char >=
'a' && char <= 'z' -> char - 'a' + 10\n    char < '\\u0080' -> -1\n    char >= '\\uFF21' && char <= '\\uFF3A' -> char -
'\\uFF21' + 10 // full-width latin capital letter\n    char >= '\\uFF41' && char <= '\\uFF5A' -> char - '\\uFF41' + 10 //
full-width latin small letter\n    else -> char.digitToIntImpl()\n}.let { if (it >= radix) -1 else it }\n","/*\n * Copyright
2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\nimport
kotlin.js.RegExp\n\n/**\n
 * Provides enumeration values to use to set regular expression options.\n */\npublic actual enum class
RegexOption(val value: String) {\n    /** Enables case-insensitive matching. */\n    IGNORE_CASE(\"i\"),\n    /**
Enables multiline mode.\n     *\n     * In multiline mode the expressions `^` and `$` match just after or just before,\n
 * respectively, a line terminator or the end of the input sequence. */\n    MULTILINE(\"m\")\n}\n\nprivate fun
Iterable<RegexOption>.toFlags(prepend: String): String = joinToString(\"\", prefix = prepend) { it.value
}\n\n\n/**\n * Represents the results from a single capturing group within a [MatchResult] of [Regex].\n *\n *
@param value The value of captured group.\n */\npublic actual data class MatchGroup(actual val value:
String)\n\n\n/**\n * Represents a compiled regular expression.\n * Provides functions to match strings in text with a
pattern, replace the found occurrences and split text around matches.\n *\n * For pattern syntax reference
 see [MDN RegExp](https://developer.mozilla.org/en-
US/docs/Web/JavaScript/Reference/Global_Objects/RegExp#Special_characters_meaning_in_regular_expressions)\
n * and
[http://www.w3schools.com/jsref/jsref_obj_regexp.asp](https://www.w3schools.com/jsref/jsref_obj_regexp.asp).\n
*\n * Note that `RegExp` objects under the hood are constructed with [the \"u\"
flag](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/RegExp/unicode)\n * that
enables Unicode-related features in regular expressions. This also makes the pattern syntax more strict,\n * for
example, prohibiting unnecessary escape sequences.\n *\n * @constructor Creates a regular expression from the
specified [pattern] string and the specified set of [options].\n */\npublic actual class Regex actual
constructor(pattern: String, options: Set<RegexOption>) {\n\n    /** Creates a regular expression from the specified
```

```
[pattern] string and the specified single [option].  */\n    public actual constructor(pattern:
 String, option: RegexOption) : this(pattern, setOf(option))\n\n    /** Creates a regular expression from the specified
[pattern] string and the default options.  */\n    public actual constructor(pattern: String) : this(pattern,
emptySet())\n\n\n    /** The pattern string of this regular expression. */\n    public actual val pattern: String =
pattern\n    /** The set of options that were used to create this regular expression. */\n    public actual val options:
Set<RegexOption> = options.toSet()\n    private val nativePattern: RegExp = RegExp(pattern,
options.toFlags(\"gu\"))\n    private var nativeStickyPattern: RegExp? = null\n    private fun initStickyPattern():
RegExp =\n        nativeStickyPattern ?: RegExp(pattern, options.toFlags(\"yu\")).also { nativeStickyPattern = it }\n\n
  private var nativeMatchesEntirePattern: RegExp? = null\n    private fun initMatchesEntirePattern(): RegExp =\n
 nativeMatchesEntirePattern ?: run {\n            if (pattern.startsWith('^')
 && pattern.endsWith('$'))\n                nativePattern\n            else\n                return
RegExp(\"^${pattern.trimStart('^').trimEnd('$')}$\", options.toFlags(\"gu\"))\n        }.also {
nativeMatchesEntirePattern = it }\n\n\n    /** Indicates whether the regular expression matches the entire [input].
*/\n    public actual infix fun matches(input: CharSequence): Boolean {\n        nativePattern.reset()\n        val match
= nativePattern.exec(input.toString())\n        return match != null && match.index == 0 && nativePattern.lastIndex
== input.length\n    }\n\n    /** Indicates whether the regular expression can find at least one match in the specified
[input]. */\n    public actual fun containsMatchIn(input: CharSequence): Boolean {\n        nativePattern.reset()\n
return nativePattern.test(input.toString())\n    }\n\n    @SinceKotlin(\"1.5\")\n    @ExperimentalStdlibApi\n    public
actual fun matchesAt(input: CharSequence, index: Int): Boolean {\n        if (index < 0
 || index > input.length) {\n            throw IndexOutOfBoundsException(\"index out of bounds: $index, input length:
${input.length}\")\n        }\n        val pattern = initStickyPattern()\n        pattern.lastIndex = index\n        return
pattern.test(input.toString())\n    }\n\n    /**\n     * Returns the first match of a regular expression in the [input],
beginning at the specified [startIndex].\n     *\n     * @param startIndex An index to start search with, by default 0.
Must be not less than zero and not greater than `input.length()`\n     * @return An instance of [MatchResult] if
match was found or `null` otherwise.\n     * @throws IndexOutOfBoundsException if [startIndex] is less than zero
or greater than the length of the [input] char sequence.\n     * @sample samples.text.Regexps.find\n     */\n
@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\n    public actual fun find(input:
CharSequence, startIndex: Int = 0): MatchResult? {\n        if (startIndex < 0 || startIndex
 > input.length) {\n            throw IndexOutOfBoundsException(\"Start index out of bounds: $startIndex, input
length: ${input.length}\")\n        }\n        return nativePattern.findNext(input.toString(), startIndex, nativePattern)\n
}\n\n    /**\n     * Returns a sequence of all occurrences of a regular expression within the [input] string, beginning
at the specified [startIndex].\n     *\n     * @throws IndexOutOfBoundsException if [startIndex] is less than zero or
greater than the length of the [input] char sequence.\n     *\n     * @sample samples.text.Regexps.findAll\n     */\n
@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\n    public actual fun findAll(input:
CharSequence, startIndex: Int = 0): Sequence<MatchResult> {\n        if (startIndex < 0 || startIndex > input.length)
{\n            throw IndexOutOfBoundsException(\"Start index out of bounds: $startIndex, input length:
${input.length}\")\n        }\n        return generateSequence({ find(input, startIndex)
 }, { match -> match.next() })\n    }\n\n    /**\n     * Attempts to match the entire [input] CharSequence against the
pattern.\n     *\n     * @return An instance of [MatchResult] if the entire input matches or `null` otherwise.\n     */\n
public actual fun matchEntire(input: CharSequence): MatchResult? =\n
initMatchesEntirePattern().findNext(input.toString(), 0, nativePattern)\n\n    @SinceKotlin(\"1.5\")\n
@ExperimentalStdlibApi\n    public actual fun matchAt(input: CharSequence, index: Int): MatchResult? {\n        if
(index < 0 || index > input.length) {\n            throw IndexOutOfBoundsException(\"index out of bounds: $index,
input length: ${input.length}\")\n        }\n        return initStickyPattern().findNext(input.toString(), index,
nativePattern)\n    }\n\n\n    /**\n     * Replaces all occurrences of this regular expression in the specified [input]
string with specified [replacement] expression.\n     *\n     * The replacement string may contain references
 to the captured groups during a match. Occurrences of `$index`\n     * in the replacement string will be substituted
with the subsequences corresponding to the captured groups with the specified index.\n     * The first digit after '$' is
```

```
always treated as part of group reference. Subsequent digits are incorporated\n     * into `index` only if they would form a valid group reference. Only the digits '0'..'9' are considered as potential components\n     * of the group reference. Note that indexes of captured groups start from 1, and the group with index 0 is the whole match.\n     *\n     * Backslash character '\\' can be used to include the succeeding character as a literal in the replacement string, e.g, `\\$` or `\\\\`.\n     * [Regex.escapeReplacement] can be used if [replacement] have to be treated as a literal string.\n     *\n     * Note that referring named capturing groups by name is currently not supported in Kotlin/JS.\n     * However, you can still refer them by index.\n     *\n     * @param input the char sequence to find matches of this regular expression in\n     * @param replacement the expression to replace found matches with\n     * @return the result of replacing each occurrence of this regular expression in [input] with the result of evaluating the [replacement] expression\n     * @throws RuntimeException if [replacement] expression is malformed, or capturing group with specified `name` or `index` does not exist\n     */\npublic actual fun replace(input: CharSequence, replacement: String): String {\n        if (!replacement.contains('\\\\') && !replacement.contains('$')) {\n            return input.toString().nativeReplace(nativePattern, replacement)\n        }\n        return replace(input) { substituteGroupRefs(it, replacement) }\n    }\n\n    /**\n     * Replaces all occurrences of this regular expression in the specified [input] string with the result of\n     * the given function [transform] that takes [MatchResult] and returns a string
     to be used as a\n     * replacement for that match.\n     */\n    public actual fun replace(input: CharSequence, transform: (MatchResult) -> CharSequence): String {\n        var match = find(input)\n        if (match == null) return input.toString()\n\n        var lastStart = 0\n        val length = input.length\n        val sb = StringBuilder(length)\n        do {\n            val foundMatch = match!!\n            sb.append(input, lastStart, foundMatch.range.start)\n            sb.append(transform(foundMatch))\n            lastStart = foundMatch.range.endInclusive + 1\n            match = foundMatch.next()\n        } while (lastStart < length && match != null)\n\n        if (lastStart < length) {\n            sb.append(input, lastStart, length)\n        }\n\n        return sb.toString()\n    }\n\n    /**\n     * Replaces the first occurrence of this regular expression in the specified [input] string with specified [replacement] expression.\n     *\n     * The replacement string may contain
     references to the captured groups during a match. Occurrences of `$index`\n     * in the replacement string will be substituted with the subsequences corresponding to the captured groups with the specified index.\n     * The first digit after '$' is always treated as part of group reference. Subsequent digits are incorporated\n     * into `index` only if they would form a valid group reference. Only the digits '0'..'9' are considered as potential components\n     * of the group reference. Note that indexes of captured groups start from 1, and the group with index 0 is the whole match.\n     *\n     * Backslash character '\\' can be used to include the succeeding character as a literal in the replacement string, e.g, `\\$` or `\\\\`.\n     * [Regex.escapeReplacement] can be used if [replacement] have to be treated as a literal string.\n     *\n     * Note that referring named capturing groups by name is not supported currently in Kotlin/JS.\n     * However, you can still refer them
     by index.\n     *\n     * @param input the char sequence to find a match of this regular expression in\n     * @param replacement the expression to replace the found match with\n     * @return the result of replacing the first occurrence of this regular expression in [input] with the result of evaluating the [replacement] expression\n     * @throws RuntimeException if [replacement] expression is malformed, or capturing group with specified `name` or `index` does not exist\n     */\n    public actual fun replaceFirst(input: CharSequence, replacement: String): String {\n        if (!replacement.contains('\\\\') && !replacement.contains('$')) {\n            val nonGlobalOptions = options.toFlags(\"u\")\n            return input.toString().nativeReplace(RegExp(pattern, nonGlobalOptions), replacement)\n        }\n\n        val match = find(input) ?: return input.toString()\n\n        return buildString {\n            append(input.substring(0, match.range.first))\n            append(substituteGroupRefs(match,
     replacement))\n            append(input.substring(match.range.last + 1, input.length))\n        }\n    }\n\n    /**\n     * Splits the [input] CharSequence to a list of strings around matches of this regular expression.\n     *\n     * @param limit Non-negative value specifying the maximum number of substrings the string can be split to.\n     * Zero by default means no limit is set.\n     */\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\n    public actual fun split(input:
```

```
CharSequence, limit: Int = 0): List<String> {\n        requireNonNegativeLimit(limit)\n        val matches =
findAll(input).let { if (limit == 0) it else it.take(limit - 1) }\n        val result = mutableListOf<String>()\n        var
lastStart = 0\n\n        for (match in matches) {\n            result.add(input.subSequence(lastStart,
match.range.start).toString())\n            lastStart = match.range.endInclusive + 1\n        }\n
result.add(input.subSequence(lastStart, input.length).toString())\n
        return result\n    }\n\n    /**\n     * Splits the [input] CharSequence to a sequence of strings around matches of
this regular expression.\n     *\n     * @param limit Non-negative value specifying the maximum number of
substrings the string can be split to.\n     * Zero by default means no limit is set.\n     * @sample
samples.text.Regexps.splitToSequence\n     */\n    @SinceKotlin(\"1.6\")\n
@WasExperimental(ExperimentalStdlibApi::class)\n
@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\n    public actual fun
splitToSequence(input: CharSequence, limit: Int = 0): Sequence<String> {\n
requireNonNegativeLimit(limit)\n\n        return sequence {\n            var match = find(input)\n            if (match ==
null || limit == 1) {\n                yield(input.toString())\n                return@sequence\n            }\n\n            var
nextStart = 0\n            var splitCount = 0\n\n            do {\n                val foundMatch = match!!\n
                yield(input.substring(nextStart, foundMatch.range.first))\n                nextStart =
foundMatch.range.endInclusive + 1\n                match = foundMatch.next()\n            } while (++splitCount != limit -
1 && match != null)\n\n            yield(input.substring(nextStart, input.length))\n        }\n    }\n\n\n    /**\n     *
Returns the string representation of this regular expression, namely the [pattern] of this regular expression.\n     *\n
* Note that another regular expression constructed from the same pattern string may have different [options]\n     *
and may match strings differently.\n     */\n    public override fun toString(): String = nativePattern.toString()\n\n
actual companion object {\n        /**\n         * Returns a regular expression that matches the specified [literal] string
literally.\n         * No characters of that string will have special meaning when searching for an occurrence of the
regular expression.\n         */\n        public
 actual fun fromLiteral(literal: String): Regex = Regex(escape(literal))\n\n        /**\n         * Returns a regular
expression pattern string that matches the specified [literal] string literally.\n         * No characters of that string will
have special meaning when searching for an occurrence of the regular expression.\n         */\n        public actual fun
escape(literal: String): String = literal.nativeReplace(patternEscape, \"\\\\$&\")\n\n        /**\n         * Returns a literal
replacement expression for the specified [literal] string.\n         * No characters of that string will have special
meaning when it is used as a replacement string in [Regex.replace] function.\n         */\n        public actual fun
escapeReplacement(literal: String): String = literal.nativeReplace(replacementEscape, \"\\\\$&\")\n\n        private val
patternEscape = RegExp(\"\"\"[\\\\^$*+?.()|[\\]{}]\"\"\", \"g\")\n        private val replacementEscape =
RegExp(\"\"\"[\\$]\"\"\", \"g\")\n\n
    internal fun nativeEscapeReplacement(literal: String): String = literal.nativeReplace(nativeReplacementEscape,
\"$$$$\")\n        private val nativeReplacementEscape = RegExp(\"\"\"\\$\"\"\", \"g\")\n    }\n}\n\n\n\nprivate fun
RegExp.findNext(input: String, from: Int, nextPattern: RegExp): MatchResult? {\n    this.lastIndex = from\n    val
match = exec(input)\n    if (match == null) return null\n    val range = match.index..lastIndex - 1\n\n    return object :
MatchResult {\n        override val range: IntRange = range\n        override val value: String\n            get() =
match[0]!!\n\n        override val groups: MatchGroupCollection = object : MatchGroupCollection,
AbstractCollection<MatchGroup?>() {\n            override val size: Int get() = match.length\n            override fun
iterator(): Iterator<MatchGroup?> = indices.asSequence().map { this[it] }.iterator()\n            override fun get(index:
Int): MatchGroup? = match[index]?.let { MatchGroup(it) }\n        }\n\n\n
        private var groupValues_: List<String>? = null\n\n        override val groupValues: List<String>\n            get()
{\n                if (groupValues_ == null) {\n                    groupValues_ = object : AbstractList<String>() {\n
    override val size: Int get() = match.length\n                        override fun get(index: Int): String = match[index] ?:
\"\"\n                    }\n                }\n                return groupValues_!!\n            }\n\n        override fun next():
MatchResult? =\n            nextPattern.findNext(input, if (range.isEmpty()) range.start + 1 else range.endInclusive +
1, nextPattern)\n    }\n}\n\n// The same code from K/N Regex.kt\nprivate fun substituteGroupRefs(match:
```

```
MatchResult, replacement: String): String {\n    var index = 0\n    val result = StringBuilder(replacement.length)\n\n    while (index < replacement.length) {\n        val char = replacement[index++]\n        if (char == '\\') {\n            if (index ==
    replacement.length)\n                throw IllegalArgumentException(\"The Char to be escaped is missing\")\n\n            result.append(replacement[index++])\n        } else if (char == '$') {\n            if (index == replacement.length)\n                throw IllegalArgumentException(\"Capturing group index is missing\")\n\n            if (replacement[index] == '{')\n                throw IllegalArgumentException(\"Named capturing group reference currently is not supported\")\n\n            if (replacement[index] !in '0'..'9')\n                throw IllegalArgumentException(\"Invalid capturing group reference\")\n\n            val endIndex = replacement.readGroupIndex(index, match.groupValues.size)\n            val groupIndex = replacement.substring(index, endIndex).toInt()\n\n            if (groupIndex >= match.groupValues.size)\n                throw IndexOutOfBoundsException(\"Group with index $groupIndex does not exist\")\n\n            result.append(match.groupValues[groupIndex])\n
            index = endIndex\n        } else {\n            result.append(char)\n        }\n    }\n    return result.toString()\n}\n\nprivate fun String.readGroupIndex(startIndex: Int, groupCount: Int): Int {\n    // at least one digit after '$' is always captured\n    var index = startIndex + 1\n    var groupIndex = this[startIndex] - '0'\n\n    // capture the largest valid group index\n    while (index < length && this[index] in '0'..'9') {\n        val newGroupIndex = (groupIndex * 10) + (this[index] - '0')\n        if (newGroupIndex in 0 until groupCount) {\n            groupIndex = newGroupIndex\n            index++\n        } else {\n            break\n        }\n    }\n    return index\n}","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"StringsKt\")\n@file:Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\")\n\npackage kotlin.text\n\nimport kotlin.contracts.*\n\n/**\n * A mutable sequence of characters.\n *\n * String builder can be used to efficiently perform multiple string manipulation operations.\n */\nexpect class StringBuilder : Appendable, CharSequence {\n    /** Constructs an empty string builder. */\n    constructor()\n\n    /** Constructs an empty string builder with the specified initial [capacity]. */\n    constructor(capacity: Int)\n\n    /** Constructs a string builder that contains the same characters as the specified [content] char sequence. */\n    constructor(content: CharSequence)\n\n    /** Constructs a string builder that contains the same characters as the specified [content] string. */\n    @SinceKotlin(\"1.3\")\n//    @ExperimentalStdlibApi\n    constructor(content: String)\n\n    override val length: Int\n\n    override operator fun get(index: Int): Char\n\n    override fun subSequence(startIndex: Int, endIndex: Int): CharSequence\n\n    override fun append(value: Char): StringBuilder\n    override fun append(value: CharSequence?): StringBuilder\n    override fun append(value: CharSequence?, startIndex: Int, endIndex: Int): StringBuilder\n\n    /**\n     * Reverses the contents of this string builder and returns this instance.\n     *\n     * Surrogate pairs included in this string builder are treated as single characters.\n     * Therefore, the order of the high-low surrogates is never reversed.\n     *\n     * Note that the reverse operation may produce new surrogate pairs that were unpaired low-surrogates and high-surrogates before the operation.\n     * For example, reversing `\"\\uDC00\\uD800\"` produces `\"\\uD800\\uDC00\"` which is a valid surrogate pair.\n     */\n    fun reverse(): StringBuilder\n\n    /**\n     * Appends the string representation of the specified object [value] to this string builder and returns this instance.\n     *\n     * The overall effect is exactly as if the [value]
    were converted to a string by the `value.toString()` method,\n     * and then that string was appended to this string builder.\n     */\n    fun append(value: Any?): StringBuilder\n\n    /**\n     * Appends the string representation of the specified boolean [value] to this string builder and returns this instance.\n     *\n     * The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n     * and then that string was appended to this string builder.\n     */\n    @SinceKotlin(\"1.3\")\n    fun append(value: Boolean): StringBuilder\n\n    /**\n     * Appends characters in the specified character array [value] to this string builder and returns this instance.\n     *\n     * Characters are appended in order, starting at the index 0.\n     */\n    @SinceKotlin(\"1.4\")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    fun append(value: CharArray): StringBuilder\n\n    /**\n     * Appends the specified string [value] to this
```

```
 string builder and returns this instance.\n     *\n     * If [value] is `null`, then the four characters `\"null\"` are appended.\n     */\n    @SinceKotlin(\"1.3\")\n    fun append(value: String?): StringBuilder\n\n    /**\n     * Returns the current capacity of this string builder.\n     *\n     * The capacity is the maximum length this string builder can have before an allocation occurs.\n     */\n    @SinceKotlin(\"1.3\")\n//    @ExperimentalStdlibApi\n@Deprecated(\"Obtaining StringBuilder capacity is not supported in JS and common code.\", level = DeprecationLevel.ERROR)\n    fun capacity(): Int\n\n    /**\n     * Ensures that the capacity of this string builder is at least equal to the specified [minimumCapacity].\n     *\n     * If the current capacity is less than the [minimumCapacity], a new backing storage is allocated with greater capacity.\n     * Otherwise, this method takes no action and simply returns.\n     */\n    @SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n    fun ensureCapacity(minimumCapacity: Int)\n\n    /**\n     * Returns the index within this string builder of the first occurrence of the specified [string].\n     *\n     * Returns `-1` if the specified [string] does not occur in this string builder.\n     */\n    @SinceKotlin(\"1.4\")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    fun indexOf(string: String): Int\n\n    /**\n     * Returns the index within this string builder of the first occurrence of the specified [string],\n     * starting at the specified [startIndex].\n     *\n     * Returns `-1` if the specified [string] does not occur in this string builder starting at the specified [startIndex].\n     */\n    @SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n    fun indexOf(string: String, startIndex: Int): Int\n\n    /**\n     * Returns the index within this string builder of the last occurrence of the specified [string].\n     * The last occurrence of empty string
 `\"\"` is considered to be at the index equal to `this.length`.\n     *\n     * Returns `-1` if the specified [string] does not occur in this string builder.\n     */\n    @SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n    fun lastIndexOf(string: String): Int\n\n    /**\n     * Returns the index within this string builder of the last occurrence of the specified [string],\n     * starting from the specified [startIndex] toward the beginning.\n     *\n     * Returns `-1` if the specified [string] does not occur in this string builder starting at the specified [startIndex].\n     */\n    @SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n    fun lastIndexOf(string: String, startIndex: Int): Int\n\n    /**\n     * Inserts the string representation of the specified boolean [value] into this string builder at the specified [index] and returns this instance.\n     *\n     * The overall effect is exactly as if the [value] were converted to
 a string by the `value.toString()` method,\n     * and then that string was inserted into this string builder at the specified [index].\n     *\n     * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n     */\n    @SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n    fun insert(index: Int, value: Boolean): StringBuilder\n\n    /**\n     * Inserts the specified character [value] into this string builder at the specified [index] and returns this instance.\n     *\n     * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n     */\n    @SinceKotlin(\"1.4\")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    fun insert(index: Int, value: Char): StringBuilder\n\n    /**\n     * Inserts characters in the specified character array [value] into this string builder at the specified [index] and returns this instance.\n     *\n     * The
 inserted characters go in same order as in the [value] character array, starting at [index].\n     *\n     * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n     */\n    @SinceKotlin(\"1.4\")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    fun insert(index: Int, value: CharArray): StringBuilder\n\n    /**\n     * Inserts characters in the specified character sequence [value] into this string builder at the specified [index] and returns this instance.\n     *\n     * The inserted characters go in the same order as in the [value] character sequence, starting at [index].\n     *\n     * @param index the position in this string builder to insert at.\n     * @param value the character sequence from which characters are inserted. If [value] is `null`, then the four characters `\"null\"` are inserted.\n     *\n     * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string
 builder.\n     */\n    @SinceKotlin(\"1.4\")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    fun insert(index: Int, value: CharSequence?): StringBuilder\n\n    /**\n     * Inserts the string representation of the
```

specified object [value] into this string builder at the specified [index] and returns this instance.\n *\n * The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n * and then that string was inserted into this string builder at the specified [index].\n *\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n */\n @SinceKotlin(\"1.4\")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun insert(index: Int, value: Any?): StringBuilder\n\n /**\n * Inserts the string [value] into this string builder at the specified [index] and returns this instance.\n *\n * If [value] is `null`, then the four characters `\"null\"` are inserted.\n *\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n */\n @SinceKotlin(\"1.4\")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun insert(index: Int, value: String?): StringBuilder\n\n /**\n * Sets the length of this string builder to the specified [newLength].\n *\n * If the [newLength] is less than the current length, it is changed to the specified [newLength].\n * Otherwise, null characters '\\u0000' are appended to this string builder until its length is less than the [newLength].\n *\n * Note that in Kotlin/JS [set] operator function has non-constant execution time complexity.\n * Therefore, increasing length of this string builder and then updating each character by index may slow down your program.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] if [newLength] is less than zero.\n */\n @SinceKotlin(\"1.4\")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun setLength(newLength: Int)\n\n /**\n * Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the [length] (exclusive).\n *\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or greater than the length of this string builder.\n */\n @SinceKotlin(\"1.4\")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun substring(startIndex: Int): String\n\n /**\n * Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the [endIndex] (exclusive).\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n */\n @SinceKotlin(\"1.4\")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun substring(startIndex: Int, endIndex: Int): String\n\n /**\n * Attempts to reduce storage used for this string builder.\n *\n * If the backing storage of this string builder is larger than necessary to hold its current contents,\n * then it may be resized to become more space efficient.\n * Calling this method may, but is not required to, affect the value of the [capacity] property.\n */\n @SinceKotlin(\"1.4\")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun trimToSize()\n}\n\n\n/**\n * Clears the content of this string builder making it empty and returns this instance.\n *\n * @sample samples.text.Strings.clearStringBuilder\n */\n@SinceKotlin(\"1.3\")\npublic expect fun StringBuilder.clear(): StringBuilder\n\n/**\n * Sets the character at the specified [index] to the specified [value].\n *\n * @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect operator fun StringBuilder.set(index: Int, value: Char)\n\n/**\n * Replaces characters in the specified range of this string builder with characters in the specified string [value] and returns this instance.\n *\n * @param startIndex the beginning (inclusive) of the range to replace.\n * @param endIndex the end (exclusive) of the range to replace.\n * @param value the string to replace with.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] if [startIndex] is less than zero, greater than the length of this string builder, or `startIndex > endIndex`.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun StringBuilder.setRange(startIndex: Int, endIndex: Int, value: String): StringBuilder\n\n/**\n * Removes the character at the specified [index] from this string builder and returns this instance.\n *\n * If the `Char` at the specified [index] is part of a supplementary code point, this method does not remove the entire supplementary character.\n *\n * @param index the index of `Char` to remove.\n *\n * @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun StringBuilder.deleteAt(index: Int): StringBuilder\n\n/**\n * Removes characters in the specified range from this string builder and returns this instance.\n *\n * @param startIndex the beginning (inclusive) of the range to

remove.\n * @param endIndex the end (exclusive) of the range to remove.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun StringBuilder.deleteRange(startIndex: Int, endIndex: Int): StringBuilder\n\n/**\n * Copies characters from this string builder into the [destination] character array.\n *\n * @param destination the array to copy to.\n * @param destinationOffset the position in the array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the range to copy, 0 by default.\n * @param endIndex the end (exclusive) of the range to copy, length of this string builder by default.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n *  or when that index is out of the [destination] array indices range.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun StringBuilder.toCharArray(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = this.length)\n\n/**\n * Appends characters in a subarray of the specified character array [value] to this string builder and returns this instance.\n *\n * Characters are appended in order, starting at specified [startIndex].\n *\n * @param value the array from which characters are appended.\n * @param startIndex the beginning (inclusive) of the subarray to append.\n * @param endIndex the end (exclusive) of the subarray to append.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun StringBuilder.appendRange(value: CharArray, startIndex: Int, endIndex: Int): StringBuilder\n\n/**\n * Appends a subsequence of the specified character sequence [value] to this string builder and returns this instance.\n *\n * @param value the character sequence from which a subsequence is appended.\n * @param startIndex the beginning (inclusive) of the subsequence to append.\n * @param endIndex the end (exclusive) of the subsequence to append.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun StringBuilder.appendRange(value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder\n\n/**\n * Inserts characters in a subarray of the specified character array [value] into this string builder at the specified [index] and returns this instance.\n *\n * The inserted characters go in same order as in the [value] array, starting at [index].\n *\n * @param index the position in this string builder to insert at.\n * @param value the array from which characters are inserted.\n * @param startIndex the beginning (inclusive) of the subarray to insert.\n * @param endIndex the end (exclusive) of the subarray to insert.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun StringBuilder.insertRange(index: Int, value: CharArray, startIndex: Int, endIndex: Int): StringBuilder\n\n/**\n * Inserts characters in a subsequence of the specified character sequence [value] into this string builder at the specified [index] and returns this instance.\n *\n * The inserted characters go in the same order as in the [value] character sequence, starting at [index].\n *\n * @param index the position in this string builder to insert at.\n * @param value the character sequence from which a subsequence is inserted.\n * @param startIndex the beginning (inclusive) of the subsequence to insert.\n * @param endIndex the end (exclusive) of the subsequence to insert.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the

[value] character sequence indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun StringBuilder.insertRange(index: Int, value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder\n\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\")\n@Deprecated(\"Use append(value: Any?) instead\", ReplaceWith(\"append(value = obj)\"), DeprecationLevel.WARNING)\n@kotlin.internal.InlineOnly\npublic inline fun StringBuilder.append(obj: Any?): StringBuilder = this.append(obj)\n\n/**\n * Builds new string by populating newly created [StringBuilder] using provided [builderAction]\n * and then converting it to [String].\n */\n@kotlin.internal.InlineOnly\npublic inline fun buildString(builderAction: StringBuilder.() -> Unit): String {\n contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n return StringBuilder().apply(builderAction).toString()\n}\n\n/**\n * Builds new string by populating newly created [StringBuilder] initialized with the given [capacity]\n * using provided [builderAction] and then converting it to [String].\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun buildString(capacity: Int, builderAction: StringBuilder.() -> Unit): String {\n contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n return StringBuilder(capacity).apply(builderAction).toString()\n}\n\n/**\n * Appends all arguments to the given StringBuilder.\n */\npublic fun StringBuilder.append(vararg value: String?): StringBuilder {\n for (item in value)\n append(item)\n return this\n}\n\n/**\n * Appends all arguments to the given StringBuilder.\n */\npublic fun StringBuilder.append(vararg value: Any?): StringBuilder {\n for (item in value)\n append(item)\n return this\n}\n\n/** Appends a line feed character (`\\n`) to this StringBuilder. */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun StringBuilder.appendLine(): StringBuilder = append('\\n')\n\n/** Appends [value] to this [StringBuilder], followed by a line feed character (`\\n`). */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun StringBuilder.appendLine(value: CharSequence?): StringBuilder = append(value).appendLine()\n\n/** Appends [value] to this [StringBuilder], followed by a line feed character (`\\n`). */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun StringBuilder.appendLine(value: String?): StringBuilder = append(value).appendLine()\n\n/** Appends [value] to this [StringBuilder], followed by a line feed character (`\\n`). */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun StringBuilder.appendLine(value: Any?): StringBuilder = append(value).appendLine()\n\n/** Appends [value] to this [StringBuilder], followed by a line feed character (`\\n`). */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun StringBuilder.appendLine(value: CharArray): StringBuilder = append(value).appendLine()\n\n/** Appends [value] to this [StringBuilder], followed by a line feed character (`\\n`). */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun StringBuilder.appendLine(value: Char): StringBuilder = append(value).appendLine()\n\n/** Appends [value] to this [StringBuilder], followed by a line feed character (`\\n`). */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun StringBuilder.appendLine(value: Boolean): StringBuilder = append(value).appendLine()\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\nimport kotlin.js.RegExp\n\n@kotlin.internal.InlineOnly\ninternal actual inline fun String.nativeIndexOf(ch: Char, fromIndex: Int): Int = nativeIndexOf(ch.toString(), fromIndex)\n\n@kotlin.internal.InlineOnly\ninternal actual inline fun String.nativeLastIndexOf(ch: Char, fromIndex: Int): Int = nativeLastIndexOf(ch.toString(), fromIndex)\n\n/**\n * Returns `true` if this string starts with the specified prefix.\n */\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun String.startsWith(prefix: String, ignoreCase: Boolean = false): Boolean {\n if (!ignoreCase)\n return nativeStartsWith(prefix, 0)\n else\n return regionMatches(0, prefix, 0, prefix.length, ignoreCase)\n}\n\n/**\n * Returns `true` if a substring of this string starting at the specified offset [startIndex] starts with the specified prefix.\n

```
*/\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic
 actual fun String.startsWith(prefix: String, startIndex: Int, ignoreCase: Boolean = false): Boolean {\n    if
(!ignoreCase)\n        return nativeStartsWith(prefix, startIndex)\n    else\n        return regionMatches(startIndex,
prefix, 0, prefix.length, ignoreCase)\n}\n\n/**\n * Returns `true` if this string ends with the specified suffix.\n
*/\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun
String.endsWith(suffix: String, ignoreCase: Boolean = false): Boolean {\n    if (!ignoreCase)\n        return
nativeEndsWith(suffix)\n    else\n        return regionMatches(length - suffix.length, suffix, 0, suffix.length,
ignoreCase)\n}\n\n@Deprecated(\"Use Regex.matches() instead\",
ReplaceWith(\"regex.toRegex().matches(this)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.6\")\npublic fun
String.matches(regex: String): Boolean {\n    @Suppress(\"DEPRECATION\")\n    val result = this.match(regex)\n
return result != null && result.size != 0\n}\n\n/**\n *
 Returns `true` if this string is empty or consists solely of whitespace characters.\n *\n * @sample
samples.text.Strings.stringIsBlank\n */\npublic actual fun CharSequence.isBlank(): Boolean = length == 0 ||
indices.all { this[it].isWhitespace() }\n\n/**\n * Returns `true` if this string is equal to [other], optionally ignoring
character case.\n *\n * Two strings are considered to be equal if they have the same length and the same character at
the same index.\n * If [ignoreCase] is true, the result of `Char.uppercaseChar().lowercaseChar()` on each character
is compared.\n *\n * @param ignoreCase `true` to ignore character case when comparing strings. By default
`false`.\n */\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun
String?.equals(other: String?, ignoreCase: Boolean = false): Boolean {\n    if (this == null) return other == null\n    if
(other == null) return false\n    if (!ignoreCase) return this == other\n\n    if (this.length != other.length) return
 false\n\n    for (index in 0 until this.length) {\n        val thisChar = this[index]\n        val otherChar = other[index]\n
    if (!thisChar.equals(otherChar, ignoreCase)) {\n            return false\n        }\n    }\n\n    return
true\n}\n\n\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun
CharSequence.regionMatches(thisOffset: Int, other: CharSequence, otherOffset: Int, length: Int, ignoreCase:
Boolean = false): Boolean =\n    regionMatchesImpl(thisOffset, other, otherOffset, length, ignoreCase)\n\n\n/**\n *
Returns a copy of this string having its first letter titlecased using the rules of the default locale,\n * or the original
string if it's empty or already starts with a title case letter.\n *\n * The title case of a character is usually the same as
its upper case with several exceptions.\n * The particular list of characters with the special title case form depends
on the underlying platform.\n *\n * @sample samples.text.Strings.capitalize\n */\n@Deprecated(\"Use
 replaceFirstChar instead.\", ReplaceWith(\"replaceFirstChar { if (it.isLowerCase()) it.titlecase() else it.toString()
}\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic actual fun String.capitalize(): String {\n    return if
(isNotEmpty()) substring(0, 1).uppercase() + substring(1) else this\n}\n\n/**\n * Returns a copy of this string having
its first letter lowercased using the rules of the default locale,\n * or the original string if it's empty or already starts
with a lower case letter.\n *\n * @sample samples.text.Strings.decapitalize\n */\n@Deprecated(\"Use
replaceFirstChar instead.\", ReplaceWith(\"replaceFirstChar { it.lowercase()
}\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic actual fun String.decapitalize(): String {\n    return
if (isNotEmpty()) substring(0, 1).lowercase() + substring(1) else this\n}\n\n/**\n * Returns a string containing this
char sequence repeated [n] times.\n * @throws [IllegalArgumentException] when n < 0.\n *
 @sample samples.text.Strings.repeat\n */\npublic actual fun CharSequence.repeat(n: Int): String {\n    require(n >=
0) { \"Count 'n' must be non-negative, but was $n.\" }\n    return when (n) {\n        0 -> \"\"\n        1 ->
this.toString()\n        else -> {\n            var result = \"\"\n            if (!isEmpty()) {\n                var s = this.toString()\n
                var count = n\n                while (true) {\n                    if ((count and 1) == 1) {\n                        result += s\n
                    }\n                    count = count ushr 1\n                    if (count == 0) {\n                        break\n                    }\n
                    s += s\n                }\n            }\n            return result\n        }\n    }\n}\n\n/**\n * Returns a new string
obtained by replacing all occurrences of the [oldValue] substring in this string\n * with the specified [newValue]
string.\n *\n * @sample samples.text.Strings.replace\n
*/\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic
```

```
 actual fun String.replace(oldValue: String, newValue: String, ignoreCase: Boolean = false): String =\n nativeReplace(RegExp(Regex.escape(oldValue), if (ignoreCase) \"gui\" else \"gu\"), Regex.nativeEscapeReplacement(newValue))\n\n/**\n * Returns a new string with all occurrences of [oldChar] replaced with [newChar].\n *\n * @sample samples.text.Strings.replace\n */\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun String.replace(oldChar: Char, newChar: Char, ignoreCase: Boolean = false): String =\n nativeReplace(RegExp(Regex.escape(oldChar.toString()), if (ignoreCase) \"gui\" else \"gu\"), newChar.toString())\n\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun String.replaceFirst(oldValue: String, newValue: String, ignoreCase: Boolean = false): String =\n nativeReplace(RegExp(Regex.escape(oldValue), if (ignoreCase) \"ui\" else \"u\"), Regex.nativeEscapeReplacement(newValue))\n\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic
 actual fun String.replaceFirst(oldChar: Char, newChar: Char, ignoreCase: Boolean = false): String =\n nativeReplace(RegExp(Regex.escape(oldChar.toString()), if (ignoreCase) \"ui\" else \"u\"), newChar.toString())\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/** Returns the negative [size] if [throwOnMalformed] is false, throws [CharacterCodingException] otherwise. */\nprivate fun malformed(size: Int, index: Int, throwOnMalformed: Boolean): Int {\n    if (throwOnMalformed) throw CharacterCodingException(\"Malformed sequence starting at ${index - 1}\")\n    return -size\n}\n\n/**\n * Returns code point corresponding to UTF-16 surrogate pair,\n * where the first of the pair is the [high] and the second is in the [string] at the [index].\n
 * Returns zero if the pair is malformed and [throwOnMalformed] is false.\n *\n * @throws CharacterCodingException if the pair is malformed and [throwOnMalformed] is true.\n */\nprivate fun codePointFromSurrogate(string: String, high: Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {\n    if (high !in 0xD800..0xDBFF || index >= endIndex) {\n        return malformed(0, index, throwOnMalformed)\n    }\n
  val low = string[index].code\n    if (low !in 0xDC00..0xDFFF) {\n        return malformed(0, index, throwOnMalformed)\n    }\n    return 0x10000 + ((high and 0x3FF) shl 10) or (low and 0x3FF)\n}\n\n/**\n * Returns code point corresponding to UTF-8 sequence of two bytes,\n * where the first byte of the sequence is the [byte1] and the second byte is in the [bytes] array at the [index].\n * Returns zero if the sequence is malformed and [throwOnMalformed] is false.\n *\n * @throws CharacterCodingException if the sequence of two bytes is malformed and [throwOnMalformed] is
 true.\n */\nprivate fun codePointFrom2(bytes: ByteArray, byte1: Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {\n    if (byte1 and 0x1E == 0 || index >= endIndex) {\n        return malformed(0, index, throwOnMalformed)\n    }\n    val byte2 = bytes[index].toInt()\n    if (byte2 and 0xC0 != 0x80) {\n        return malformed(0, index, throwOnMalformed)\n    }\n    return (byte1 shl 6) xor byte2 xor 0xF80\n}\n\n/**\n * Returns code point corresponding to UTF-8 sequence of three bytes,\n * where the first byte of the sequence is the [byte1] and the others are in the [bytes] array starting from the [index].\n * Returns a non-positive value indicating number of bytes from [bytes] included in malformed sequence\n * if the sequence is malformed and [throwOnMalformed] is false.\n *\n * @throws CharacterCodingException if the sequence of three bytes is malformed and [throwOnMalformed] is true.\n */\nprivate fun codePointFrom3(bytes: ByteArray, byte1: Int, index: Int, endIndex:
 Int, throwOnMalformed: Boolean): Int {\n    if (index >= endIndex) {\n        return malformed(0, index, throwOnMalformed)\n    }\n\n    val byte2 = bytes[index].toInt()\n    if (byte1 and 0xF == 0) {\n        if (byte2 and 0xE0 != 0xA0) {\n            // Non-shortest form\n            return malformed(0, index, throwOnMalformed)\n        }\n    } else if (byte1 and 0xF == 0xD) {\n        if (byte2 and 0xE0 != 0x80) {\n            // Surrogate code point\n            return malformed(0, index, throwOnMalformed)\n        }\n    } else if (byte2 and 0xC0 != 0x80) {\n        return malformed(0, index, throwOnMalformed)\n    }\n\n    if (index + 1 == endIndex) {\n        return malformed(1, index, throwOnMalformed)\n    }\n    val byte3 = bytes[index + 1].toInt()\n    if (byte3 and 0xC0 != 0x80) {\n        return malformed(1, index, throwOnMalformed)\n    }\n\n    return (byte1 shl 12) xor (byte2 shl 6) xor byte3 xor -
```

```
0x1E080\n}\n\n/**\n * Returns code point corresponding to UTF-8 sequence
 of four bytes,\n * where the first byte of the sequence is the [byte1] and the others are in the [bytes] array starting
from the [index].\n * Returns a non-positive value indicating number of bytes from [bytes] included in malformed
sequence\n * if the sequence is malformed and [throwOnMalformed] is false.\n *\n * @throws
CharacterCodingException if the sequence of four bytes is malformed and [throwOnMalformed] is true.\n
*/\nprivate fun codePointFrom4(bytes: ByteArray, byte1: Int, index: Int, endIndex: Int, throwOnMalformed:
Boolean): Int {\n    if (index >= endIndex) {\n        malformed(0, index, throwOnMalformed)\n    }\n\n    val byte2 =
bytes[index].toInt()\n    if (byte1 and 0xF == 0x0) {\n        if (byte2 and 0xF0 <= 0x80) {\n            // Non-shortest
form\n            return malformed(0, index, throwOnMalformed)\n        }\n    } else if (byte1 and 0xF == 0x4) {\n
if (byte2 and 0xF0 != 0x80) {\n            // Out of Unicode code points domain (larger than U+10FFFF)\n
            return malformed(0, index, throwOnMalformed)\n        }\n    } else if (byte1 and 0xF > 0x4) {\n        return
malformed(0, index, throwOnMalformed)\n    } else if (byte2 and 0xC0 != 0x80) {\n        return malformed(0, index,
throwOnMalformed)\n    }\n\n    if (index + 1 == endIndex) {\n        return malformed(1, index,
throwOnMalformed)\n    }\n    val byte3 = bytes[index + 1].toInt()\n    if (byte3 and 0xC0 != 0x80) {\n        return
malformed(1, index, throwOnMalformed)\n    }\n\n    if (index + 2 == endIndex) {\n        return malformed(2, index,
throwOnMalformed)\n    }\n    val byte4 = bytes[index + 2].toInt()\n    if (byte4 and 0xC0 != 0x80) {\n        return
malformed(2, index, throwOnMalformed)\n    }\n    return (byte1 shl 18) xor (byte2 shl 12) xor (byte3 shl 6) xor
byte4 xor 0x381F80\n}\n\n/**\n * Maximum number of bytes needed to encode a single char.\n *\n * Code points in
`0..0x7F` are encoded in a single byte.\n * Code points in `0x80..0x7FF` are encoded
 in two bytes.\n * Code points in `0x800..0xD7FF` or in `0xE000..0xFFFF` are encoded in three bytes.\n * Surrogate
code points in `0xD800..0xDFFF` are not Unicode scalar values, therefore aren't encoded.\n * Code points in
`0x10000..0x10FFFF` are represented by a pair of surrogate `Char`s and are encoded in four bytes.\n */\nprivate
const val MAX_BYTES_PER_CHAR = 3\n\n/**\n * The byte sequence a malformed UTF-16 char sequence is
replaced by.\n */\nprivate val REPLACEMENT_BYTE_SEQUENCE: ByteArray = byteArrayOf(0xEF.toByte(),
0xBF.toByte(), 0xBD.toByte())\n\n/**\n * Encodes the [string] using UTF-8 and returns the resulting [ByteArray].\n
*\n * @param string the string to encode.\n * @param startIndex the start offset (inclusive) of the substring to
encode.\n * @param endIndex the end offset (exclusive) of the substring to encode.\n * @param
throwOnMalformed whether to throw on malformed char sequence or replace by the
[REPLACEMENT_BYTE_SEQUENCE].\n *\n * @throws CharacterCodingException
 if the char sequence is malformed and [throwOnMalformed] is true.\n */\ninternal fun encodeUtf8(string: String,
startIndex: Int, endIndex: Int, throwOnMalformed: Boolean): ByteArray {\n    require(startIndex >= 0 && endIndex
<= string.length && startIndex <= endIndex)\n\n    val bytes = ByteArray((endIndex - startIndex) *
MAX_BYTES_PER_CHAR)\n    var byteIndex = 0\n    var charIndex = startIndex\n\n    while (charIndex <
endIndex) {\n        val code = string[charIndex++].code\n        when {\n            code < 0x80 ->\n
bytes[byteIndex++] = code.toByte()\n            code < 0x800 -> {\n                bytes[byteIndex++] = ((code shr 6) or
0xC0).toByte()\n                bytes[byteIndex++] = ((code and 0x3F) or 0x80).toByte()\n            }\n            code <
0xD800 || code >= 0xE000 -> {\n                bytes[byteIndex++] = ((code shr 12) or 0xE0).toByte()\n
bytes[byteIndex++] = (((code shr 6) and 0x3F) or 0x80).toByte()\n                bytes[byteIndex++]
 = ((code and 0x3F) or 0x80).toByte()\n            }\n            else -> { // Surrogate char value\n                val codePoint
= codePointFromSurrogate(string, code, charIndex, endIndex, throwOnMalformed)\n                if (codePoint <= 0)
{\n                    bytes[byteIndex++] = REPLACEMENT_BYTE_SEQUENCE[0]\n                    bytes[byteIndex++]
= REPLACEMENT_BYTE_SEQUENCE[1]\n                    bytes[byteIndex++] =
REPLACEMENT_BYTE_SEQUENCE[2]\n                } else {\n                    bytes[byteIndex++] = ((codePoint shr
18) or 0xF0).toByte()\n                    bytes[byteIndex++] = (((codePoint shr 12) and 0x3F) or 0x80).toByte()\n
    bytes[byteIndex++] = (((codePoint shr 6) and 0x3F) or 0x80).toByte()\n                    bytes[byteIndex++] =
((codePoint and 0x3F) or 0x80).toByte()\n                    charIndex++\n                }\n            }\n        }\n    }\n\n
return if (bytes.size == byteIndex) bytes else bytes.copyOf(byteIndex)\n}\n\n/**\n
```

```
 * The character a malformed UTF-8 byte sequence is replaced by.\n */\nprivate const val REPLACEMENT_CHAR = '\\uFFFD'\n\n/**\n * Decodes the UTF-8 [bytes] array and returns the resulting [String].\n *\n * @param bytes the byte array to decode.\n * @param startIndex the start offset (inclusive) of the array to be decoded.\n * @param endIndex the end offset (exclusive) of the array to be encoded.\n * @param throwOnMalformed whether to throw on malformed byte sequence or replace by the [REPLACEMENT_CHAR].\n *\n * @throws CharacterCodingException if the array is malformed UTF-8 byte sequence and [throwOnMalformed] is true.\n */\ninternal fun decodeUtf8(bytes: ByteArray, startIndex: Int, endIndex: Int, throwOnMalformed: Boolean): String {\n    require(startIndex >= 0 && endIndex <= bytes.size && startIndex <= endIndex)\n\n    var byteIndex = startIndex\n    val stringBuilder = StringBuilder()\n\n    while (byteIndex < endIndex) {\n        val byte = bytes[byteIndex++].toInt()\n
    when {\n            byte >= 0 ->\n                stringBuilder.append(byte.toChar())\n            byte shr 5 == -2 -> {\n
        val code = codePointFrom2(bytes, byte, byteIndex, endIndex, throwOnMalformed)\n                if (code <= 0) {\n                    stringBuilder.append(REPLACEMENT_CHAR)\n                    byteIndex += -code\n                } else {\n                    stringBuilder.append(code.toChar())\n                    byteIndex += 1\n                }\n            }\n            byte shr 4 == -2 -> {\n                val code = codePointFrom3(bytes, byte, byteIndex, endIndex, throwOnMalformed)\n                if (code <= 0) {\n                    stringBuilder.append(REPLACEMENT_CHAR)\n                    byteIndex += -code\n                } else {\n                    stringBuilder.append(code.toChar())\n                    byteIndex += 2\n                }\n            }\n            byte shr 3 == -2 -> {\n                val code = codePointFrom4(bytes, byte, byteIndex, endIndex, throwOnMalformed)\n                if (code <= 0) {\n                    stringBuilder.append(REPLACEMENT_CHAR)\n                    byteIndex += -code\n                } else {\n                    val high = (code - 0x10000) shr 10 or 0xD800\n                    val low = (code and 0x3FF) or 0xDC00\n                    stringBuilder.append(high.toChar())\n                    stringBuilder.append(low.toChar())\n                    byteIndex += 3\n                }\n            }\n            else -> {\n                malformed(0, byteIndex, throwOnMalformed)\n                stringBuilder.append(REPLACEMENT_CHAR)\n            }\n        }\n    }\n\n    return stringBuilder.toString()\n}","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\n/**\n * Returns the detailed description of this throwable with its stack trace.\n *\n * The detailed description includes:\n * - the short description (see [Throwable.toString]) of this throwable;\n * - the complete stack trace;\n * - detailed descriptions of the exceptions that were [suppressed][suppressedExceptions] in order to deliver this exception;\n * - the detailed description of each throwable in the [Throwable.cause] chain.\n */\n@SinceKotlin(\"1.4\")\npublic actual fun Throwable.stackTraceToString(): String = ExceptionTraceBuilder().buildFor(this)\n\n/**\n * Prints the [detailed description][Throwable.stackTraceToString] of this throwable to console error output.\n */\n@SinceKotlin(\"1.4\")\npublic actual fun Throwable.printStackTrace() {\n    console.error(this.stackTraceToString())\n}\n\n/**\n * Adds the specified exception to the list of exceptions that were\n * suppressed in order to deliver this exception.\n */\n@SinceKotlin(\"1.4\")\npublic actual fun Throwable.addSuppressed(exception: Throwable) {\n
    if (this !== exception) {\n        val suppressed = this.asDynamic()._suppressed.unsafeCast<MutableList<Throwable>?>()\n        if (suppressed == null) {\n            this.asDynamic()._suppressed = mutableListOf(exception)\n        } else {\n            suppressed.add(exception)\n        }\n    }\n}\n\n/**\n * Returns a list of all exceptions that were suppressed in order to deliver this exception.\n */\n@SinceKotlin(\"1.4\")\npublic actual val Throwable.suppressedExceptions: List<Throwable>\n    get() {\n        return this.asDynamic()._suppressed?.unsafeCast<List<Throwable>>() ?: emptyList()\n    }\n\n\nprivate class ExceptionTraceBuilder {\n    private val target = StringBuilder()\n    private val visited = arrayOf<Throwable>()\n    private var topStack: String = \"\"\n    private var topStackStart: Int = 0\n\n    fun buildFor(exception: Throwable): String {\n        exception.dumpFullTrace(\"\", \"\")\n        return target.toString()\n    }\n\n    private fun hasSeen(exception:
```

```
Throwable): Boolean = visited.any { it === exception }\n\n    private fun Throwable.dumpFullTrace(indent: String, qualifier: String) {\n        this.dumpSelfTrace(indent, qualifier) || return\n\n        var cause = this.cause\n        while (cause != null) {\n            cause.dumpSelfTrace(indent, \"Caused by: \") || return\n            cause = cause.cause\n        }\n    }\n\n    private fun Throwable.dumpSelfTrace(indent: String, qualifier: String): Boolean {\n        target.append(indent).append(qualifier)\n        val shortInfo = this.toString()\n        if (hasSeen(this)) {\n            target.append(\"[CIRCULAR REFERENCE, SEE ABOVE: \").append(shortInfo).append(\"]\\n\")\n            return false\n        }\n        visited.asDynamic().push(this)\n\n        var stack = this.asDynamic().stack as String?\n        if (stack != null) {\n            val stackStart = stack.indexOf(shortInfo).let { if (it < 0) 0 else it + shortInfo.length }\n            if (stackStart == 0) target.append(shortInfo).append(\"\\n\")\n            if (topStack.isEmpty()) {\n                topStack = stack\n                topStackStart = stackStart\n            } else {\n                stack = dropCommonFrames(stack, stackStart)\n            }\n            if (indent.isNotEmpty()) {\n                // indent stack, but avoid indenting exception message lines\n                val messageLines = if (stackStart == 0) 0 else 1 + shortInfo.count { c -> c == '\\n' }\n                stack.lineSequence().forEachIndexed { index: Int, line: String ->\n                    if (index >= messageLines) target.append(indent)\n                    target.append(line).append(\"\\n\")\n                }\n            } else {\n                target.append(stack).append(\"\\n\")\n            }\n        } else {\n            target.append(shortInfo).append(\"\\n\")\n        }\n\n        val suppressed = suppressedExceptions\n        if (suppressed.isNotEmpty()) {\n            val suppressedIndent = indent + \"    \"\n            for (s in suppressed) {\n                s.dumpFullTrace(suppressedIndent, \"Suppressed: \")\n            }\n        }\n        return true\n    }\n\n    private fun dropCommonFrames(stack: String, stackStart: Int): String {\n        var commonFrames: Int = 0\n        var lastBreak: Int = 0\n        var preLastBreak: Int = 0\n        for (pos in 0 until minOf(topStack.length - topStackStart, stack.length - stackStart)) {\n            val c = stack[stack.lastIndex - pos]\n            if (c != topStack[topStack.lastIndex - pos]) break\n            if (c == '\\n') {\n                commonFrames += 1\n                preLastBreak = lastBreak\n                lastBreak = pos\n            }\n        }\n        if (commonFrames <= 1) return stack\n        while (preLastBreak > 0 && stack[stack.lastIndex - (preLastBreak - 1)] == ' ')\n            preLastBreak -= 1\n\n        // leave 1 common frame to ease matching with the top exception stack\n        return stack.dropLast(preLastBreak) + \"... and ${commonFrames - 1} more common stack frames skipped\"\n    }\n}","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\nimport kotlin.js.json\nimport kotlin.math.*\n\ninternal actual inline val durationAssertionsEnabled: Boolean get() = true\n\ninternal actual fun formatToExactDecimals(value: Double, decimals: Int): String {\n    val rounded = if (decimals == 0) {\n        value\n    } else {\n        val pow = 10.0.pow(decimals)\n        JsMath.round(abs(value) * pow) / pow * sign(value)\n    }\n    return if (abs(rounded) < 1e21) {\n        // toFixed switches to scientific format after 1e21\n        rounded.asDynamic().toFixed(decimals).unsafeCast<String>()\n    } else {\n        // toPrecision outputs the specified number of digits, but only for positive numbers\n        val positive = abs(rounded)\n        val positiveString = positive.asDynamic().toPrecision(ceil(log10(positive)) + decimals).unsafeCast<String>()\n        if (rounded < 0) \"-$positiveString\" else positiveString\n    }\n}\n\ninternal actual fun formatUpToDecimals(value: Double, decimals: Int): String {\n    return value.asDynamic().toLocaleString(\"en-us\", json(\"maximumFractionDigits\" to decimals)).unsafeCast<String>()\n}\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalTime::class)\npublic actual enum class DurationUnit(internal val scale: Double) {\n    /**\n     * Time unit representing one nanosecond, which is 1/1000 of a microsecond.\n     */\n    NANOSECONDS(1e0),\n    /**\n     * Time unit representing one microsecond, which is 1/1000 of a millisecond.\n     */\n    MICROSECONDS(1e3),\n    /**\n     * Time unit representing one millisecond, which is 1/1000 of a second.\n     */\n    MILLISECONDS(1e6),\n    /**\n     * Time unit representing one second.\n     */\n    SECONDS(1e9),\n    /**\n     * Time unit representing one minute.\n     */\n
```

MINUTES(60e9),\n /**\n * Time unit representing one hour.\n */\n HOURS(3600e9),\n /**\n * Time unit representing one day, which is always equal to 24 hours.\n */\n DAYS(86400e9);\n}\n\n@SinceKotlin(\"1.3\")\ninternal actual fun convertDurationUnit(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double {\n val sourceCompareTarget = sourceUnit.scale.compareTo(targetUnit.scale)\n return when {\n sourceCompareTarget > 0 -> value * (sourceUnit.scale / targetUnit.scale)\n sourceCompareTarget < 0 -> value / (targetUnit.scale / sourceUnit.scale)\n else -> value\n }\n}\n\n@SinceKotlin(\"1.5\")\ninternal actual fun convertDurationUnitOverflow(value: Long, sourceUnit: DurationUnit, targetUnit: DurationUnit): Long {\n val sourceCompareTarget = sourceUnit.scale.compareTo(targetUnit.scale)\n return when {\n sourceCompareTarget > 0 -> value * (sourceUnit.scale / targetUnit.scale).toLong()\n sourceCompareTarget < 0 -> value / (targetUnit.scale / sourceUnit.scale).toLong()\n else -> value\n }\n}\n\n@SinceKotlin(\"1.5\")\ninternal actual fun convertDurationUnit(value: Long, sourceUnit: DurationUnit, targetUnit: DurationUnit): Long {\n val sourceCompareTarget = sourceUnit.scale.compareTo(targetUnit.scale)\n return when {\n sourceCompareTarget > 0 -> {\n val scale = (sourceUnit.scale / targetUnit.scale).toLong()\n val result = value * scale\n when {\n result / scale == value -> result\n value > 0 -> Long.MAX_VALUE\n else -> Long.MIN_VALUE\n }\n }\n sourceCompareTarget < 0 -> value / (targetUnit.scale / sourceUnit.scale).toLong()\n else -> value\n }\n}\n\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\nimport org.w3c.performance.GlobalPerformance\nimport org.w3c.performance.Performance\n\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\ninternal actual object MonotonicTimeSource : TimeSource {\n\n private val actualSource: TimeSource = run {\n val isNode: Boolean = js(\"typeof process !== 'undefined' && process.versions && !!process.versions.node\")\n\n if (isNode)\n HrTimeSource(js(\"process\").unsafeCast<Process>())\n else\n js(\"self\").unsafeCast<GlobalPerformance?>()?.performance?.let(::PerformanceTimeSource)\n ?: DateNowTimeSource\n\n }\n\n override fun markNow(): TimeMark = actualSource.markNow()\n}\n\ninternal external interface Process {\n fun hrtime(time: Array<Double> = definedExternally): Array<Double>\n}\n\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\ninternal class HrTimeSource(val process: Process) : TimeSource {\n\n override fun markNow(): TimeMark = object : TimeMark() {\n val startedAt = process.hrtime()\n override fun elapsedNow(): Duration =\n process.hrtime(startedAt).let { (seconds, nanos) -> seconds.toDuration(DurationUnit.SECONDS) + nanos.toDuration(DurationUnit.NANOSECONDS) }\n }\n\n override fun toString(): String = \"TimeSource(process.hrtime())\"\n}\n\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\ninternal class PerformanceTimeSource(val performance: Performance) : AbstractDoubleTimeSource(unit = DurationUnit.MILLISECONDS) {\n override fun read(): Double = performance.now()\n override fun toString(): String = \"TimeSource(self.performance.now())\"\n}\n\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\ninternal object DateNowTimeSource : AbstractDoubleTimeSource(unit = DurationUnit.MILLISECONDS) {\n override fun read(): Double = kotlin.js.Date.now()\n override fun toString(): String = \"TimeSource(Date.now())\"\n}","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlinx.dom\n\nimport org.w3c.dom.*\nimport kotlin.contracts.*\n\n/**\n * Creates a new element with the specified [name].\n *\n * The element is initialized with the specified [init] function.\n */\n@SinceKotlin(\"1.4\")\npublic fun Document.createElement(name: String, init: Element.() -> Unit): Element {\n contract { callsInPlace(init, InvocationKind.EXACTLY_ONCE) }\n return createElement(name).apply(init)\n}\n\n/**\n * Appends a newly created element with the specified [name] to this element.\n *\n * The element is initialized with the specified [init] function.\n */\n@SinceKotlin(\"1.4\")\npublic fun Element.appendElement(name: String, init: Element.() -> Unit): Element {\n contract { callsInPlace(init, InvocationKind.EXACTLY_ONCE) }\n return

ownerDocument!!.createElement(name, init).also { appendChild(it) }\n}\n\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlinx.dom\n\nimport org.w3c.dom.*\n\n/** Returns true if the element has the given CSS class style in its 'class' attribute */\n@SinceKotlin(\"1.4\")\nfun Element.hasClass(cssClass: String): Boolean = className.matches(\"\\\"(^|.*\\s+)$cssClass($|\\s+.*)\\\"\".toRegex())\n\n/**\n * Adds CSS class to element. Has no effect if all specified classes are already in class attribute of the element\n *\n * @return true if at least one class has been added\n */\n@SinceKotlin(\"1.4\")\nfun Element.addClass(vararg cssClasses: String): Boolean {\n val missingClasses = cssClasses.filterNot { hasClass(it) }\n if (missingClasses.isNotEmpty()) {\n val presentClasses = className.trim()\n className = buildString {\n append(presentClasses)\n if (!presentClasses.isEmpty()) {\n append(\" \")\n }\n missingClasses.joinTo(this, \" \")\n }\n return true\n }\n\n return false\n}\n\n/**\n * Removes all [cssClasses] from element. Has no effect if all specified classes are missing in class attribute of the element\n *\n * @return true if at least one class has been removed\n */\n@SinceKotlin(\"1.4\")\nfun Element.removeClass(vararg cssClasses: String): Boolean {\n if (cssClasses.any { hasClass(it) }) {\n val toBeRemoved = cssClasses.toSet()\n className = className.trim().split(\"\\\\s+\".toRegex()).filter { it !in toBeRemoved }.joinToString(\" \")\n return true\n }\n\n return false\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"StringsKt\")\n\npackage kotlin.text\n\n/**\n * Converts the string into a regular expression [Regex] with the default options.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.toRegex(): Regex = Regex(this)\n\n/**\n * Converts the string into a regular expression [Regex] with the specified single [option].\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.toRegex(option: RegexOption): Regex = Regex(this, option)\n\n/**\n * Converts the string into a regular expression [Regex] with the specified set of [options].\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.toRegex(options: Set<RegexOption>): Regex = Regex(this, options)\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlinx.dom\n\nimport org.w3c.dom.*\n\n/**\n * Gets a value indicating whether this node is a TEXT_NODE or a CDATA_SECTION_NODE.\n */\n@SinceKotlin(\"1.4\")\npublic val Node.isText: Boolean\n get() = nodeType == Node.TEXT_NODE || nodeType == Node.CDATA_SECTION_NODE\n\n/**\n * Gets a value indicating whether this node is an [Element].\n */\n@SinceKotlin(\"1.4\")\npublic val Node.isElement: Boolean\n get() = nodeType == Node.ELEMENT_NODE\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlinx.dom\n\nimport org.w3c.dom.*\n\n/** Removes all the children from this node. */\n@SinceKotlin(\"1.4\")\npublic fun Node.clear() {\n while (hasChildNodes()) {\n removeChild(firstChild!!)\n }\n}\n\n/**\n * Creates text node and append it to the element.\n *\n * @return this element\n */\n@SinceKotlin(\"1.4\")\nfun Element.appendText(text: String): Element {\n appendChild(ownerDocument!!.createTextNode(text))\n return this\n}\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage org.w3c.dom\n\n@Deprecated(\"Use UnionMessagePortOrWindowProxy instead.\", ReplaceWith(\"UnionMessagePortOrWindowProxy\"))\ntypealias UnionMessagePortOrWindow = UnionMessagePortOrWindowProxy\n\n@Deprecated(\"Use `as` instead.\", ReplaceWith(\"`as`\"))\nvar HTMLLinkElement.as_\n get() = `as`\n set(value) {\n `as` = value\n }\n\n@Deprecated(\"Use `is` instead.\", ReplaceWith(\"`is`\"))\nvar ElementCreationOptions.is_\n

get() = `is`\n    set(value) {\n        `is` = value\n    }","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.khronos.webgl\n\nimport kotlin.js.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\n\npublic external interface WebGLContextAttributes {\n    var alpha: Boolean? /* = true */\n        get() = definedExternally\n        set(value) = definedExternally\n    var depth: Boolean? /* = true */\n        get() = definedExternally\n        set(value) = definedExternally\n    var stencil: Boolean? /* = false */\n        get() = definedExternally\n        set(value) = definedExternally\n    var antialias: Boolean? /* = true */\n        get() = definedExternally\n        set(value) = definedExternally\n    var premultipliedAlpha: Boolean? /* = true */\n        get() = definedExternally\n        set(value) = definedExternally\n    var preserveDrawingBuffer: Boolean? /* = false */\n        get() = definedExternally\n        set(value) = definedExternally\n    var preferLowPowerToHighPerformance: Boolean? /* = false */\n        get() = definedExternally\n        set(value) = definedExternally\n    var failIfMajorPerformanceCaveat: Boolean? /* = false */\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun WebGLContextAttributes(alpha: Boolean? = true, depth: Boolean? = true, stencil: Boolean? = false, antialias: Boolean? = true, premultipliedAlpha: Boolean? = true, preserveDrawingBuffer: Boolean? = false, preferLowPowerToHighPerformance: Boolean? = false, failIfMajorPerformanceCaveat: Boolean? = false): WebGLContextAttributes {\n    val o = js(\"({})\")\n    o[\"alpha\"] = alpha\n    o[\"depth\"] = depth\n    o[\"stencil\"] = stencil\n    o[\"antialias\"] = antialias\n    o[\"premultipliedAlpha\"] = premultipliedAlpha\n    o[\"preserveDrawingBuffer\"] = preserveDrawingBuffer\n    o[\"preferLowPowerToHighPerformance\"] = preferLowPowerToHighPerformance\n    o[\"failIfMajorPerformanceCaveat\"] = failIfMajorPerformanceCaveat\n    return o\n}\n\npublic external abstract class WebGLObject\n\n/**\n * Exposes the JavaScript [WebGLBuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLBuffer) to Kotlin\n */\npublic external abstract class WebGLBuffer : WebGLObject\n\n/**\n * Exposes the JavaScript [WebGLFramebuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLFramebuffer) to Kotlin\n */\npublic external abstract class WebGLFramebuffer : WebGLObject\n\n/**\n * Exposes the JavaScript [WebGLProgram](https://developer.mozilla.org/en/docs/Web/API/WebGLProgram) to Kotlin\n */\npublic external abstract class WebGLProgram : WebGLObject\n\n/**\n * Exposes the JavaScript [WebGLRenderbuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLRenderbuffer) to Kotlin\n */\npublic external abstract class WebGLRenderbuffer : WebGLObject\n\n/**\n * Exposes the JavaScript [WebGLShader](https://developer.mozilla.org/en/docs/Web/API/WebGLShader) to Kotlin\n */\npublic external abstract class WebGLShader : WebGLObject\n\n/**\n * Exposes the JavaScript [WebGLTexture](https://developer.mozilla.org/en/docs/Web/API/WebGLTexture) to Kotlin\n */\npublic external abstract class WebGLTexture : WebGLObject\n\n/**\n * Exposes the JavaScript [WebGLUniformLocation](https://developer.mozilla.org/en/docs/Web/API/WebGLUniformLocation) to Kotlin\n */\npublic external abstract class WebGLUniformLocation\n\n/**\n * Exposes the JavaScript [WebGLActiveInfo](https://developer.mozilla.org/en/docs/Web/API/WebGLActiveInfo) to Kotlin\n */\npublic external abstract class WebGLActiveInfo {\n    open val size: Int\n    open val type: Int\n    open val name: String\n}\n\n/**\n * Exposes the JavaScript [WebGLShaderPrecisionFormat](https://developer.mozilla.org/en/docs/Web/API/WebGLShaderPrecisionFormat) to Kotlin\n */\npublic external abstract class WebGLShaderPrecisionFormat {\n    open val rangeMin: Int\n    open val rangeMax: Int\n    open val precision: Int\n}\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface WebGLRenderingContextBase {\n    val canvas: HTMLCanvasElement\n    val drawingBufferWidth: Int\n    val

drawingBufferHeight: Int\n fun getContextAttributes(): WebGLContextAttributes?\n fun isContextLost(): Boolean\n fun getSupportedExtensions(): Array<String>?\n fun getExtension(name: String): dynamic\n fun activeTexture(texture: Int)\n fun attachShader(program: WebGLProgram?, shader: WebGLShader?)\n fun bindAttribLocation(program: WebGLProgram?, index: Int, name: String)\n fun bindBuffer(target: Int, buffer: WebGLBuffer?)\n fun bindFramebuffer(target: Int, framebuffer: WebGLFramebuffer?)\n fun bindRenderbuffer(target: Int, renderbuffer: WebGLRenderbuffer?)\n fun bindTexture(target: Int, texture: WebGLTexture?)\n fun blendColor(red: Float, green: Float, blue: Float, alpha: Float)\n fun blendEquation(mode: Int)\n fun blendEquationSeparate(modeRGB: Int, modeAlpha: Int)\n fun blendFunc(sfactor: Int, dfactor: Int)\n fun blendFuncSeparate(srcRGB: Int, dstRGB: Int, srcAlpha: Int, dstAlpha: Int)\n fun bufferData(target: Int, size: Int, usage: Int)\n fun bufferData(target: Int, data: BufferDataSource?, usage: Int)\n fun bufferSubData(target: Int, offset: Int, data: BufferDataSource?)\n fun checkFramebufferStatus(target: Int): Int\n fun clear(mask: Int)\n fun clearColor(red: Float, green: Float, blue: Float, alpha: Float)\n fun clearDepth(depth: Float)\n fun clearStencil(s: Int)\n fun colorMask(red: Boolean, green: Boolean, blue: Boolean, alpha: Boolean)\n fun compileShader(shader: WebGLShader?)\n fun compressedTexImage2D(target:
Int, level: Int, internalformat: Int, width: Int, height: Int, border: Int, data: ArrayBufferView)\n fun compressedTexSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, width: Int, height: Int, format: Int, data: ArrayBufferView)\n fun copyTexImage2D(target: Int, level: Int, internalformat: Int, x: Int, y: Int, width: Int, height: Int, border: Int)\n fun copyTexSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, x: Int, y: Int, width: Int, height: Int)\n fun createBuffer(): WebGLBuffer?\n fun createFramebuffer(): WebGLFramebuffer?\n fun createProgram(): WebGLProgram?\n fun createRenderbuffer(): WebGLRenderbuffer?\n fun createShader(type: Int): WebGLShader?\n fun createTexture(): WebGLTexture?\n fun cullFace(mode: Int)\n fun deleteBuffer(buffer: WebGLBuffer?)\n fun deleteFramebuffer(framebuffer: WebGLFramebuffer?)\n fun deleteProgram(program: WebGLProgram?)\n fun deleteRenderbuffer(renderbuffer: WebGLRenderbuffer?)\n fun deleteShader(shader: WebGLShader?)\n fun deleteTexture(texture: WebGLTexture?)\n fun depthFunc(func: Int)\n fun depthMask(flag: Boolean)\n fun depthRange(zNear: Float, zFar: Float)\n fun detachShader(program: WebGLProgram?, shader: WebGLShader?)\n fun disable(cap: Int)\n fun disableVertexAttribArray(index: Int)\n fun drawArrays(mode: Int, first: Int, count: Int)\n fun drawElements(mode: Int, count: Int, type: Int, offset: Int)\n fun enable(cap: Int)\n fun enableVertexAttribArray(index: Int)\n fun finish()\n fun flush()\n fun framebufferRenderbuffer(target: Int, attachment: Int, renderbuffertarget: Int, renderbuffer: WebGLRenderbuffer?)\n fun framebufferTexture2D(target: Int, attachment: Int, textarget: Int, texture: WebGLTexture?, level: Int)\n fun frontFace(mode: Int)\n fun generateMipmap(target: Int)\n fun getActiveAttrib(program: WebGLProgram?, index: Int): WebGLActiveInfo?\n fun getActiveUniform(program: WebGLProgram?,
index: Int): WebGLActiveInfo?\n fun getAttachedShaders(program: WebGLProgram?): Array<WebGLShader>?\n fun getAttribLocation(program: WebGLProgram?, name: String): Int\n fun getBufferParameter(target: Int, pname: Int): Any?\n fun getParameter(pname: Int): Any?\n fun getError(): Int\n fun getFramebufferAttachmentParameter(target: Int, attachment: Int, pname: Int): Any?\n fun getProgramParameter(program: WebGLProgram?, pname: Int): Any?\n fun getProgramInfoLog(program: WebGLProgram?): String?\n fun getRenderbufferParameter(target: Int, pname: Int): Any?\n fun getShaderParameter(shader: WebGLShader?, pname: Int): Any?\n fun getShaderPrecisionFormat(shadertype: Int, precisiontype: Int): WebGLShaderPrecisionFormat?\n fun getShaderInfoLog(shader: WebGLShader?): String?\n fun getShaderSource(shader: WebGLShader?): String?\n fun getTexParameter(target: Int, pname: Int): Any?\n fun getUniform(program: WebGLProgram?, location: WebGLUniformLocation?):
Any?\n fun getUniformLocation(program: WebGLProgram?, name: String): WebGLUniformLocation?\n fun getVertexAttrib(index: Int, pname: Int): Any?\n fun getVertexAttribOffset(index: Int, pname: Int): Int\n fun hint(target: Int, mode: Int)\n fun isBuffer(buffer: WebGLBuffer?): Boolean\n fun isEnabled(cap: Int): Boolean\n fun isFramebuffer(framebuffer: WebGLFramebuffer?): Boolean\n fun isProgram(program: WebGLProgram?):

Boolean\n fun isRenderbuffer(renderbuffer: WebGLRenderbuffer?): Boolean\n fun isShader(shader: WebGLShader?): Boolean\n fun isTexture(texture: WebGLTexture?): Boolean\n fun lineWidth(width: Float)\n fun linkProgram(program: WebGLProgram?)\n fun pixelStorei(pname: Int, param: Int)\n fun polygonOffset(factor: Float, units: Float)\n fun readPixels(x: Int, y: Int, width: Int, height: Int, format: Int, type: Int, pixels: ArrayBufferView?)\n fun renderbufferStorage(target: Int, internalformat: Int, width: Int, height: Int)\n fun sampleCoverage(value: Float, invert: Boolean)\n fun scissor(x: Int, y: Int, width: Int, height: Int)\n fun shaderSource(shader: WebGLShader?, source: String)\n fun stencilFunc(func: Int, ref: Int, mask: Int)\n fun stencilFuncSeparate(face: Int, func: Int, ref: Int, mask: Int)\n fun stencilMask(mask: Int)\n fun stencilMaskSeparate(face: Int, mask: Int)\n fun stencilOp(fail: Int, zfail: Int, zpass: Int)\n fun stencilOpSeparate(face: Int, fail: Int, zfail: Int, zpass: Int)\n fun texImage2D(target: Int, level: Int, internalformat: Int, width: Int, height: Int, border: Int, format: Int, type: Int, pixels: ArrayBufferView?)\n fun texImage2D(target: Int, level: Int, internalformat: Int, format: Int, type: Int, source: TexImageSource?)\n fun texParameterf(target: Int, pname: Int, param: Float)\n fun texParameteri(target: Int, pname: Int, param: Int)\n fun texSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, width: Int, height: Int, format: Int, type: Int, pixels: ArrayBufferView?)\n fun texSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, format: Int, type: Int, source: TexImageSource?)\n fun uniform1f(location: WebGLUniformLocation?, x: Float)\n fun uniform1fv(location: WebGLUniformLocation?, v: Float32Array)\n fun uniform1fv(location: WebGLUniformLocation?, v: Array<Float>)\n fun uniform1i(location: WebGLUniformLocation?, x: Int)\n fun uniform1iv(location: WebGLUniformLocation?, v: Int32Array)\n fun uniform1iv(location: WebGLUniformLocation?, v: Array<Int>)\n fun uniform2f(location: WebGLUniformLocation?, x: Float, y: Float)\n fun uniform2fv(location: WebGLUniformLocation?, v: Float32Array)\n fun uniform2fv(location: WebGLUniformLocation?, v: Array<Float>)\n fun uniform2i(location: WebGLUniformLocation?, x: Int, y: Int)\n fun uniform2iv(location: WebGLUniformLocation?, v: Int32Array)\n fun uniform2iv(location: WebGLUniformLocation?, v: Array<Int>)\n fun uniform3f(location: WebGLUniformLocation?, x: Float, y: Float, z: Float)\n fun uniform3fv(location: WebGLUniformLocation?, v: Float32Array)\n fun uniform3fv(location: WebGLUniformLocation?, v: Array<Float>)\n fun uniform3i(location: WebGLUniformLocation?, x: Int, y: Int, z: Int)\n fun uniform3iv(location: WebGLUniformLocation?, v: Int32Array)\n fun uniform3iv(location: WebGLUniformLocation?, v: Array<Int>)\n fun uniform4f(location: WebGLUniformLocation?, x: Float, y: Float, z: Float, w: Float)\n fun uniform4fv(location: WebGLUniformLocation?, v: Float32Array)\n fun uniform4fv(location: WebGLUniformLocation?, v: Array<Float>)\n fun uniform4i(location: WebGLUniformLocation?, x: Int, y: Int, z: Int, w: Int)\n fun uniform4iv(location: WebGLUniformLocation?, v: Int32Array)\n fun uniform4iv(location: WebGLUniformLocation?, v: Array<Int>)\n fun uniformMatrix2fv(location: WebGLUniformLocation?, transpose: Boolean, value: Float32Array)\n fun uniformMatrix2fv(location: WebGLUniformLocation?, transpose: Boolean, value: Array<Float>)\n fun uniformMatrix3fv(location: WebGLUniformLocation?, transpose: Boolean, value: Float32Array)\n fun uniformMatrix3fv(location: WebGLUniformLocation?, transpose: Boolean, value: Array<Float>)\n fun uniformMatrix4fv(location: WebGLUniformLocation?, transpose: Boolean, value: Float32Array)\n fun uniformMatrix4fv(location: WebGLUniformLocation?, transpose: Boolean, value: Array<Float>)\n fun useProgram(program: WebGLProgram?)\n fun validateProgram(program: WebGLProgram?)\n fun vertexAttrib1f(index: Int, x: Float)\n fun vertexAttrib1fv(index: Int, values: dynamic)\n fun vertexAttrib2f(index: Int, x: Float, y: Float)\n fun vertexAttrib2fv(index: Int, values: dynamic)\n fun vertexAttrib3f(index: Int, x: Float, y: Float, z: Float)\n fun vertexAttrib3fv(index: Int, values: dynamic)\n fun vertexAttrib4f(index: Int, x: Float, y: Float, z: Float, w: Float)\n fun vertexAttrib4fv(index: Int, values: dynamic)\n fun vertexAttribPointer(index: Int, size: Int, type: Int, normalized: Boolean, stride: Int, offset: Int)\n fun viewport(x: Int, y: Int, width: Int, height: Int)\n\n companion object {\n val DEPTH_BUFFER_BIT: Int\n val STENCIL_BUFFER_BIT: Int\n val COLOR_BUFFER_BIT: Int\n val POINTS: Int\n val LINES: Int\n val LINE_LOOP: Int\n val LINE_STRIP: Int\n val

TRIANGLES: Int\n val TRIANGLE_STRIP: Int\n val TRIANGLE_FAN: Int\n val ZERO: Int\n val ONE: Int\n val SRC_COLOR: Int\n val ONE_MINUS_SRC_COLOR: Int\n val SRC_ALPHA: Int\n val ONE_MINUS_SRC_ALPHA: Int\n val DST_ALPHA: Int\n val ONE_MINUS_DST_ALPHA: Int\n val DST_COLOR: Int\n val ONE_MINUS_DST_COLOR: Int\n val SRC_ALPHA_SATURATE: Int\n val FUNC_ADD: Int\n val BLEND_EQUATION: Int\n val BLEND_EQUATION_RGB: Int\n val BLEND_EQUATION_ALPHA: Int\n val FUNC_SUBTRACT: Int\n val FUNC_REVERSE_SUBTRACT: Int\n val BLEND_DST_RGB: Int\n val BLEND_SRC_RGB: Int\n val BLEND_DST_ALPHA: Int\n val BLEND_SRC_ALPHA: Int\n val CONSTANT_COLOR: Int\n val ONE_MINUS_CONSTANT_COLOR: Int\n val CONSTANT_ALPHA: Int\n val ONE_MINUS_CONSTANT_ALPHA: Int\n val BLEND_COLOR: Int\n val ARRAY_BUFFER: Int\n val ELEMENT_ARRAY_BUFFER: Int\n val ARRAY_BUFFER_BINDING: Int\n val ELEMENT_ARRAY_BUFFER_BINDING: Int\n val STREAM_DRAW: Int\n val STATIC_DRAW: Int\n val DYNAMIC_DRAW: Int\n val BUFFER_SIZE: Int\n val BUFFER_USAGE: Int\n val CURRENT_VERTEX_ATTRIB: Int\n val FRONT: Int\n val BACK: Int\n val FRONT_AND_BACK: Int\n val CULL_FACE: Int\n val BLEND: Int\n val DITHER: Int\n val STENCIL_TEST: Int\n val DEPTH_TEST: Int\n val SCISSOR_TEST: Int\n val POLYGON_OFFSET_FILL: Int\n val SAMPLE_ALPHA_TO_COVERAGE: Int\n val SAMPLE_COVERAGE: Int\n val NO_ERROR: Int\n val INVALID_ENUM: Int\n val INVALID_VALUE: Int\n val INVALID_OPERATION: Int\n val OUT_OF_MEMORY: Int\n val CW: Int\n val CCW: Int\n val LINE_WIDTH: Int\n val ALIASED_POINT_SIZE_RANGE: Int\n val ALIASED_LINE_WIDTH_RANGE: Int\n val CULL_FACE_MODE: Int\n val FRONT_FACE: Int\n val DEPTH_RANGE: Int\n val DEPTH_WRITEMASK: Int\n val DEPTH_CLEAR_VALUE: Int\n val DEPTH_FUNC: Int\n val STENCIL_CLEAR_VALUE: Int\n val STENCIL_FUNC: Int\n val STENCIL_FAIL: Int\n val STENCIL_PASS_DEPTH_FAIL: Int\n val STENCIL_PASS_DEPTH_PASS: Int\n val STENCIL_REF: Int\n val STENCIL_VALUE_MASK: Int\n val STENCIL_WRITEMASK: Int\n val STENCIL_BACK_FUNC: Int\n val STENCIL_BACK_FAIL: Int\n val STENCIL_BACK_PASS_DEPTH_FAIL: Int\n val STENCIL_BACK_PASS_DEPTH_PASS: Int\n val STENCIL_BACK_REF: Int\n val STENCIL_BACK_VALUE_MASK: Int\n val STENCIL_BACK_WRITEMASK: Int\n val VIEWPORT: Int\n val SCISSOR_BOX: Int\n val COLOR_CLEAR_VALUE: Int\n val COLOR_WRITEMASK: Int\n val UNPACK_ALIGNMENT: Int\n val PACK_ALIGNMENT: Int\n val MAX_TEXTURE_SIZE: Int\n val MAX_VIEWPORT_DIMS: Int\n val SUBPIXEL_BITS: Int\n val RED_BITS: Int\n val GREEN_BITS: Int\n val BLUE_BITS: Int\n val ALPHA_BITS: Int\n val DEPTH_BITS: Int\n val STENCIL_BITS: Int\n val POLYGON_OFFSET_UNITS: Int\n val POLYGON_OFFSET_FACTOR: Int\n val TEXTURE_BINDING_2D: Int\n val SAMPLE_BUFFERS: Int\n val SAMPLES: Int\n val SAMPLE_COVERAGE_VALUE: Int\n val SAMPLE_COVERAGE_INVERT: Int\n val COMPRESSED_TEXTURE_FORMATS: Int\n val DONT_CARE: Int\n val FASTEST: Int\n val NICEST: Int\n val GENERATE_MIPMAP_HINT: Int\n val BYTE: Int\n val UNSIGNED_BYTE: Int\n val SHORT: Int\n val UNSIGNED_SHORT: Int\n val INT: Int\n val UNSIGNED_INT: Int\n val FLOAT: Int\n val DEPTH_COMPONENT: Int\n val ALPHA: Int\n val RGB: Int\n val RGBA: Int\n val LUMINANCE: Int\n val LUMINANCE_ALPHA: Int\n val UNSIGNED_SHORT_4_4_4_4: Int\n val UNSIGNED_SHORT_5_5_5_1: Int\n val UNSIGNED_SHORT_5_6_5: Int\n val FRAGMENT_SHADER: Int\n val VERTEX_SHADER: Int\n val MAX_VERTEX_ATTRIBS: Int\n val MAX_VERTEX_UNIFORM_VECTORS: Int\n val MAX_VARYING_VECTORS: Int\n val MAX_COMBINED_TEXTURE_IMAGE_UNITS: Int\n val MAX_VERTEX_TEXTURE_IMAGE_UNITS: Int\n val MAX_TEXTURE_IMAGE_UNITS: Int\n val

MAX_FRAGMENT_UNIFORM_VECTORS: Int\n val SHADER_TYPE: Int\n val DELETE_STATUS: Int\n val LINK_STATUS:
Int\n val VALIDATE_STATUS: Int\n val ATTACHED_SHADERS: Int\n val ACTIVE_UNIFORMS: Int\n val ACTIVE_ATTRIBUTES: Int\n val SHADING_LANGUAGE_VERSION: Int\n val CURRENT_PROGRAM: Int\n val NEVER: Int\n val LESS: Int\n val EQUAL: Int\n val LEQUAL: Int\n val GREATER: Int\n val NOTEQUAL: Int\n val GEQUAL: Int\n val ALWAYS: Int\n val KEEP: Int\n val REPLACE: Int\n val INCR: Int\n val DECR: Int\n val INVERT: Int\n val INCR_WRAP: Int\n val DECR_WRAP: Int\n val VENDOR: Int\n val RENDERER: Int\n val VERSION: Int\n val NEAREST: Int\n val LINEAR: Int\n val NEAREST_MIPMAP_NEAREST: Int\n val LINEAR_MIPMAP_NEAREST: Int\n val NEAREST_MIPMAP_LINEAR: Int\n val LINEAR_MIPMAP_LINEAR: Int\n val TEXTURE_MAG_FILTER: Int\n val TEXTURE_MIN_FILTER: Int\n val TEXTURE_WRAP_S: Int\n val TEXTURE_WRAP_T: Int\n val TEXTURE_2D: Int\n val TEXTURE: Int\n val TEXTURE_CUBE_MAP: Int\n val TEXTURE_BINDING_CUBE_MAP: Int\n val TEXTURE_CUBE_MAP_POSITIVE_X: Int\n val TEXTURE_CUBE_MAP_NEGATIVE_X: Int\n val TEXTURE_CUBE_MAP_POSITIVE_Y: Int\n val TEXTURE_CUBE_MAP_NEGATIVE_Y: Int\n val TEXTURE_CUBE_MAP_POSITIVE_Z: Int\n val TEXTURE_CUBE_MAP_NEGATIVE_Z: Int\n val MAX_CUBE_MAP_TEXTURE_SIZE: Int\n val TEXTURE0: Int\n val TEXTURE1: Int\n val TEXTURE2: Int\n val TEXTURE3: Int\n val TEXTURE4: Int\n val TEXTURE5: Int\n val TEXTURE6: Int\n val TEXTURE7: Int\n val TEXTURE8: Int\n val TEXTURE9: Int\n val TEXTURE10: Int\n val TEXTURE11: Int\n val TEXTURE12: Int\n val TEXTURE13: Int\n val TEXTURE14: Int\n val TEXTURE15: Int\n val TEXTURE16: Int\n val TEXTURE17: Int\n val TEXTURE18:
Int\n val TEXTURE19: Int\n val TEXTURE20: Int\n val TEXTURE21: Int\n val TEXTURE22: Int\n val TEXTURE23: Int\n val TEXTURE24: Int\n val TEXTURE25: Int\n val TEXTURE26: Int\n val TEXTURE27: Int\n val TEXTURE28: Int\n val TEXTURE29: Int\n val TEXTURE30: Int\n val TEXTURE31: Int\n val ACTIVE_TEXTURE: Int\n val REPEAT: Int\n val CLAMP_TO_EDGE: Int\n val MIRRORED_REPEAT: Int\n val FLOAT_VEC2: Int\n val FLOAT_VEC3: Int\n val FLOAT_VEC4: Int\n val INT_VEC2: Int\n val INT_VEC3: Int\n val INT_VEC4: Int\n val BOOL: Int\n val BOOL_VEC2: Int\n val BOOL_VEC3: Int\n val BOOL_VEC4: Int\n val FLOAT_MAT2: Int\n val FLOAT_MAT3: Int\n val FLOAT_MAT4: Int\n val SAMPLER_2D: Int\n val SAMPLER_CUBE: Int\n val VERTEX_ATTRIB_ARRAY_ENABLED: Int\n val VERTEX_ATTRIB_ARRAY_SIZE:
Int\n val VERTEX_ATTRIB_ARRAY_STRIDE: Int\n val VERTEX_ATTRIB_ARRAY_TYPE: Int\n val VERTEX_ATTRIB_ARRAY_NORMALIZED: Int\n val VERTEX_ATTRIB_ARRAY_POINTER: Int\n val VERTEX_ATTRIB_ARRAY_BUFFER_BINDING: Int\n val IMPLEMENTATION_COLOR_READ_TYPE: Int\n val IMPLEMENTATION_COLOR_READ_FORMAT: Int\n val COMPILE_STATUS: Int\n val LOW_FLOAT: Int\n val MEDIUM_FLOAT: Int\n val HIGH_FLOAT: Int\n val LOW_INT: Int\n val MEDIUM_INT: Int\n val HIGH_INT: Int\n val FRAMEBUFFER: Int\n val RENDERBUFFER: Int\n val RGBA4: Int\n val RGB5_A1: Int\n val RGB565: Int\n val DEPTH_COMPONENT16: Int\n val STENCIL_INDEX: Int\n val STENCIL_INDEX8: Int\n val DEPTH_STENCIL: Int\n val RENDERBUFFER_WIDTH: Int\n val RENDERBUFFER_HEIGHT: Int\n val RENDERBUFFER_INTERNAL_FORMAT: Int\n val RENDERBUFFER_RED_SIZE: Int\n val RENDERBUFFER_GREEN_SIZE:
Int\n val RENDERBUFFER_BLUE_SIZE: Int\n val RENDERBUFFER_ALPHA_SIZE: Int\n val RENDERBUFFER_DEPTH_SIZE: Int\n val RENDERBUFFER_STENCIL_SIZE: Int\n val FRAMEBUFFER_ATTACHMENT_OBJECT_TYPE: Int\n val FRAMEBUFFER_ATTACHMENT_OBJECT_NAME: Int\n val

FRAMEBUFFER_ATTACHMENT_TEXTURE_LEVEL: Int\n val FRAMEBUFFER_ATTACHMENT_TEXTURE_CUBE_MAP_FACE: Int\n val COLOR_ATTACHMENT0: Int\n val DEPTH_ATTACHMENT: Int\n val STENCIL_ATTACHMENT: Int\n val DEPTH_STENCIL_ATTACHMENT: Int\n val NONE: Int\n val FRAMEBUFFER_COMPLETE: Int\n val FRAMEBUFFER_INCOMPLETE_ATTACHMENT: Int\n val FRAMEBUFFER_INCOMPLETE_MISSING_ATTACHMENT: Int\n val FRAMEBUFFER_INCOMPLETE_DIMENSIONS: Int\n val FRAMEBUFFER_UNSUPPORTED: Int\n val FRAMEBUFFER_BINDING: Int\n val RENDERBUFFER_BINDING: Int\n val MAX_RENDERBUFFER_SIZE: Int\n val INVALID_FRAMEBUFFER_OPERATION: Int\n val UNPACK_FLIP_Y_WEBGL: Int\n val UNPACK_PREMULTIPLY_ALPHA_WEBGL: Int\n val CONTEXT_LOST_WEBGL: Int\n val UNPACK_COLORSPACE_CONVERSION_WEBGL: Int\n val BROWSER_DEFAULT_WEBGL: Int\n }\n}\n\n/**\n * Exposes the JavaScript [WebGLRenderingContext](https://developer.mozilla.org/en/docs/Web/API/WebGLRenderingContext) to Kotlin\n */\npublic external abstract class WebGLRenderingContext : WebGLRenderingContextBase, RenderingContext {\n companion object {\n val DEPTH_BUFFER_BIT: Int\n val STENCIL_BUFFER_BIT: Int\n val COLOR_BUFFER_BIT: Int\n val POINTS: Int\n val LINES: Int\n val LINE_LOOP: Int\n val LINE_STRIP: Int\n val TRIANGLES: Int\n val TRIANGLE_STRIP: Int\n val TRIANGLE_FAN: Int\n val ZERO: Int\n val ONE: Int\n val SRC_COLOR: Int\n val ONE_MINUS_SRC_COLOR: Int\n val SRC_ALPHA: Int\n val ONE_MINUS_SRC_ALPHA: Int\n val DST_ALPHA: Int\n val ONE_MINUS_DST_ALPHA: Int\n val DST_COLOR: Int\n val ONE_MINUS_DST_COLOR: Int\n val SRC_ALPHA_SATURATE: Int\n val FUNC_ADD: Int\n val BLEND_EQUATION: Int\n val BLEND_EQUATION_RGB: Int\n val BLEND_EQUATION_ALPHA: Int\n val FUNC_SUBTRACT: Int\n val FUNC_REVERSE_SUBTRACT: Int\n val BLEND_DST_RGB: Int\n val BLEND_SRC_RGB: Int\n val BLEND_DST_ALPHA: Int\n val BLEND_SRC_ALPHA: Int\n val CONSTANT_COLOR: Int\n val ONE_MINUS_CONSTANT_COLOR: Int\n val CONSTANT_ALPHA: Int\n val ONE_MINUS_CONSTANT_ALPHA: Int\n val BLEND_COLOR: Int\n val ARRAY_BUFFER: Int\n val ELEMENT_ARRAY_BUFFER: Int\n val ARRAY_BUFFER_BINDING: Int\n val ELEMENT_ARRAY_BUFFER_BINDING: Int\n val STREAM_DRAW: Int\n val STATIC_DRAW: Int\n val DYNAMIC_DRAW: Int\n val BUFFER_SIZE: Int\n val BUFFER_USAGE: Int\n val CURRENT_VERTEX_ATTRIB: Int\n val FRONT: Int\n val BACK: Int\n val FRONT_AND_BACK: Int\n val CULL_FACE: Int\n val BLEND: Int\n val DITHER: Int\n val STENCIL_TEST: Int\n val DEPTH_TEST: Int\n val SCISSOR_TEST: Int\n val POLYGON_OFFSET_FILL: Int\n val SAMPLE_ALPHA_TO_COVERAGE: Int\n val SAMPLE_COVERAGE: Int\n val NO_ERROR: Int\n val INVALID_ENUM: Int\n val INVALID_VALUE: Int\n val INVALID_OPERATION: Int\n val OUT_OF_MEMORY: Int\n val CW: Int\n val CCW: Int\n val LINE_WIDTH: Int\n val ALIASED_POINT_SIZE_RANGE: Int\n val ALIASED_LINE_WIDTH_RANGE: Int\n val CULL_FACE_MODE: Int\n val FRONT_FACE: Int\n val DEPTH_RANGE: Int\n val DEPTH_WRITEMASK: Int\n val DEPTH_CLEAR_VALUE: Int\n val DEPTH_FUNC: Int\n val STENCIL_CLEAR_VALUE: Int\n val STENCIL_FUNC: Int\n val STENCIL_FAIL: Int\n val STENCIL_PASS_DEPTH_FAIL: Int\n val STENCIL_PASS_DEPTH_PASS: Int\n val STENCIL_REF: Int\n val STENCIL_VALUE_MASK: Int\n val STENCIL_WRITEMASK: Int\n val STENCIL_BACK_FUNC: Int\n val STENCIL_BACK_FAIL: Int\n val STENCIL_BACK_PASS_DEPTH_FAIL: Int\n val STENCIL_BACK_PASS_DEPTH_PASS: Int\n val STENCIL_BACK_REF: Int\n val STENCIL_BACK_VALUE_MASK: Int\n val STENCIL_BACK_WRITEMASK: Int\n val VIEWPORT: Int\n val SCISSOR_BOX: Int\n val COLOR_CLEAR_VALUE: Int\n val COLOR_WRITEMASK: Int\n val UNPACK_ALIGNMENT: Int\n val PACK_ALIGNMENT: Int\n val MAX_TEXTURE_SIZE: Int\n val MAX_VIEWPORT_DIMS: Int\n val SUBPIXEL_BITS: Int\n val

RED_BITS: Int\n val GREEN_BITS: Int\n val BLUE_BITS: Int\n val ALPHA_BITS: Int\n val DEPTH_BITS: Int\n val STENCIL_BITS: Int\n val POLYGON_OFFSET_UNITS: Int\n val POLYGON_OFFSET_FACTOR: Int\n
val TEXTURE_BINDING_2D: Int\n val SAMPLE_BUFFERS: Int\n val SAMPLES: Int\n val SAMPLE_COVERAGE_VALUE: Int\n val SAMPLE_COVERAGE_INVERT: Int\n val COMPRESSED_TEXTURE_FORMATS: Int\n val DONT_CARE: Int\n val FASTEST: Int\n val NICEST: Int\n val GENERATE_MIPMAP_HINT: Int\n val BYTE: Int\n val UNSIGNED_BYTE: Int\n val SHORT: Int\n val UNSIGNED_SHORT: Int\n val INT: Int\n val UNSIGNED_INT: Int\n
val FLOAT: Int\n val DEPTH_COMPONENT: Int\n val ALPHA: Int\n val RGB: Int\n val RGBA: Int\n val LUMINANCE: Int\n val LUMINANCE_ALPHA: Int\n val UNSIGNED_SHORT_4_4_4_4: Int\n val UNSIGNED_SHORT_5_5_5_1: Int\n val UNSIGNED_SHORT_5_6_5: Int\n val FRAGMENT_SHADER: Int\n val VERTEX_SHADER: Int\n val MAX_VERTEX_ATTRIBS: Int\n val MAX_VERTEX_UNIFORM_VECTORS: Int\n val MAX_VARYING_VECTORS: Int\n
val MAX_COMBINED_TEXTURE_IMAGE_UNITS: Int\n val MAX_VERTEX_TEXTURE_IMAGE_UNITS: Int\n val MAX_TEXTURE_IMAGE_UNITS: Int\n val MAX_FRAGMENT_UNIFORM_VECTORS: Int\n val SHADER_TYPE: Int\n val DELETE_STATUS: Int\n val LINK_STATUS: Int\n val VALIDATE_STATUS: Int\n val ATTACHED_SHADERS: Int\n
val ACTIVE_UNIFORMS: Int\n val ACTIVE_ATTRIBUTES: Int\n val SHADING_LANGUAGE_VERSION: Int\n val CURRENT_PROGRAM: Int\n val NEVER: Int\n val LESS: Int\n val EQUAL: Int\n val LEQUAL: Int\n val GREATER: Int\n val NOTEQUAL: Int\n
val GEQUAL: Int\n val ALWAYS: Int\n val KEEP: Int\n val REPLACE: Int\n val INCR: Int\n
val DECR: Int\n val INVERT: Int\n val INCR_WRAP: Int\n val DECR_WRAP: Int\n val VENDOR: Int\n val RENDERER: Int\n val VERSION: Int\n val NEAREST: Int\n val LINEAR: Int\n val NEAREST_MIPMAP_NEAREST: Int\n val LINEAR_MIPMAP_NEAREST: Int\n val NEAREST_MIPMAP_LINEAR: Int\n val LINEAR_MIPMAP_LINEAR: Int\n val TEXTURE_MAG_FILTER: Int\n val TEXTURE_MIN_FILTER: Int\n val TEXTURE_WRAP_S: Int\n
val TEXTURE_WRAP_T: Int\n val TEXTURE_2D: Int\n val TEXTURE: Int\n val TEXTURE_CUBE_MAP: Int\n val TEXTURE_BINDING_CUBE_MAP: Int\n val TEXTURE_CUBE_MAP_POSITIVE_X: Int\n val TEXTURE_CUBE_MAP_NEGATIVE_X: Int\n val TEXTURE_CUBE_MAP_POSITIVE_Y: Int\n val TEXTURE_CUBE_MAP_NEGATIVE_Y: Int\n val TEXTURE_CUBE_MAP_POSITIVE_Z: Int\n val TEXTURE_CUBE_MAP_NEGATIVE_Z: Int\n val MAX_CUBE_MAP_TEXTURE_SIZE: Int\n val TEXTURE0: Int\n val TEXTURE1: Int\n val TEXTURE2: Int\n val TEXTURE3: Int\n val TEXTURE4: Int\n val TEXTURE5: Int\n val TEXTURE6: Int\n val TEXTURE7: Int\n val TEXTURE8: Int\n
val TEXTURE9: Int\n val TEXTURE10: Int\n val TEXTURE11: Int\n val TEXTURE12: Int\n val TEXTURE13: Int\n val TEXTURE14: Int\n val TEXTURE15: Int\n val TEXTURE16: Int\n val TEXTURE17: Int\n val TEXTURE18: Int\n val TEXTURE19: Int\n val TEXTURE20: Int\n val TEXTURE21: Int\n val TEXTURE22: Int\n val TEXTURE23: Int\n val TEXTURE24: Int\n val TEXTURE25: Int\n val TEXTURE26: Int\n val TEXTURE27: Int\n val TEXTURE28: Int\n val TEXTURE29: Int\n val TEXTURE30: Int\n val TEXTURE31: Int\n val ACTIVE_TEXTURE: Int\n val REPEAT: Int\n val CLAMP_TO_EDGE: Int\n val MIRRORED_REPEAT: Int\n val FLOAT_VEC2: Int\n val FLOAT_VEC3: Int\n val FLOAT_VEC4: Int\n val INT_VEC2: Int\n val INT_VEC3: Int\n val INT_VEC4: Int\n val BOOL: Int\n val BOOL_VEC2: Int\n val BOOL_VEC3:
Int\n val BOOL_VEC4: Int\n val FLOAT_MAT2: Int\n val FLOAT_MAT3: Int\n val FLOAT_MAT4: Int\n val SAMPLER_2D: Int\n val SAMPLER_CUBE: Int\n val VERTEX_ATTRIB_ARRAY_ENABLED: Int\n val VERTEX_ATTRIB_ARRAY_SIZE: Int\n val

VERTEX_ATTRIB_ARRAY_STRIDE: Int\n val VERTEX_ATTRIB_ARRAY_TYPE: Int\n val VERTEX_ATTRIB_ARRAY_NORMALIZED: Int\n val VERTEX_ATTRIB_ARRAY_POINTER: Int\n val VERTEX_ATTRIB_ARRAY_BUFFER_BINDING: Int\n val IMPLEMENTATION_COLOR_READ_TYPE: Int\n val IMPLEMENTATION_COLOR_READ_FORMAT: Int\n val COMPILE_STATUS: Int\n val LOW_FLOAT: Int\n val MEDIUM_FLOAT: Int\n val HIGH_FLOAT: Int\n val LOW_INT: Int\n val MEDIUM_INT: Int\n val HIGH_INT: Int\n val FRAMEBUFFER: Int\n val RENDERBUFFER: Int\n val RGBA4: Int\n val RGB5_A1: Int\n val RGB565: Int\n val DEPTH_COMPONENT16: Int\n val STENCIL_INDEX: Int\n val STENCIL_INDEX8: Int\n val DEPTH_STENCIL: Int\n val RENDERBUFFER_WIDTH: Int\n val RENDERBUFFER_HEIGHT: Int\n val RENDERBUFFER_INTERNAL_FORMAT: Int\n val RENDERBUFFER_RED_SIZE: Int\n val RENDERBUFFER_GREEN_SIZE: Int\n val RENDERBUFFER_BLUE_SIZE: Int\n val RENDERBUFFER_ALPHA_SIZE: Int\n val RENDERBUFFER_DEPTH_SIZE: Int\n val RENDERBUFFER_STENCIL_SIZE: Int\n val FRAMEBUFFER_ATTACHMENT_OBJECT_TYPE: Int\n val FRAMEBUFFER_ATTACHMENT_OBJECT_NAME: Int\n val FRAMEBUFFER_ATTACHMENT_TEXTURE_LEVEL: Int\n val FRAMEBUFFER_ATTACHMENT_TEXTURE_CUBE_MAP_FACE: Int\n val COLOR_ATTACHMENT0: Int\n val DEPTH_ATTACHMENT: Int\n val STENCIL_ATTACHMENT: Int\n val DEPTH_STENCIL_ATTACHMENT: Int\n val NONE: Int\n val FRAMEBUFFER_COMPLETE: Int\n val FRAMEBUFFER_INCOMPLETE_ATTACHMENT: Int\n val FRAMEBUFFER_INCOMPLETE_MISSING_ATTACHMENT: Int\n val FRAMEBUFFER_INCOMPLETE_DIMENSIONS: Int\n val FRAMEBUFFER_UNSUPPORTED: Int\n val FRAMEBUFFER_BINDING: Int\n val RENDERBUFFER_BINDING: Int\n val MAX_RENDERBUFFER_SIZE: Int\n val INVALID_FRAMEBUFFER_OPERATION: Int\n val UNPACK_FLIP_Y_WEBGL: Int\n val UNPACK_PREMULTIPLY_ALPHA_WEBGL: Int\n val CONTEXT_LOST_WEBGL: Int\n val UNPACK_COLORSPACE_CONVERSION_WEBGL: Int\n val BROWSER_DEFAULT_WEBGL: Int\n }\n}\n\n/**\n * Exposes the JavaScript [WebGLContextEvent](https://developer.mozilla.org/en/docs/Web/API/WebGLContextEvent) to Kotlin\n */\npublic external open class WebGLContextEvent(type: String, eventInit: WebGLContextEventInit = definedExternally) : Event {\n open val statusMessage: String\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface WebGLContextEventInit : EventInit {\n var statusMessage: String? /* = \"\" */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun WebGLContextEventInit(statusMessage: String? = \"\", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): WebGLContextEventInit {\n val o = js(\"({})\")\n o[\"statusMessage\"] = statusMessage\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript [ArrayBuffer](https://developer.mozilla.org/en/docs/Web/API/ArrayBuffer) to Kotlin\n */\npublic external open class ArrayBuffer(length: Int) : BufferDataSource {\n open val byteLength: Int\n fun slice(begin: Int, end: Int = definedExternally): ArrayBuffer\n\n companion object {\n fun isView(value: Any?): Boolean\n }\n}\n\n/**\n * Exposes the JavaScript [ArrayBufferView](https://developer.mozilla.org/en/docs/Web/API/ArrayBufferView) to Kotlin\n */\npublic external interface ArrayBufferView : BufferDataSource {\n val buffer: ArrayBuffer\n val byteOffset: Int\n val byteLength: Int\n}\n\n/**\n * Exposes the JavaScript [Int8Array](https://developer.mozilla.org/en/docs/Web/API/Int8Array) to Kotlin\n */\npublic external open class

```
Int8Array : ArrayBufferView {\n    constructor(length: Int)\n    constructor(array: Int8Array)\n    constructor(array: Array<Byte>)\n    constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\n    open val length: Int\n    override val buffer: ArrayBuffer\n    override val byteOffset: Int\n    override val byteLength: Int\n    fun set(array: Int8Array, offset: Int = definedExternally)\n    fun set(array: Array<Byte>, offset: Int = definedExternally)\n    fun subarray(start: Int, end: Int): Int8Array\n\n    companion object {\n        val BYTES_PER_ELEMENT: Int\n    }\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Int8Array.get(index: Int): Byte = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Int8Array.set(index: Int, value: Byte) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript [Uint8Array](https://developer.mozilla.org/en/docs/Web/API/Uint8Array) to Kotlin\n */\npublic external open class Uint8Array : ArrayBufferView {\n    constructor(length: Int)\n    constructor(array: Uint8Array)\n    constructor(array: Array<Byte>)\n    constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\n    open val length: Int\n    override val buffer: ArrayBuffer\n    override val byteOffset: Int\n    override val byteLength: Int\n    fun set(array: Uint8Array, offset: Int = definedExternally)\n    fun set(array: Array<Byte>, offset: Int
 = definedExternally)\n    fun subarray(start: Int, end: Int): Uint8Array\n\n    companion object {\n        val BYTES_PER_ELEMENT: Int\n    }\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint8Array.get(index: Int): Byte = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint8Array.set(index: Int, value: Byte) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript [Uint8ClampedArray](https://developer.mozilla.org/en/docs/Web/API/Uint8ClampedArray) to Kotlin\n */\npublic external open class Uint8ClampedArray : ArrayBufferView {\n    constructor(length: Int)\n    constructor(array: Uint8ClampedArray)\n    constructor(array: Array<Byte>)\n    constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\n    open val length: Int\n    override val buffer: ArrayBuffer\n    override
 val byteOffset: Int\n    override val byteLength: Int\n    fun set(array: Uint8ClampedArray, offset: Int = definedExternally)\n    fun set(array: Array<Byte>, offset: Int = definedExternally)\n    fun subarray(start: Int, end: Int): Uint8ClampedArray\n\n    companion object {\n        val BYTES_PER_ELEMENT: Int\n    }\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint8ClampedArray.get(index: Int): Byte = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint8ClampedArray.set(index: Int, value: Byte) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript [Int16Array](https://developer.mozilla.org/en/docs/Web/API/Int16Array) to Kotlin\n */\npublic external open class Int16Array : ArrayBufferView {\n    constructor(length: Int)\n    constructor(array: Int16Array)\n    constructor(array: Array<Short>)\n    constructor(buffer:
 ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\n    open val length: Int\n    override val buffer: ArrayBuffer\n    override val byteOffset: Int\n    override val byteLength: Int\n    fun set(array: Int16Array, offset: Int = definedExternally)\n    fun set(array: Array<Short>, offset: Int = definedExternally)\n    fun subarray(start: Int, end: Int): Int16Array\n\n    companion object {\n        val BYTES_PER_ELEMENT: Int\n    }\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Int16Array.get(index: Int): Short = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Int16Array.set(index: Int, value: Short) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
```

[Uint16Array](https://developer.mozilla.org/en/docs/Web/API/Uint16Array) to Kotlin\n */\npublic external open class Uint16Array
: ArrayBufferView {\n constructor(length: Int)\n constructor(array: Uint16Array)\n constructor(array: Array<Short>)\n constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\n open val length: Int\n override val buffer: ArrayBuffer\n override val byteOffset: Int\n override val byteLength: Int\n fun set(array: Uint16Array, offset: Int = definedExternally)\n fun set(array: Array<Short>, offset: Int = definedExternally)\n fun subarray(start: Int, end: Int): Uint16Array\n\n companion object {\n val BYTES_PER_ELEMENT: Int\n }\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint16Array.get(index: Int): Short = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint16Array.set(index: Int, value: Short) { asDynamic()[index] = value }\n\n/**\n * Exposes
the JavaScript [Int32Array](https://developer.mozilla.org/en/docs/Web/API/Int32Array) to Kotlin\n */\npublic external open class Int32Array : ArrayBufferView {\n constructor(length: Int)\n constructor(array: Int32Array)\n constructor(array: Array<Int>)\n constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\n open val length: Int\n override val buffer: ArrayBuffer\n override val byteOffset: Int\n override val byteLength: Int\n fun set(array: Int32Array, offset: Int = definedExternally)\n fun set(array: Array<Int>, offset: Int = definedExternally)\n fun subarray(start: Int, end: Int): Int32Array\n\n companion object {\n val BYTES_PER_ELEMENT: Int\n }\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Int32Array.get(index: Int): Int = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic
inline operator fun Int32Array.set(index: Int, value: Int) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript [Uint32Array](https://developer.mozilla.org/en/docs/Web/API/Uint32Array) to Kotlin\n */\npublic external open class Uint32Array : ArrayBufferView {\n constructor(length: Int)\n constructor(array: Uint32Array)\n constructor(array: Array<Int>)\n constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\n open val length: Int\n override val buffer: ArrayBuffer\n override val byteOffset: Int\n override val byteLength: Int\n fun set(array: Uint32Array, offset: Int = definedExternally)\n fun set(array: Array<Int>, offset: Int = definedExternally)\n fun subarray(start: Int, end: Int): Uint32Array\n\n companion object {\n val BYTES_PER_ELEMENT: Int\n }\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline
operator fun Uint32Array.get(index: Int): Int = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint32Array.set(index: Int, value: Int) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript [Float32Array](https://developer.mozilla.org/en/docs/Web/API/Float32Array) to Kotlin\n */\npublic external open class Float32Array : ArrayBufferView {\n constructor(length: Int)\n constructor(array: Float32Array)\n constructor(array: Array<Float>)\n constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\n open val length: Int\n override val buffer: ArrayBuffer\n override val byteOffset: Int\n override val byteLength: Int\n fun set(array: Float32Array, offset: Int = definedExternally)\n fun set(array: Array<Float>, offset: Int = definedExternally)\n fun subarray(start: Int, end: Int): Float32Array\n\n companion object
{\n val BYTES_PER_ELEMENT: Int\n }\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Float32Array.get(index: Int): Float = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Float32Array.set(index: Int, value: Float) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript [Float64Array](https://developer.mozilla.org/en/docs/Web/API/Float64Array) to Kotlin\n */\npublic external open

class Float64Array : ArrayBufferView {\n    constructor(length: Int)\n    constructor(array: Float64Array)\n    constructor(array: Array<Double>)\n    constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\n    open val length: Int\n    override val buffer: ArrayBuffer\n    override val byteOffset: Int\n    override val byteLength: Int\n    fun set(array: Float64Array, offset: Int = definedExternally)\n    fun set(array: Array<Double>, offset: Int = definedExternally)\n    fun subarray(start: Int, end: Int): Float64Array\n\n    companion object {\n        val BYTES_PER_ELEMENT: Int\n    }\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Float64Array.get(index: Int): Double = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Float64Array.set(index: Int, value: Double) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript [DataView](https://developer.mozilla.org/en/docs/Web/API/DataView) to Kotlin\n */\npublic external open class DataView(buffer: ArrayBuffer, byteOffset: Int = definedExternally, byteLength: Int = definedExternally) : ArrayBufferView {\n    override val buffer: ArrayBuffer\n    override val byteOffset: Int\n    override val byteLength: Int\n    fun getInt8(byteOffset: Int): Byte\n    fun getUint8(byteOffset: Int): Byte\n    fun getInt16(byteOffset: Int, littleEndian: Boolean = definedExternally): Short\n    fun getUint16(byteOffset: Int, littleEndian: Boolean = definedExternally): Short\n    fun getInt32(byteOffset: Int, littleEndian: Boolean = definedExternally): Int\n    fun getUint32(byteOffset: Int, littleEndian: Boolean = definedExternally): Int\n    fun getFloat32(byteOffset: Int, littleEndian: Boolean = definedExternally): Float\n    fun getFloat64(byteOffset: Int, littleEndian: Boolean = definedExternally): Double\n    fun setInt8(byteOffset: Int, value: Byte)\n    fun setUint8(byteOffset: Int, value: Byte)\n    fun setInt16(byteOffset: Int, value: Short, littleEndian: Boolean = definedExternally)\n    fun setUint16(byteOffset: Int, value: Short, littleEndian: Boolean = definedExternally)\n    fun setInt32(byteOffset: Int, value: Int, littleEndian: Boolean = definedExternally)\n    fun setUint32(byteOffset: Int, value: Int, littleEndian: Boolean = definedExternally)\n    fun setFloat32(byteOffset: Int, value: Float, littleEndian: Boolean = definedExternally)\n    fun setFloat64(byteOffset: Int, value: Double, littleEndian: Boolean = definedExternally)\n}\n\npublic external interface BufferDataSource\n\npublic external interface TexImageSource","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.clipboard\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\n\npublic external interface ClipboardEventInit : EventInit {\n    var clipboardData: DataTransfer? /* = null */\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ClipboardEventInit(clipboardData: DataTransfer? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ClipboardEventInit {\n    val o = js(\"({})\")\n    o[\"clipboardData\"] = clipboardData\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return o\n}\n\n/**\n * Exposes the JavaScript [ClipboardEvent](https://developer.mozilla.org/en/docs/Web/API/ClipboardEvent) to Kotlin\n */\npublic external open class ClipboardEvent(type: String, eventInitDict: ClipboardEventInit = definedExternally) : Event {\n    open val clipboardData: DataTransfer?\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\n/**\n * Exposes the JavaScript [Clipboard](https://developer.mozilla.org/en/docs/Web/API/Clipboard) to Kotlin\n */\npublic external abstract class Clipboard : EventTarget {\n    fun read(): Promise<DataTransfer>\n    fun readText(): Promise<String>\n    fun write(data: DataTransfer): Promise<Unit>\n    fun writeText(data: String): Promise<Unit>\n}\n\npublic external interface ClipboardPermissionDescriptor {\n    var allowWithoutGesture: Boolean? /* = false */\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",

\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ClipboardPermissionDescriptor(allowWithoutGesture: Boolean? = false): ClipboardPermissionDescriptor {\n val o = js(\"({})\")\n o[\"allowWithoutGesture\"] = allowWithoutGesture\n return o\n}","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.css\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\n\npublic external abstract class MediaList : ItemArrayLike<String> {\n open var mediaText: String\n fun appendMedium(medium: String)\n fun deleteMedium(medium: String)\n override fun item(index: Int): String?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun MediaList.get(index: Int): String? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript [StyleSheet](https://developer.mozilla.org/en/docs/Web/API/StyleSheet) to Kotlin\n */\npublic external abstract class StyleSheet {\n open val type: String\n open val href: String?\n open val ownerNode: UnionElementOrProcessingInstruction?\n open val parentStyleSheet: StyleSheet?\n open val title: String?\n open val media: MediaList\n open var disabled: Boolean\n}\n\n/**\n * Exposes the JavaScript [CSSStyleSheet](https://developer.mozilla.org/en/docs/Web/API/CSSStyleSheet) to Kotlin\n */\npublic external abstract class CSSStyleSheet : StyleSheet {\n open val ownerRule: CSSRule?\n open val cssRules: CSSRuleList\n fun insertRule(rule: String, index: Int): Int\n fun deleteRule(index: Int)\n}\n\n/**\n * Exposes the JavaScript [StyleSheetList](https://developer.mozilla.org/en/docs/Web/API/StyleSheetList) to Kotlin\n */\npublic external abstract class StyleSheetList : ItemArrayLike<StyleSheet> {\n override fun item(index: Int): StyleSheet?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun StyleSheetList.get(index: Int): StyleSheet? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript [LinkStyle](https://developer.mozilla.org/en/docs/Web/API/LinkStyle) to Kotlin\n */\npublic external interface LinkStyle {\n val sheet: StyleSheet?\n get() = definedExternally\n}\n\n/**\n * Exposes the JavaScript [CSSRuleList](https://developer.mozilla.org/en/docs/Web/API/CSSRuleList) to Kotlin\n */\npublic external abstract class CSSRuleList : ItemArrayLike<CSSRule> {\n override fun item(index: Int): CSSRule?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun CSSRuleList.get(index: Int): CSSRule? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript [CSSRule](https://developer.mozilla.org/en/docs/Web/API/CSSRule) to Kotlin\n */\npublic external abstract class CSSRule {\n open val type: Short\n open var cssText: String\n open val parentRule: CSSRule?\n open val parentStyleSheet: CSSStyleSheet?\n\n companion object {\n val STYLE_RULE: Short\n val CHARSET_RULE: Short\n val IMPORT_RULE: Short\n val MEDIA_RULE: Short\n val FONT_FACE_RULE: Short\n val PAGE_RULE: Short\n val MARGIN_RULE: Short\n val NAMESPACE_RULE: Short\n }\n}\n\n/**\n * Exposes the JavaScript [CSSStyleRule](https://developer.mozilla.org/en/docs/Web/API/CSSStyleRule) to Kotlin\n */\npublic external abstract class CSSStyleRule : CSSRule {\n open var selectorText: String\n open val style: CSSStyleDeclaration\n\n companion object {\n val STYLE_RULE: Short\n val CHARSET_RULE: Short\n val IMPORT_RULE: Short\n val MEDIA_RULE: Short\n val FONT_FACE_RULE: Short\n val PAGE_RULE: Short\n val MARGIN_RULE: Short\n val NAMESPACE_RULE: Short\n }\n}\n\npublic external abstract class CSSImportRule : CSSRule {\n open val href: String\n open val media: MediaList\n open val styleSheet: CSSStyleSheet\n\n companion object {\n val STYLE_RULE: Short\n val CHARSET_RULE: Short\n val IMPORT_RULE: Short\n val MEDIA_RULE: Short\n val FONT_FACE_RULE: Short\n val PAGE_RULE: Short\n val MARGIN_RULE: Short\n val NAMESPACE_RULE: Short\n }\n}\n\n/**\n * Exposes the JavaScript

[CSSGroupingRule](https://developer.mozilla.org/en/docs/Web/API/CSSGroupingRule) to Kotlin\n */\npublic external abstract class CSSGroupingRule : CSSRule {\n open val cssRules: CSSRuleList\n fun insertRule(rule: String, index: Int): Int\n fun deleteRule(index: Int)\n\n companion object {\n val STYLE_RULE: Short\n val CHARSET_RULE: Short\n val IMPORT_RULE: Short\n val MEDIA_RULE: Short\n val FONT_FACE_RULE: Short\n val PAGE_RULE: Short\n val MARGIN_RULE: Short\n val NAMESPACE_RULE: Short\n }\n}\n\n/**\n * Exposes the JavaScript [CSSMediaRule](https://developer.mozilla.org/en/docs/Web/API/CSSMediaRule) to Kotlin\n */\npublic external abstract class CSSMediaRule : CSSGroupingRule {\n open val media: MediaList\n\n companion object {\n val STYLE_RULE: Short\n val CHARSET_RULE: Short\n val IMPORT_RULE: Short\n val MEDIA_RULE: Short\n val FONT_FACE_RULE: Short\n val PAGE_RULE: Short\n val MARGIN_RULE: Short\n val NAMESPACE_RULE: Short\n }\n}\n\n/**\n * Exposes the JavaScript [CSSPageRule](https://developer.mozilla.org/en/docs/Web/API/CSSPageRule) to Kotlin\n */\npublic external abstract class CSSPageRule : CSSGroupingRule {\n open var selectorText: String\n open val style: CSSStyleDeclaration\n\n companion object {\n val STYLE_RULE: Short\n val CHARSET_RULE: Short\n val IMPORT_RULE: Short\n val MEDIA_RULE: Short\n val FONT_FACE_RULE: Short\n val PAGE_RULE: Short\n val MARGIN_RULE: Short\n val NAMESPACE_RULE: Short\n }\n}\n\npublic external abstract class CSSMarginRule : CSSRule {\n open val name: String\n open val style: CSSStyleDeclaration\n\n companion object {\n val STYLE_RULE: Short\n val CHARSET_RULE: Short\n val IMPORT_RULE: Short\n val MEDIA_RULE: Short\n val FONT_FACE_RULE: Short\n val PAGE_RULE: Short\n val MARGIN_RULE: Short\n val NAMESPACE_RULE: Short\n }\n}\n\n/**\n * Exposes the JavaScript [CSSNamespaceRule](https://developer.mozilla.org/en/docs/Web/API/CSSNamespaceRule) to Kotlin\n */\npublic external abstract class CSSNamespaceRule : CSSRule {\n open val namespaceURI: String\n open val prefix: String\n\n companion object {\n val STYLE_RULE: Short\n val CHARSET_RULE: Short\n val IMPORT_RULE: Short\n val MEDIA_RULE: Short\n val FONT_FACE_RULE: Short\n val PAGE_RULE: Short\n val MARGIN_RULE: Short\n val NAMESPACE_RULE: Short\n }\n}\n\n/**\n * Exposes the JavaScript [CSSStyleDeclaration](https://developer.mozilla.org/en/docs/Web/API/CSSStyleDeclaration) to Kotlin\n */\npublic external abstract class CSSStyleDeclaration : ItemArrayLike<String> {\n open var cssText: String\n open val parentRule: CSSRule?\n open var cssFloat: String\n open var alignContent: String\n open var alignItems: String\n open var alignSelf: String\n open var animation: String\n open var animationDelay: String\n open var animationDirection: String\n open var animationDuration: String\n open var animationFillMode: String\n open var animationIterationCount: String\n open var animationName: String\n open var animationPlayState: String\n open var animationTimingFunction: String\n open var backfaceVisibility: String\n open var background: String\n open var backgroundAttachment: String\n open var backgroundClip: String\n open var backgroundColor: String\n open var backgroundImage: String\n open var backgroundOrigin: String\n open var backgroundPosition: String\n open var backgroundRepeat: String\n open var backgroundSize: String\n open var border: String\n open var borderBottom: String\n open var borderBottomColor: String\n open var borderBottomLeftRadius: String\n open var borderBottomRightRadius: String\n open var borderBottomStyle: String\n open var borderBottomWidth: String\n open var borderCollapse: String\n open var borderColor: String\n open var borderImage: String\n open var borderImageOutset: String\n open var borderImageRepeat: String\n open var borderImageSlice: String\n open var borderImageSource: String\n open var borderImageWidth: String\n open var borderLeft: String\n open var borderLeftColor: String\n open var borderLeftStyle: String\n open var borderLeftWidth: String\n open var borderRadius: String\n open var borderRight: String\n open var borderRightColor: String\n open var borderRightStyle: String\n open var borderRightWidth: String\n open var borderSpacing: String\n

open var borderStyle: String\n open var borderTop: String\n open var borderTopColor: String\n open var borderTopLeftRadius: String\n open var borderTopRightRadius: String\n open var borderTopStyle: String\n open var borderTopWidth: String\n open var borderWidth: String\n open var bottom: String\n open var boxDecorationBreak: String\n open var boxShadow: String\n open var boxSizing: String\n open var breakAfter: String\n open var breakBefore: String\n open var breakInside: String\n open var captionSide: String\n open var clear: String\n open var clip: String\n open var color: String\n open var columnCount: String\n open var columnFill: String\n open var columnGap: String\n open var columnRule: String\n open var columnRuleColor: String\n open var columnRuleStyle: String\n open var columnRuleWidth: String\n open var columnSpan: String\n open var columnWidth: String\n open var columns: String\n open var content: String\n open var counterIncrement: String\n open var counterReset: String\n open var cursor: String\n open var direction: String\n open var display: String\n open var emptyCells: String\n open var filter: String\n open var flex: String\n open var flexBasis: String\n open var flexDirection: String\n open var flexFlow: String\n open var flexGrow: String\n open var flexShrink: String\n open var flexWrap: String\n open var font: String\n open var fontFamily: String\n open var fontFeatureSettings: String\n open var fontKerning: String\n open var fontLanguageOverride: String\n open var fontSize: String\n open var fontSizeAdjust: String\n open var fontStretch: String\n open var fontStyle: String\n open var fontSynthesis: String\n open var fontVariant: String\n open var fontVariantAlternates: String\n open var fontVariantCaps: String\n open var fontVariantEastAsian: String\n open var fontVariantLigatures: String\n open var fontVariantNumeric: String\n open var fontVariantPosition: String\n open var fontWeight: String\n open var hangingPunctuation: String\n open var height: String\n open var hyphens: String\n open var imageOrientation: String\n open var imageRendering: String\n open var imageResolution: String\n open var imeMode: String\n open var justifyContent: String\n open var left: String\n open var letterSpacing: String\n open var lineBreak: String\n open var lineHeight: String\n open var listStyle: String\n open var listStyleImage: String\n open var listStylePosition: String\n open var listStyleType: String\n open var margin: String\n open var marginBottom: String\n open var marginLeft: String\n open var marginRight: String\n open var marginTop: String\n open var mark: String\n open var markAfter: String\n open var markBefore: String\n open var marks: String\n open var marqueeDirection: String\n open var marqueePlayCount: String\n open var marqueeSpeed: String\n open var marqueeStyle: String\n open var mask: String\n open var maskType: String\n open var maxHeight: String\n open var maxWidth: String\n open var minHeight: String\n open var minWidth: String\n open var navDown: String\n open var navIndex: String\n open var navLeft: String\n open var navRight: String\n open var navUp: String\n open var objectFit: String\n open var objectPosition: String\n open var opacity: String\n open var order: String\n open var orphans: String\n open var outline: String\n open var outlineColor: String\n open var outlineOffset: String\n open var outlineStyle: String\n open var outlineWidth: String\n open var overflowWrap: String\n open var overflowX: String\n open var overflowY: String\n open var padding: String\n open var paddingBottom: String\n open var paddingLeft: String\n open var paddingRight: String\n open var paddingTop: String\n open var pageBreakAfter: String\n open var pageBreakBefore: String\n open var pageBreakInside: String\n open var perspective: String\n open var perspectiveOrigin: String\n open var phonemes: String\n open var position: String\n open var quotes: String\n open var resize: String\n open var rest: String\n open var restAfter: String\n open var restBefore: String\n open var right: String\n open var tabSize: String\n open var tableLayout: String\n open var textAlign: String\n open var textAlignLast: String\n open var textCombineUpright: String\n open var textDecoration: String\n open var textDecorationColor: String\n open var textDecorationLine: String\n open var textDecorationStyle: String\n open var textIndent: String\n open var textJustify: String\n open var textOrientation: String\n open var textOverflow: String\n open var textShadow: String\n open var textTransform: String\n open var textUnderlinePosition: String\n open var top: String\n open var transform: String\n open var transformOrigin: String\n open var transformStyle: String\n open var transition: String\n open var transitionDelay: String\n open var transitionDuration: String\n open

var transitionProperty: String\n    open var transitionTimingFunction: String\n    open var unicodeBidi: String\n    open var verticalAlign: String\n    open var visibility: String\n    open var voiceBalance: String\n    open var voiceDuration: String\n    open var voicePitch: String\n    open var voicePitchRange: String\n    open var voiceRate: String\n    open var voiceStress: String\n    open var voiceVolume: String\n    open var whiteSpace: String\n    open var widows: String\n    open var width: String\n    open var wordBreak: String\n    open var wordSpacing: String\n    open var wordWrap: String\n    open var writingMode: String\n    open var zIndex: String\n    open var _dashed_attribute: String\n    open var _camel_cased_attribute: String\n    open var _webkit_cased_attribute: String\n    fun getPropertyValue(property: String): String\n    fun getPropertyPriority(property: String): String\n    fun setProperty(property: String, value: String, priority: String = definedExternally)\n    fun setPropertyValue(property: String, value: String)\n    fun setPropertyPriority(property: String, priority: String)\n    fun removeProperty(property: String): String\n    override fun item(index: Int): String\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun CSSStyleDeclaration.get(index: Int): String? = asDynamic()[index]\n\npublic external interface ElementCSSInlineStyle {\n    val style: CSSStyleDeclaration\n}\n\n/**\n * Exposes the JavaScript [CSS](https://developer.mozilla.org/en/docs/Web/API/CSS) to Kotlin\n */\npublic external abstract class CSS {\n    companion object {\n        fun escape(ident: String): String\n    }\n}\n\npublic external interface UnionElementOrProcessingInstruction","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n//
NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.encryptedmedia\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\n\n/**\n * Exposes the JavaScript [MediaKeySystemConfiguration](https://developer.mozilla.org/en/docs/Web/API/MediaKeySystemConfiguration) to Kotlin\n */\npublic external interface MediaKeySystemConfiguration {\n    var label: String? /* = \"\" */\n        get() = definedExternally\n        set(value) = definedExternally\n    var initDataTypes: Array<String>? /* = arrayOf() */\n        get() = definedExternally\n        set(value) = definedExternally\n    var audioCapabilities: Array<MediaKeySystemMediaCapability>? /* = arrayOf() */\n        get() = definedExternally\n        set(value) = definedExternally\n    var videoCapabilities: Array<MediaKeySystemMediaCapability>? /* = arrayOf() */\n        get() = definedExternally\n        set(value) = definedExternally\n    var distinctiveIdentifier: MediaKeysRequirement? /* = MediaKeysRequirement.OPTIONAL */\n        get() = definedExternally\n        set(value) = definedExternally\n    var persistentState: MediaKeysRequirement? /* = MediaKeysRequirement.OPTIONAL */\n        get() = definedExternally\n        set(value) = definedExternally\n    var sessionTypes: Array<String>?\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MediaKeySystemConfiguration(label: String? = \"\", initDataTypes: Array<String>? = arrayOf(), audioCapabilities: Array<MediaKeySystemMediaCapability>? = arrayOf(), videoCapabilities: Array<MediaKeySystemMediaCapability>? = arrayOf(), distinctiveIdentifier: MediaKeysRequirement? = MediaKeysRequirement.OPTIONAL, persistentState: MediaKeysRequirement? = MediaKeysRequirement.OPTIONAL, sessionTypes: Array<String>? = undefined): MediaKeySystemConfiguration {\n    val o = js(\"({})\")\n    o[\"label\"] = label\n    o[\"initDataTypes\"] = initDataTypes\n    o[\"audioCapabilities\"] = audioCapabilities\n    o[\"videoCapabilities\"] = videoCapabilities\n    o[\"distinctiveIdentifier\"] = distinctiveIdentifier\n    o[\"persistentState\"] = persistentState\n    o[\"sessionTypes\"] = sessionTypes\n    return o\n}\n\npublic external interface MediaKeySystemMediaCapability {\n    var contentType: String? /* = \"\" */\n        get() = definedExternally\n        set(value) = definedExternally\n    var robustness: String? /* = \"\" */\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",

\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MediaKeySystemMediaCapability(contentType: String? = \"\", robustness: String? = \"\"): MediaKeySystemMediaCapability {\n val o = js(\"({})\")\n o[\"contentType\"] = contentType\n o[\"robustness\"] = robustness\n return o\n}\n\n/**\n * Exposes the JavaScript [MediaKeySystemAccess](https://developer.mozilla.org/en/docs/Web/API/MediaKeySystemAccess) to Kotlin\n */\npublic external abstract class MediaKeySystemAccess {\n open val keySystem: String\n fun getConfiguration(): MediaKeySystemConfiguration\n fun createMediaKeys(): Promise<MediaKeys>\n}\n\n/**\n * Exposes the JavaScript [MediaKeys](https://developer.mozilla.org/en/docs/Web/API/MediaKeys) to Kotlin\n */\npublic external abstract class MediaKeys {\n fun createSession(sessionType: MediaKeySessionType = definedExternally): MediaKeySession\n fun setServerCertificate(serverCertificate: dynamic): Promise<Boolean>\n}\n\n/**\n * Exposes the JavaScript [MediaKeySession](https://developer.mozilla.org/en/docs/Web/API/MediaKeySession) to Kotlin\n */\npublic external abstract class MediaKeySession : EventTarget {\n open val sessionId: String\n open val expiration: Double\n open val closed: Promise<Unit>\n open val keyStatuses: MediaKeyStatusMap\n open var onkeystatuseschange: ((Event) -> dynamic)?\n open var onmessage: ((MessageEvent) -> dynamic)?\n fun generateRequest(initDataType: String, initData: dynamic): Promise<Unit>\n fun load(sessionId: String): Promise<Boolean>\n fun update(response: dynamic): Promise<Unit>\n fun close(): Promise<Unit>\n fun remove(): Promise<Unit>\n}\n\n/**\n * Exposes the JavaScript [MediaKeyStatusMap](https://developer.mozilla.org/en/docs/Web/API/MediaKeyStatusMap) to Kotlin\n */\npublic external abstract class MediaKeyStatusMap {\n open val size: Int\n fun has(keyId: dynamic): Boolean\n fun get(keyId: dynamic): Any?\n}\n\n/**\n * Exposes the JavaScript [MediaKeyMessageEvent](https://developer.mozilla.org/en/docs/Web/API/MediaKeyMessageEvent) to Kotlin\n */\npublic external open class MediaKeyMessageEvent(type: String, eventInitDict: MediaKeyMessageEventInit) : Event {\n open val messageType: MediaKeyMessageType\n open val message: ArrayBuffer\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface MediaKeyMessageEventInit : EventInit {\n var messageType: MediaKeyMessageType?\n var message: ArrayBuffer?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MediaKeyMessageEventInit(messageType: MediaKeyMessageType?, message: ArrayBuffer?, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): MediaKeyMessageEventInit {\n val o = js(\"({})\")\n o[\"messageType\"] = messageType\n o[\"message\"] = message\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\npublic external open class MediaEncryptedEvent(type: String, eventInitDict: MediaEncryptedEventInit = definedExternally) : Event {\n open val initDataType: String\n open val initData: ArrayBuffer?\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface MediaEncryptedEventInit : EventInit {\n var initDataType: String? /* = \"\" */\n get() = definedExternally\n set(value) = definedExternally\n var initData: ArrayBuffer? /* = null */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MediaEncryptedEventInit(initDataType: String? = \"\", initData: ArrayBuffer? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): MediaEncryptedEventInit {\n val o = js(\"({})\")\n o[\"initDataType\"] = initDataType\n o[\"initData\"] = initData\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external

interface MediaKeysRequirement {\n    companion object\n}\n\npublic inline val MediaKeysRequirement.Companion.REQUIRED: MediaKeysRequirement get() = \"required\".asDynamic().unsafeCast<MediaKeysRequirement>()\n\npublic inline val MediaKeysRequirement.Companion.OPTIONAL: MediaKeysRequirement get() = \"optional\".asDynamic().unsafeCast<MediaKeysRequirement>()\n\npublic inline val MediaKeysRequirement.Companion.NOT_ALLOWED: MediaKeysRequirement get() = \"not-allowed\".asDynamic().unsafeCast<MediaKeysRequirement>()\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface MediaKeySessionType {\n    companion object\n}\n\npublic inline val MediaKeySessionType.Companion.TEMPORARY: MediaKeySessionType get() = \"temporary\".asDynamic().unsafeCast<MediaKeySessionType>()\n\npublic inline val MediaKeySessionType.Companion.PERSISTENT_LICENSE: MediaKeySessionType get() = \"persistent-license\".asDynamic().unsafeCast<MediaKeySessionType>()\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface MediaKeyStatus {\n    companion object\n}\n\npublic inline val MediaKeyStatus.Companion.USABLE: MediaKeyStatus get() = \"usable\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val MediaKeyStatus.Companion.EXPIRED: MediaKeyStatus get() = \"expired\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val MediaKeyStatus.Companion.RELEASED: MediaKeyStatus get() = \"released\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val MediaKeyStatus.Companion.OUTPUT_RESTRICTED: MediaKeyStatus get() = \"output-restricted\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val MediaKeyStatus.Companion.OUTPUT_DOWNSCALED: MediaKeyStatus get() = \"output-downscaled\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val MediaKeyStatus.Companion.STATUS_PENDING: MediaKeyStatus get() = \"status-pending\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val MediaKeyStatus.Companion.INTERNAL_ERROR: MediaKeyStatus get() = \"internal-error\".asDynamic().unsafeCast<MediaKeyStatus>()\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface MediaKeyMessageType {\n    companion object\n}\n\npublic inline val MediaKeyMessageType.Companion.LICENSE_REQUEST: MediaKeyMessageType get() = \"license-request\".asDynamic().unsafeCast<MediaKeyMessageType>()\n\npublic inline val MediaKeyMessageType.Companion.LICENSE_RENEWAL: MediaKeyMessageType get() = \"license-renewal\".asDynamic().unsafeCast<MediaKeyMessageType>()\n\npublic inline val MediaKeyMessageType.Companion.LICENSE_RELEASE: MediaKeyMessageType get() = \"license-release\".asDynamic().unsafeCast<MediaKeyMessageType>()\n\npublic inline val MediaKeyMessageType.Companion.INDIVIDUALIZATION_REQUEST: MediaKeyMessageType get() = \"individualization-request\".asDynamic().unsafeCast<MediaKeyMessageType>()","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.events\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\n\n/**\n * Exposes the JavaScript [UIEvent](https://developer.mozilla.org/en/docs/Web/API/UIEvent) to Kotlin\n */\npublic external open class UIEvent(type: String, eventInitDict: UIEventInit = definedExternally) : Event {\n    open val view: Window?\n    open val detail: Int\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n

```
        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface
UIEventInit : EventInit {\n    var view: Window? /* = null */\n        get() = definedExternally\n        set(value) =
definedExternally\n    var detail: Int? /* = 0 */\n        get() = definedExternally\n        set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun UIEventInit(view: Window? = null,
detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): UIEventInit
{\n    val o = js(\"({})\")\n    o[\"view\"] = view\n    o[\"detail\"] = detail\n    o[\"bubbles\"] = bubbles\n
o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return o\n}\n\n/**\n * Exposes the JavaScript
[FocusEvent](https://developer.mozilla.org/en/docs/Web/API/FocusEvent) to Kotlin\n */\npublic external open class
FocusEvent(type: String, eventInitDict: FocusEventInit
 = definedExternally) : UIEvent {\n    open val relatedTarget: EventTarget?\n\n    companion object {\n        val
NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val
BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface FocusEventInit : UIEventInit {\n    var
relatedTarget: EventTarget? /* = null */\n        get() = definedExternally\n        set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun FocusEventInit(relatedTarget:
EventTarget? = null, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? =
false, composed: Boolean? = false): FocusEventInit {\n    val o = js(\"({})\")\n    o[\"relatedTarget\"] =
relatedTarget\n    o[\"view\"] = view\n    o[\"detail\"] = detail\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] =
cancelable\n    o[\"composed\"] = composed\n    return o\n}\n\n/**\n * Exposes the JavaScript
 [MouseEvent](https://developer.mozilla.org/en/docs/Web/API/MouseEvent) to Kotlin\n */\npublic external open
class MouseEvent(type: String, eventInitDict: MouseEventInit = definedExternally) : UIEvent,
UnionElementOrMouseEvent {\n    open val screenX: Int\n    open val screenY: Int\n    open val clientX: Int\n
open val clientY: Int\n    open val ctrlKey: Boolean\n    open val shiftKey: Boolean\n    open val altKey: Boolean\n
open val metaKey: Boolean\n    open val button: Short\n    open val buttons: Short\n    open val relatedTarget:
EventTarget?\n    open val region: String?\n    open val pageX: Double\n    open val pageY: Double\n    open val x:
Double\n    open val y: Double\n    open val offsetX: Double\n    open val offsetY: Double\n    fun
getModifierState(keyArg: String): Boolean\n\n    companion object {\n        val NONE: Short\n        val
CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n
}\n}\n\npublic external interface MouseEventInit
 : EventModifierInit {\n    var screenX: Int? /* = 0 */\n        get() = definedExternally\n        set(value) =
definedExternally\n    var screenY: Int? /* = 0 */\n        get() = definedExternally\n        set(value) =
definedExternally\n    var clientX: Int? /* = 0 */\n        get() = definedExternally\n        set(value) =
definedExternally\n    var clientY: Int? /* = 0 */\n        get() = definedExternally\n        set(value) =
definedExternally\n    var button: Short? /* = 0 */\n        get() = definedExternally\n        set(value) =
definedExternally\n    var buttons: Short? /* = 0 */\n        get() = definedExternally\n        set(value) =
definedExternally\n    var relatedTarget: EventTarget? /* = null */\n        get() = definedExternally\n        set(value)
= definedExternally\n    var region: String? /* = null */\n        get() = definedExternally\n        set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic
 inline fun MouseEventInit(screenX: Int? = 0, screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? =
0, buttons: Short? = 0, relatedTarget: EventTarget? = null, region: String? = null, ctrlKey: Boolean? = false,
shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? =
false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false,
modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false,
modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view:
Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): MouseEventInit {\n    val o = js(\"({})\")\n    o[\"screenX\"] = screenX\n    o[\"screenY\"] = screenY\n
```

```
o[\"clientX\"] = clientX\n    o[\"clientY\"] = clientY\n    o[\"button\"] = button\n
    o[\"buttons\"] = buttons\n    o[\"relatedTarget\"] = relatedTarget\n    o[\"region\"] = region\n    o[\"ctrlKey\"] =
ctrlKey\n    o[\"shiftKey\"] = shiftKey\n    o[\"altKey\"] = altKey\n    o[\"metaKey\"] = metaKey\n
o[\"modifierAltGraph\"] = modifierAltGraph\n    o[\"modifierCapsLock\"] = modifierCapsLock\n
o[\"modifierFn\"] = modifierFn\n    o[\"modifierFnLock\"] = modifierFnLock\n    o[\"modifierHyper\"] =
modifierHyper\n    o[\"modifierNumLock\"] = modifierNumLock\n    o[\"modifierScrollLock\"] =
modifierScrollLock\n    o[\"modifierSuper\"] = modifierSuper\n    o[\"modifierSymbol\"] = modifierSymbol\n
o[\"modifierSymbolLock\"] = modifierSymbolLock\n    o[\"view\"] = view\n    o[\"detail\"] = detail\n
o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return
o\n}\n\npublic external interface EventModifierInit : UIEventInit {\n    var ctrlKey: Boolean? /* = false */\n
get() = definedExternally\n        set(value)
 = definedExternally\n    var shiftKey: Boolean? /* = false */\n        get() = definedExternally\n        set(value) =
definedExternally\n    var altKey: Boolean? /* = false */\n        get() = definedExternally\n        set(value) =
definedExternally\n    var metaKey: Boolean? /* = false */\n        get() = definedExternally\n        set(value) =
definedExternally\n    var modifierAltGraph: Boolean? /* = false */\n        get() = definedExternally\n        set(value)
= definedExternally\n    var modifierCapsLock: Boolean? /* = false */\n        get() = definedExternally\n
set(value) = definedExternally\n    var modifierFn: Boolean? /* = false */\n        get() = definedExternally\n
set(value) = definedExternally\n    var modifierFnLock: Boolean? /* = false */\n        get() = definedExternally\n
set(value) = definedExternally\n    var modifierHyper: Boolean? /* = false */\n        get() = definedExternally\n
set(value) = definedExternally\n    var modifierNumLock:
 Boolean? /* = false */\n        get() = definedExternally\n        set(value) = definedExternally\n    var
modifierScrollLock: Boolean? /* = false */\n        get() = definedExternally\n        set(value) = definedExternally\n
var modifierSuper: Boolean? /* = false */\n        get() = definedExternally\n        set(value) = definedExternally\n
var modifierSymbol: Boolean? /* = false */\n        get() = definedExternally\n        set(value) = definedExternally\n
var modifierSymbolLock: Boolean? /* = false */\n        get() = definedExternally\n        set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun EventModifierInit(ctrlKey: Boolean? =
false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph:
Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? =
false, modifierHyper: Boolean?
 = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? =
false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail:
Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): EventModifierInit
{\n    val o = js(\"({})\")\n    o[\"ctrlKey\"] = ctrlKey\n    o[\"shiftKey\"] = shiftKey\n    o[\"altKey\"] = altKey\n
o[\"metaKey\"] = metaKey\n    o[\"modifierAltGraph\"] = modifierAltGraph\n    o[\"modifierCapsLock\"] =
modifierCapsLock\n    o[\"modifierFn\"] = modifierFn\n    o[\"modifierFnLock\"] = modifierFnLock\n
o[\"modifierHyper\"] = modifierHyper\n    o[\"modifierNumLock\"] = modifierNumLock\n
o[\"modifierScrollLock\"] = modifierScrollLock\n    o[\"modifierSuper\"] = modifierSuper\n
o[\"modifierSymbol\"] = modifierSymbol\n    o[\"modifierSymbolLock\"] = modifierSymbolLock\n    o[\"view\"] =
view\n    o[\"detail\"] = detail\n    o[\"bubbles\"]
 = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return o\n}\n\n/**\n * Exposes
the JavaScript [WheelEvent](https://developer.mozilla.org/en/docs/Web/API/WheelEvent) to Kotlin\n */\npublic
external open class WheelEvent(type: String, eventInitDict: WheelEventInit = definedExternally) : MouseEvent {\n
 open val deltaX: Double\n    open val deltaY: Double\n    open val deltaZ: Double\n    open val deltaMode: Int\n\n
companion object {\n        val DOM_DELTA_PIXEL: Int\n        val DOM_DELTA_LINE: Int\n        val
DOM_DELTA_PAGE: Int\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val
AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface WheelEventInit :
MouseEventInit {\n    var deltaX: Double? /* = 0.0 */\n        get() = definedExternally\n        set(value) =
```

definedExternally\n    var deltaY: Double? /* = 0.0 */\n        get() = definedExternally\n        set(value) = definedExternally\n
    var deltaZ: Double? /* = 0.0 */\n        get() = definedExternally\n        set(value) = definedExternally\n    var deltaMode: Int? /* = 0 */\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun WheelEventInit(deltaX: Double? = 0.0, deltaY: Double? = 0.0, deltaZ: Double? = 0.0, deltaMode: Int? = 0, screenX: Int? = 0, screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget: EventTarget? = null, region: String? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false,
 modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): WheelEventInit {\n    val o = js(\"({})\")\n    o[\"deltaX\"] = deltaX\n    o[\"deltaY\"] = deltaY\n    o[\"deltaZ\"] = deltaZ\n    o[\"deltaMode\"] = deltaMode\n    o[\"screenX\"] = screenX\n    o[\"screenY\"] = screenY\n    o[\"clientX\"] = clientX\n    o[\"clientY\"] = clientY\n    o[\"button\"] = button\n    o[\"buttons\"] = buttons\n    o[\"relatedTarget\"] = relatedTarget\n    o[\"region\"] = region\n    o[\"ctrlKey\"] = ctrlKey\n    o[\"shiftKey\"] = shiftKey\n    o[\"altKey\"] = altKey\n    o[\"metaKey\"] = metaKey\n    o[\"modifierAltGraph\"] = modifierAltGraph\n    o[\"modifierCapsLock\"] = modifierCapsLock\n    o[\"modifierFn\"] = modifierFn\n    o[\"modifierFnLock\"] = modifierFnLock\n    o[\"modifierHyper\"] = modifierHyper\n    o[\"modifierNumLock\"] = modifierNumLock\n
 o[\"modifierScrollLock\"] = modifierScrollLock\n    o[\"modifierSuper\"] = modifierSuper\n    o[\"modifierSymbol\"] = modifierSymbol\n    o[\"modifierSymbolLock\"] = modifierSymbolLock\n    o[\"view\"] = view\n    o[\"detail\"] = detail\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return o\n}\n\n/**\n * Exposes the JavaScript [InputEvent](https://developer.mozilla.org/en/docs/Web/API/InputEvent) to Kotlin\n */\npublic external open class InputEvent(type: String, eventInitDict: InputEventInit = definedExternally) : UIEvent {\n    open val data: String\n    open val isComposing: Boolean\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface InputEventInit : UIEventInit {\n    var data: String? /* = \"\" */\n        get() = definedExternally\n        set(value) = definedExternally\n    var isComposing:
 Boolean? /* = false */\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun InputEventInit(data: String? = \"\", isComposing: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): InputEventInit {\n    val o = js(\"({})\")\n    o[\"data\"] = data\n    o[\"isComposing\"] = isComposing\n    o[\"view\"] = view\n    o[\"detail\"] = detail\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return o\n}\n\n/**\n * Exposes the JavaScript [KeyboardEvent](https://developer.mozilla.org/en/docs/Web/API/KeyboardEvent) to Kotlin\n */\npublic external open class KeyboardEvent(type: String, eventInitDict: KeyboardEventInit = definedExternally) : UIEvent {\n    open val key: String\n    open val code: String\n    open val location:
 Int\n    open val ctrlKey: Boolean\n    open val shiftKey: Boolean\n    open val altKey: Boolean\n    open val metaKey: Boolean\n    open val repeat: Boolean\n    open val isComposing: Boolean\n    open val charCode: Int\n    open val keyCode: Int\n    open val which: Int\n    fun getModifierState(keyArg: String): Boolean\n\n    companion object {\n        val DOM_KEY_LOCATION_STANDARD: Int\n        val DOM_KEY_LOCATION_LEFT: Int\n
 val DOM_KEY_LOCATION_RIGHT: Int\n        val DOM_KEY_LOCATION_NUMPAD: Int\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface KeyboardEventInit : EventModifierInit {\n    var key: String? /* = \"\"

```
*/\n        get() = definedExternally\n        set(value) = definedExternally\n    var code: String? /* = \"\" */\n        get() = definedExternally\n        set(value) = definedExternally\n    var location: Int? /* = 0 */\n        get() = definedExternally\n
        set(value) = definedExternally\n    var repeat: Boolean? /* = false */\n        get() = definedExternally\n    set(value) = definedExternally\n    var isComposing: Boolean? /* = false */\n        get() = definedExternally\n    set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun KeyboardEventInit(key: String? = \"\", code: String? = \"\", location: Int? = 0, repeat: Boolean? = false, isComposing: Boolean? = false, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): KeyboardEventInit {\n    val o = js(\"({})\")\n    o[\"key\"] = key\n    o[\"code\"] = code\n    o[\"location\"] = location\n    o[\"repeat\"] = repeat\n    o[\"isComposing\"] = isComposing\n    o[\"ctrlKey\"] = ctrlKey\n    o[\"shiftKey\"] = shiftKey\n    o[\"altKey\"] = altKey\n    o[\"metaKey\"] = metaKey\n    o[\"modifierAltGraph\"] = modifierAltGraph\n    o[\"modifierCapsLock\"] = modifierCapsLock\n    o[\"modifierFn\"] = modifierFn\n    o[\"modifierFnLock\"] = modifierFnLock\n    o[\"modifierHyper\"] = modifierHyper\n    o[\"modifierNumLock\"] = modifierNumLock\n    o[\"modifierScrollLock\"] = modifierScrollLock\n    o[\"modifierSuper\"] = modifierSuper\n    o[\"modifierSymbol\"] = modifierSymbol\n    o[\"modifierSymbolLock\"] = modifierSymbolLock\n    o[\"view\"] = view\n    o[\"detail\"] = detail\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return o\n}\n\n/**\n * Exposes the JavaScript [CompositionEvent](https://developer.mozilla.org/en/docs/Web/API/CompositionEvent) to Kotlin\n */\npublic external open class CompositionEvent(type: String, eventInitDict: CompositionEventInit = definedExternally) : UIEvent {\n    open val data: String\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface CompositionEventInit : UIEventInit {\n    var data: String? /* = \"\" */\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun CompositionEventInit(data: String? = \"\", view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): CompositionEventInit {\n    val o = js(\"({})\")\n
    o[\"data\"] = data\n    o[\"view\"] = view\n    o[\"detail\"] = detail\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return o\n}\n\n/**\n * Exposes the JavaScript [Event](https://developer.mozilla.org/en/docs/Web/API/Event) to Kotlin\n */\npublic external open class Event(type: String, eventInitDict: EventInit = definedExternally) {\n    open val type: String\n    open val target: EventTarget?\n    open val currentTarget: EventTarget?\n    open val eventPhase: Short\n    open val bubbles: Boolean\n    open val cancelable: Boolean\n    open val defaultPrevented: Boolean\n    open val composed: Boolean\n    open val isTrusted: Boolean\n    open val timeStamp: Number\n    fun composedPath(): Array<EventTarget>\n    fun stopPropagation()\n    fun stopImmediatePropagation()\n    fun preventDefault()\n    fun initEvent(type: String, bubbles: Boolean, cancelable: Boolean)\n\n    companion object {\n        val NONE: Short\n
        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\n/**\n * Exposes the JavaScript [EventTarget](https://developer.mozilla.org/en/docs/Web/API/EventTarget) to Kotlin\n */\npublic external abstract class EventTarget {\n    fun addEventListener(type: String, callback: EventListener?, options: dynamic = definedExternally)\n    fun addEventListener(type: String, callback: ((Event) -> Unit)?, options: dynamic = definedExternally)\n    fun removeEventListener(type: String, callback: EventListener?, options: dynamic = definedExternally)\n    fun removeEventListener(type: String, callback: ((Event) -> Unit)?, options: dynamic = definedExternally)\n    fun dispatchEvent(event: Event): Boolean\n}\n\n/**\n * Exposes the
```

JavaScript [EventListener](https://developer.mozilla.org/en/docs/Web/API/EventListener) to Kotlin\n */\npublic external interface EventListener {\n fun handleEvent(event: Event)\n}","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.encryptedmedia.*\nimport org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport org.w3c.dom.mediasource.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\npublic external abstract class HTMLAllCollection {\n open val length: Int\n fun item(nameOrIndex: String = definedExternally): UnionElementOrHTMLCollection?\n fun namedItem(name: String): UnionElementOrHTMLCollection?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLAllCollection.get(index: Int): Element? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLAllCollection.get(name: String): UnionElementOrHTMLCollection? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript [HTMLFormControlsCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLFormControlsCollection) to Kotlin\n */\npublic external abstract class HTMLFormControlsCollection : HTMLCollection\n\n/**\n * Exposes the JavaScript [RadioNodeList](https://developer.mozilla.org/en/docs/Web/API/RadioNodeList) to Kotlin\n */\npublic external abstract class RadioNodeList : NodeList, UnionElementOrRadioNodeList {\n open var value: String\n}\n\n/**\n * Exposes the JavaScript [HTMLOptionsCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLOptionsCollection) to Kotlin\n */\npublic external abstract class HTMLOptionsCollection : HTMLCollection {\n override var length: Int\n open var selectedIndex: Int\n fun add(element: UnionHTMLOptGroupElementOrHTMLOptionElement, before: dynamic = definedExternally)\n fun remove(index: Int)\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLOptionsCollection.set(index: Int, option: HTMLOptionElement?) { asDynamic()[index] = option }\n\n/**\n * Exposes the JavaScript [HTMLElement](https://developer.mozilla.org/en/docs/Web/API/HTMLElement) to Kotlin\n */\npublic external abstract class HTMLElement : Element, GlobalEventHandlers, DocumentAndElementEventHandlers, ElementContentEditable, ElementCSSInlineStyle {\n open var title: String\n open var lang: String\n open var translate: Boolean\n open var dir: String\n open val dataset: DOMStringMap\n open var hidden: Boolean\n open var tabIndex: Int\n open var accessKey: String\n open val accessKeyLabel: String\n open var draggable: Boolean\n open val dropzone: DOMTokenList\n open var contextMenu: HTMLMenuElement?\n open var spellcheck: Boolean\n open var innerText: String\n open val offsetParent: Element?\n open val offsetTop: Int\n open val offsetLeft: Int\n open val offsetWidth: Int\n open val offsetHeight: Int\n fun click()\n fun focus()\n fun blur()\n fun forceSpellCheck()\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val

DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLUnknownElement](https://developer.mozilla.org/en/docs/Web/API/HTMLUnknownElement) to Kotlin\n */\npublic external abstract class HTMLUnknownElement : HTMLElement {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [DOMStringMap](https://developer.mozilla.org/en/docs/Web/API/DOMStringMap) to Kotlin\n */\npublic external abstract class DOMStringMap\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun DOMStringMap.get(name: String): String? = asDynamic()[name]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun DOMStringMap.set(name: String, value: String) { asDynamic()[name] = value }\n\n/**\n * Exposes the JavaScript [HTMLHtmlElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHtmlElement) to Kotlin\n */\npublic external abstract class HTMLHtmlElement : HTMLElement {\n open var version: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLHeadElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadElement) to Kotlin\n */\npublic external abstract class HTMLHeadElement : HTMLElement {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLTitleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTitleElement) to Kotlin\n */\npublic external abstract class HTMLTitleElement : HTMLElement {\n open var text: String\n\n companion object {\n val ELEMENT_NODE: Short\n

val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLBaseElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBaseElement) to Kotlin\n */\npublic external abstract class HTMLBaseElement : HTMLElement {\n open var href: String\n open var target: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLLinkElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLinkElement) to Kotlin\n */\npublic external abstract class HTMLLinkElement : HTMLElement, LinkStyle {\n open var href: String\n open var crossOrigin: String?\n open var rel: String\n open var `as`: RequestDestination\n open val relList: DOMTokenList\n open var media: String\n open var nonce: String\n open var hreflang: String\n open var type: String\n open val sizes: DOMTokenList\n open var referrerPolicy: String\n open var charset: String\n open var rev: String\n open var target: String\n open var scope: String\n open var workerType: WorkerType\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLMetaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMetaElement) to Kotlin\n */\npublic external abstract class HTMLMetaElement : HTMLElement {\n open var name: String\n open var httpEquiv: String\n open var content: String\n open var scheme: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY:

Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLStyleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLStyleElement) to Kotlin\n */\npublic external abstract class HTMLStyleElement : HTMLElement, LinkStyle {\n open var media: String\n open var nonce: String\n open var type: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLBodyElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBodyElement) to Kotlin\n */\npublic external abstract class HTMLBodyElement : HTMLElement, WindowEventHandlers {\n open var text: String\n open var link: String\n open var vLink: String\n open var aLink: String\n open var bgColor: String\n open var background: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLHeadingElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadingElement) to Kotlin\n */\npublic external abstract class HTMLHeadingElement : HTMLElement {\n open var align: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLParagraphElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParagraphElement) to Kotlin\n */\npublic external abstract class HTMLParagraphElement : HTMLElement {\n open var align: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n

val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLHRElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHRElement) to Kotlin\n */\npublic external abstract class HTMLHRElement : HTMLElement {\n open var align: String\n open var color: String\n open var noShade: Boolean\n open var size: String\n open var width: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLPreElement](https://developer.mozilla.org/en/docs/Web/API/HTMLPreElement) to Kotlin\n */\npublic external abstract class HTMLPreElement : HTMLElement {\n open var width: Int\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLQuoteElement](https://developer.mozilla.org/en/docs/Web/API/HTMLQuoteElement) to Kotlin\n */\npublic external abstract class HTMLQuoteElement : HTMLElement {\n open var cite: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLOListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOListElement) to Kotlin\n */\npublic external abstract class HTMLOListElement : HTMLElement {\n open var reversed: Boolean\n open var start: Int\n open var type: String\n open var compact: Boolean\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript

[HTMLUListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLUListElement) to Kotlin\n */\npublic external
abstract class HTMLUListElement : HTMLElement {\n open var compact: Boolean\n open var type: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLLIElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLIElement)
to Kotlin\n */\npublic external abstract class HTMLLIElement : HTMLElement {\n open var value: Int\n open var type: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLDListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDListElement)
to Kotlin\n */\npublic external abstract class HTMLDListElement : HTMLElement {\n open var compact: Boolean\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLDivElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDivElement)
to Kotlin\n */\npublic external abstract class HTMLDivElement : HTMLElement {\n open var align: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLAnchorElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAnchorElement)

to Kotlin\n */\npublic external abstract class HTMLAnchorElement : HTMLElement, HTMLHyperlinkElementUtils {\n open var target: String\n open var download: String\n open var ping: String\n open var rel: String\n open val relList: DOMTokenList\n open var hreflang: String\n open var type: String\n open var text: String\n open var referrerPolicy: String\n open var coords: String\n open var charset: String\n open var name: String\n open var rev: String\n open var shape: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLDataElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDataElement) to Kotlin\n */\npublic external abstract class HTMLDataElement : HTMLElement {\n open var value: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLTimeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTimeElement) to Kotlin\n */\npublic external abstract class HTMLTimeElement : HTMLElement {\n open var dateTime: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLSpanElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSpanElement) to Kotlin\n */\npublic external abstract class HTMLSpanElement : HTMLElement {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLBRElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBRElement) to Kotlin\n

*/\npublic external abstract class HTMLBRElement : HTMLElement {\n    open var clear: String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n
val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript [HTMLHyperlinkElementUtils](https://developer.mozilla.org/en/docs/Web/API/HTMLHyperlinkElementUtils) to Kotlin\n */\npublic external interface HTMLHyperlinkElementUtils {\n    var href: String\n    val origin: String\n    var protocol: String\n    var username: String\n    var password: String\n    var host: String\n    var hostname: String\n    var port: String\n    var pathname: String\n    var search: String\n    var hash: String\n}\n\n/**\n * Exposes the JavaScript [HTMLModElement](https://developer.mozilla.org/en/docs/Web/API/HTMLModElement) to Kotlin\n */\npublic external abstract class HTMLModElement
: HTMLElement {\n    open var cite: String\n    open var dateTime: String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript [HTMLPictureElement](https://developer.mozilla.org/en/docs/Web/API/HTMLPictureElement) to Kotlin\n */\npublic
external abstract class HTMLPictureElement : HTMLElement {\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript [HTMLSourceElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSourceElement) to Kotlin\n */\npublic external
abstract class HTMLSourceElement : HTMLElement {\n    open var src: String\n    open var type: String\n    open var srcset: String\n    open var sizes: String\n    open var media: String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val

DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLImageElement](https://developer.mozilla.org/en/docs/Web/API/HTMLImageElement) to Kotlin\n */\npublic external abstract class HTMLImageElement : HTMLElement, HTMLOrSVGImageElement, TexImageSource {\n open var alt: String\n open var src: String\n open var srcset: String\n open var sizes: String\n open var crossOrigin: String?\n open var useMap: String\n open var isMap: Boolean\n open var width: Int\n open var height: Int\n open val naturalWidth: Int\n open val naturalHeight: Int\n open val complete: Boolean\n open val currentSrc: String\n open var referrerPolicy: String\n open var name: String\n open var lowsrc: String\n open var align: String\n open var hspace: Int\n open var vspace: Int\n open var longDesc: String\n open var border: String\n open val x: Int\n open val y: Int\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLIFrameElement](https://developer.mozilla.org/en/docs/Web/API/HTMLIFrameElement) to Kotlin\n */\npublic external abstract class HTMLIFrameElement : HTMLElement {\n open var src: String\n open var srcdoc: String\n open var name: String\n open val sandbox: DOMTokenList\n open var allowFullscreen: Boolean\n open var allowUserMedia: Boolean\n open var width: String\n open var height: String\n open var referrerPolicy: String\n open val contentDocument: Document?\n open val contentWindow: Window?\n open var align: String\n open var scrolling: String\n open var frameBorder: String\n open var longDesc: String\n open var marginHeight: String\n open var marginWidth: String\n fun getSVGDocument(): Document?\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLEmbedElement](https://developer.mozilla.org/en/docs/Web/API/HTMLEmbedElement) to Kotlin\n */\npublic external abstract class HTMLEmbedElement : HTMLElement {\n open var src: String\n open var type: String\n open var width: String\n open var height: String\n open var align: String\n open var name: String\n fun getSVGDocument(): Document?\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n

val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLObjectElement](https://developer.mozilla.org/en/docs/Web/API/HTMLObjectElement) to Kotlin\n */\npublic external abstract class HTMLObjectElement : HTMLElement {\n open var data: String\n open var type: String\n open var typeMustMatch: Boolean\n open var name: String\n open var useMap: String\n open val form: HTMLFormElement?\n open var width: String\n open var height: String\n open val contentDocument: Document?\n open val contentWindow: Window?\n open val willValidate: Boolean\n open val validity: ValidityState\n
open val validationMessage: String\n open var align: String\n open var archive: String\n open var code: String\n open var declare: Boolean\n open var hspace: Int\n open var standby: String\n open var vspace: Int\n open var codeBase: String\n open var codeType: String\n open var border: String\n fun getSVGDocument(): Document?\n fun checkValidity(): Boolean\n fun reportValidity(): Boolean\n fun setCustomValidity(error: String)\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED:
Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLParamElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParamElement) to Kotlin\n */\npublic external abstract class HTMLParamElement : HTMLElement {\n open var name: String\n open var value: String\n open var type: String\n open var valueType: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE:
Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLVideoElement](https://developer.mozilla.org/en/docs/Web/API/HTMLVideoElement) to Kotlin\n */\npublic external abstract class HTMLVideoElement : HTMLMediaElement, CanvasImageSource, TexImageSource {\n open var width: Int\n open var height: Int\n open val videoWidth: Int\n open val videoHeight: Int\n open var poster: String\n open var playsInline: Boolean\n\n companion object {\n val NETWORK_EMPTY: Short\n val NETWORK_IDLE: Short\n val NETWORK_LOADING: Short\n val NETWORK_NO_SOURCE: Short\n val HAVE_NOTHING: Short\n val HAVE_METADATA:
Short\n val HAVE_CURRENT_DATA: Short\n val HAVE_FUTURE_DATA: Short\n val HAVE_ENOUGH_DATA: Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n

val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLAudioElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAudioElement) to Kotlin\n */\npublic external abstract class HTMLAudioElement : HTMLMediaElement {\n companion object {\n val NETWORK_EMPTY: Short\n val NETWORK_IDLE: Short\n val NETWORK_LOADING: Short\n val NETWORK_NO_SOURCE: Short\n val HAVE_NOTHING: Short\n val HAVE_METADATA: Short\n val HAVE_CURRENT_DATA: Short\n val HAVE_FUTURE_DATA: Short\n val HAVE_ENOUGH_DATA: Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLTrackElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTrackElement) to Kotlin\n */\npublic external abstract class HTMLTrackElement : HTMLElement {\n open var kind: String\n open var src: String\n open var srclang: String\n open var label: String\n open var default: Boolean\n open val readyState: Short\n open val track: TextTrack\n\n companion object {\n val NONE: Short\n val LOADING: Short\n val LOADED: Short\n val ERROR: Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLMediaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMediaElement) to Kotlin\n */\npublic external abstract class HTMLMediaElement : HTMLElement {\n open val error: MediaError?\n open var src: String\n open var srcObject: MediaProvider?\n open val currentSrc: String\n open var crossOrigin: String?\n open val networkState: Short\n open var preload: String\n open val buffered: TimeRanges\n open val readyState: Short\n open val seeking: Boolean\n open var currentTime: Double\n open val duration: Double\n open val paused: Boolean\n open var defaultPlaybackRate: Double\n open var playbackRate: Double\n open val played: TimeRanges\n open val seekable: TimeRanges\n open val ended: Boolean\n open var autoplay: Boolean\n open var loop: Boolean\n open var controls: Boolean\n open var volume: Double\n open var muted: Boolean\n open var defaultMuted: Boolean\n open val audioTracks: AudioTrackList\n open val videoTracks: VideoTrackList\n open val textTracks: TextTrackList\n open val mediaKeys: MediaKeys?\n open var onencrypted: ((Event) -> dynamic)?\n open var onwaitingforkey: ((Event) -> dynamic)?\n fun load()\n fun canPlayType(type: String): CanPlayTypeResult\n fun fastSeek(time: Double)\n fun getStartDate(): dynamic\n fun play(): Promise<Unit>\n fun pause()\n fun addTextTrack(kind: TextTrackKind, label: String = definedExternally, language:

```
 String = definedExternally): TextTrack\n    fun setMediaKeys(mediaKeys: MediaKeys?): Promise<Unit>\n\n
companion object {\n        val NETWORK_EMPTY: Short\n        val NETWORK_IDLE: Short\n        val
NETWORK_LOADING: Short\n        val NETWORK_NO_SOURCE: Short\n        val HAVE_NOTHING: Short\n
    val HAVE_METADATA: Short\n        val HAVE_CURRENT_DATA: Short\n        val
HAVE_FUTURE_DATA: Short\n        val HAVE_ENOUGH_DATA: Short\n        val ELEMENT_NODE: Short\n
    val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n
   val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
   val DOCUMENT_POSITION_FOLLOWING:
 Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val
DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[MediaError](https://developer.mozilla.org/en/docs/Web/API/MediaError) to Kotlin\n */\npublic external abstract
class MediaError {\n    open val code: Short\n\n    companion object {\n        val MEDIA_ERR_ABORTED: Short\n
    val MEDIA_ERR_NETWORK: Short\n        val MEDIA_ERR_DECODE: Short\n        val
MEDIA_ERR_SRC_NOT_SUPPORTED: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[AudioTrackList](https://developer.mozilla.org/en/docs/Web/API/AudioTrackList) to Kotlin\n */\npublic external
abstract class AudioTrackList : EventTarget {\n    open val length: Int\n    open var onchange: ((Event) ->
dynamic)?\n    open var onaddtrack: ((TrackEvent) -> dynamic)?\n    open var onremovetrack: ((TrackEvent) ->
dynamic)?\n    fun getTrackById(id: String): AudioTrack?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
 \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun AudioTrackList.get(index:
Int): AudioTrack? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[AudioTrack](https://developer.mozilla.org/en/docs/Web/API/AudioTrack) to Kotlin\n */\npublic external abstract
class AudioTrack : UnionAudioTrackOrTextTrackOrVideoTrack {\n    open val id: String\n    open val kind:
String\n    open val label: String\n    open val language: String\n    open var enabled: Boolean\n    open val
sourceBuffer: SourceBuffer?\n}\n\n/**\n * Exposes the JavaScript
[VideoTrackList](https://developer.mozilla.org/en/docs/Web/API/VideoTrackList) to Kotlin\n */\npublic external
abstract class VideoTrackList : EventTarget {\n    open val length: Int\n    open val selectedIndex: Int\n    open var
onchange: ((Event) -> dynamic)?\n    open var onaddtrack: ((TrackEvent) -> dynamic)?\n    open var
onremovetrack: ((TrackEvent) -> dynamic)?\n    fun
 getTrackById(id: String): VideoTrack?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun VideoTrackList.get(index:
Int): VideoTrack? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[VideoTrack](https://developer.mozilla.org/en/docs/Web/API/VideoTrack) to Kotlin\n */\npublic external abstract
class VideoTrack : UnionAudioTrackOrTextTrackOrVideoTrack {\n    open val id: String\n    open val kind:
String\n    open val label: String\n    open val language: String\n    open var selected: Boolean\n    open val
sourceBuffer: SourceBuffer?\n}\n\npublic external abstract class TextTrackList : EventTarget {\n    open val length:
Int\n    open var onchange: ((Event) -> dynamic)?\n    open var onaddtrack: ((TrackEvent) -> dynamic)?\n    open
var onremovetrack: ((TrackEvent) -> dynamic)?\n    fun getTrackById(id: String):
TextTrack?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic
 inline operator fun TextTrackList.get(index: Int): TextTrack? = asDynamic()[index]\n\n/**\n * Exposes the
JavaScript [TextTrack](https://developer.mozilla.org/en/docs/Web/API/TextTrack) to Kotlin\n */\npublic external
abstract class TextTrack : EventTarget, UnionAudioTrackOrTextTrackOrVideoTrack {\n    open val kind:
TextTrackKind\n    open val label: String\n    open val language: String\n    open val id: String\n    open val
```

```
inBandMetadataTrackDispatchType: String\n    open var mode: TextTrackMode\n    open val cues:
TextTrackCueList?\n    open val activeCues: TextTrackCueList?\n    open var oncuechange: ((Event) ->
dynamic)?\n    open val sourceBuffer: SourceBuffer?\n    fun addCue(cue: TextTrackCue)\n    fun removeCue(cue:
TextTrackCue)\n}\n\npublic external abstract class TextTrackCueList {\n    open val length: Int\n    fun
getCueById(id: String): TextTrackCue?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator
 fun TextTrackCueList.get(index: Int): TextTrackCue? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[TextTrackCue](https://developer.mozilla.org/en/docs/Web/API/TextTrackCue) to Kotlin\n */\npublic external
abstract class TextTrackCue : EventTarget {\n    open val track: TextTrack?\n    open var id: String\n    open var
startTime: Double\n    open var endTime: Double\n    open var pauseOnExit: Boolean\n    open var onenter: ((Event)
-> dynamic)?\n    open var onexit: ((Event) -> dynamic)?\n}\n\n/**\n * Exposes the JavaScript
[TimeRanges](https://developer.mozilla.org/en/docs/Web/API/TimeRanges) to Kotlin\n */\npublic external abstract
class TimeRanges {\n    open val length: Int\n    fun start(index: Int): Double\n    fun end(index: Int):
Double\n}\n\n/**\n * Exposes the JavaScript
[TrackEvent](https://developer.mozilla.org/en/docs/Web/API/TrackEvent) to Kotlin\n */\npublic external open class
TrackEvent(type: String, eventInitDict: TrackEventInit = definedExternally) : Event
 {\n    open val track: UnionAudioTrackOrTextTrackOrVideoTrack?\n\n    companion object {\n        val NONE:
Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE:
Short\n    }\n}\n\npublic external interface TrackEventInit : EventInit {\n    var track:
UnionAudioTrackOrTextTrackOrVideoTrack? /* = null */\n        get() = definedExternally\n        set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun TrackEventInit(track:
UnionAudioTrackOrTextTrackOrVideoTrack? = null, bubbles: Boolean? = false, cancelable: Boolean? = false,
composed: Boolean? = false): TrackEventInit {\n    val o = js(\"({})\")\n    o[\"track\"] = track\n    o[\"bubbles\"] =
bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return o\n}\n\n/**\n * Exposes the
JavaScript [HTMLMapElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMapElement) to Kotlin\n
 */\npublic external abstract class HTMLMapElement : HTMLElement {\n    open var name: String\n    open val
areas: HTMLCollection\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
     val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLAreaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAreaElement)
 to Kotlin\n */\npublic external abstract class HTMLAreaElement : HTMLElement, HTMLHyperlinkElementUtils
{\n    open var alt: String\n    open var coords: String\n    open var shape: String\n    open var target: String\n    open
var download: String\n    open var ping: String\n    open var rel: String\n    open val relList: DOMTokenList\n
open var referrerPolicy: String\n    open var noHref: Boolean\n\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING:
```

Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLTableElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableElement) to Kotlin\n */\npublic external abstract class HTMLTableElement : HTMLElement {\n open var caption: HTMLTableCaptionElement?\n open var tHead: HTMLTableSectionElement?\n open var tFoot: HTMLTableSectionElement?\n open val tBodies: HTMLCollection\n open val rows: HTMLCollection\n open var align: String\n open var border: String\n open var frame: String\n open var rules: String\n open var summary: String\n open var width: String\n open var bgColor: String\n open var cellPadding: String\n open var cellSpacing: String\n fun createCaption(): HTMLTableCaptionElement\n fun deleteCaption()\n fun createTHead(): HTMLTableSectionElement\n fun deleteTHead()\n fun createTFoot(): HTMLTableSectionElement\n fun deleteTFoot()\n fun createTBody(): HTMLTableSectionElement\n fun insertRow(index: Int = definedExternally): HTMLTableRowElement\n fun deleteRow(index: Int)\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLTableCaptionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableCaptionElement) to Kotlin\n */\npublic external abstract class HTMLTableCaptionElement : HTMLElement {\n open var align: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLTableColElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableColElement) to Kotlin\n */\npublic external abstract class HTMLTableColElement : HTMLElement {\n open var span: Int\n open var align: String\n open var ch: String\n open var chOff: String\n open var vAlign: String\n open var width: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript

[HTMLTableSectionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableSectionElement) to Kotlin\n */\npublic external abstract class HTMLTableSectionElement : HTMLElement {\n open val rows: HTMLCollection\n open var align: String\n open var ch: String\n open var chOff: String\n open var vAlign: String\n fun insertRow(index: Int = definedExternally): HTMLElement\n fun deleteRow(index: Int)\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE:
Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLTableRowElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableRowElement) to Kotlin\n */\npublic external abstract class HTMLTableRowElement : HTMLElement {\n open val rowIndex: Int\n open val sectionRowIndex: Int\n open val cells: HTMLCollection\n open var align: String\n open var ch: String\n open var chOff: String\n open var vAlign: String\n open var bgColor: String\n fun insertCell(index: Int = definedExternally): HTMLElement\n
fun deleteCell(index: Int)\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLTableCellElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableCellElement) to Kotlin\n */\npublic external abstract class HTMLTableCellElement
: HTMLElement {\n open var colSpan: Int\n open var rowSpan: Int\n open var headers: String\n open val cellIndex: Int\n open var scope: String\n open var abbr: String\n open var align: String\n open var axis: String\n open var height: String\n open var width: String\n open var ch: String\n open var chOff: String\n open var noWrap: Boolean\n open var vAlign: String\n open var bgColor: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING:
Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLFormElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFormElement) to Kotlin\n */\npublic external abstract class HTMLFormElement : HTMLElement {\n open var acceptCharset: String\n open var action: String\n open var autocomplete: String\n open var enctype: String\n open var encoding: String\n open var method: String\n open var name: String\n open var noValidate: Boolean\n open var target:

String\n    open val elements: HTMLFormControlsCollection\n    open val length: Int\n    fun submit()\n    fun reset()\n    fun checkValidity(): Boolean\n    fun reportValidity(): Boolean\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLFormElement.get(index: Int): Element? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLFormElement.get(name: String): UnionElementOrRadioNodeList? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript [HTMLLabelElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLabelElement) to Kotlin\n */\npublic external abstract class HTMLLabelElement : HTMLElement {\n    open val form: HTMLFormElement?\n    open var htmlFor: String\n    open val control: HTMLElement?\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript [HTMLInputElement](https://developer.mozilla.org/en/docs/Web/API/HTMLInputElement) to Kotlin\n */\npublic external abstract class HTMLInputElement : HTMLElement {\n    open var accept: String\n    open var alt: String\n    open var autocomplete: String\n    open var autofocus: Boolean\n    open var defaultChecked: Boolean\n    open var checked: Boolean\n    open var dirName: String\n    open var disabled: Boolean\n    open val form: HTMLFormElement?\n    open val files: FileList?\n    open var formAction: String\n    open var formEnctype: String\n    open var formMethod: String\n    open var formNoValidate: Boolean\n    open var formTarget: String\n    open var height: Int\n    open var indeterminate: Boolean\n    open var inputMode: String\n    open val list: HTMLElement?\n    open var max: String\n    open var maxLength: Int\n    open var min: String\n    open var minLength: Int\n    open var multiple: Boolean\n    open var name: String\n    open var pattern: String\n    open var placeholder: String\n    open var readOnly: Boolean\n    open var required: Boolean\n    open var size: Int\n    open var src: String\n    open var step: String\n    open var type: String\n    open var defaultValue: String\n    open var value: String\n    open var valueAsDate: dynamic\n    open var valueAsNumber: Double\n    open var width: Int\n    open val willValidate: Boolean\n    open val validity: ValidityState\n    open val validationMessage: String\n    open val labels: NodeList\n    open var selectionStart: Int?\n    open var selectionEnd: Int?\n    open var selectionDirection: String?\n    open var align: String\n    open var useMap: String\n    fun stepUp(n: Int = definedExternally)\n    fun stepDown(n: Int = definedExternally)\n    fun checkValidity(): Boolean\n    fun reportValidity(): Boolean\n    fun setCustomValidity(error:

String)\n fun select()\n fun setRangeText(replacement: String)\n fun setRangeText(replacement: String, start: Int, end: Int, selectionMode: SelectionMode = definedExternally)\n fun setSelectionRange(start: Int, end: Int, direction: String = definedExternally)\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLButtonElement](https://developer.mozilla.org/en/docs/Web/API/HTMLButtonElement) to Kotlin\n */\npublic external abstract class HTMLButtonElement : HTMLElement {\n open var autofocus: Boolean\n open var disabled: Boolean\n open val form: HTMLFormElement?\n open var formAction: String\n open var formEnctype: String\n open var formMethod: String\n open var formNoValidate: Boolean\n open var formTarget: String\n open var name: String\n open var type: String\n open var value: String\n open var menu: HTMLMenuElement?\n open val willValidate: Boolean\n open val validity: ValidityState\n open val validationMessage: String\n open val labels: NodeList\n fun checkValidity(): Boolean\n fun reportValidity(): Boolean\n fun setCustomValidity(error: String)\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLSelectElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSelectElement) to Kotlin\n */\npublic external abstract class HTMLSelectElement : HTMLElement, ItemArrayLike<Element> {\n open var autocomplete: String\n open var autofocus: Boolean\n open var disabled: Boolean\n open val form: HTMLFormElement?\n open var multiple: Boolean\n open var name: String\n open var required: Boolean\n open var size: Int\n open val type: String\n open val options: HTMLOptionsCollection\n override var length: Int\n open val selectedOptions: HTMLCollection\n open var selectedIndex: Int\n open var value: String\n open val willValidate: Boolean\n open val validity: ValidityState\n open val validationMessage: String\n open val labels: NodeList\n fun namedItem(name: String): HTMLOptionElement?\n fun add(element: UnionHTMLOptGroupElementOrHTMLOptionElement, before: dynamic = definedExternally)\n fun remove(index: Int)\n fun checkValidity(): Boolean\n fun reportValidity(): Boolean\n fun setCustomValidity(error: String)\n override fun item(index: Int): Element?\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n

```
    val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n
}\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun
HTMLSelectElement.get(index: Int): Element? =
asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun
HTMLSelectElement.set(index: Int, option:
 HTMLOptionElement?) { asDynamic()[index] = option }\n\n/**\n * Exposes the JavaScript
[HTMLDataListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDataListElement) to Kotlin\n
*/\npublic external abstract class HTMLDataListElement : HTMLElement {\n    open val options:
HTMLCollection\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE:
Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY:
 Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript
[HTMLOptGroupElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOptGroupElement) to Kotlin\n
*/\npublic external abstract class HTMLOptGroupElement : HTMLElement,
UnionHTMLOptGroupElementOrHTMLOptionElement {\n    open var disabled: Boolean\n    open var label:
String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n
val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
    val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING:
 Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val
DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLOptionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOptionElement) to Kotlin\n
*/\npublic external abstract class HTMLOptionElement : HTMLElement,
UnionHTMLOptGroupElementOrHTMLOptionElement {\n    open var disabled: Boolean\n    open val form:
HTMLFormElement?\n    open var label: String\n    open var defaultSelected: Boolean\n    open var selected:
Boolean\n    open var value: String\n    open var text: String\n    open val index: Int\n\n    companion object {\n
val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n
  val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
```

```
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTextAreaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTextAreaElement) to Kotlin\n
*/\npublic external abstract class HTMLTextAreaElement : HTMLElement {\n    open var autocomplete: String\n
open var autofocus: Boolean\n    open var cols: Int\n    open var dirName: String\n    open var disabled: Boolean\n
open val form: HTMLFormElement?\n    open var inputMode: String\n    open var maxLength: Int\n    open var
minLength: Int\n    open var name: String\n    open var placeholder:
 String\n    open var readOnly: Boolean\n    open var required: Boolean\n    open var rows: Int\n    open var wrap:
String\n    open val type: String\n    open var defaultValue: String\n    open var value: String\n    open val
textLength: Int\n    open val willValidate: Boolean\n    open val validity: ValidityState\n    open val
validationMessage: String\n    open val labels: NodeList\n    open var selectionStart: Int?\n    open var selectionEnd:
Int?\n    open var selectionDirection: String?\n    fun checkValidity(): Boolean\n    fun reportValidity(): Boolean\n
fun setCustomValidity(error: String)\n    fun select()\n    fun setRangeText(replacement: String)\n    fun
setRangeText(replacement: String, start: Int, end: Int, selectionMode: SelectionMode = definedExternally)\n    fun
setSelectionRange(start: Int, end: Int, direction: String = definedExternally)\n\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLKeygenElement](https://developer.mozilla.org/en/docs/Web/API/HTMLKeygenElement) to Kotlin\n
*/\npublic external abstract class HTMLKeygenElement : HTMLElement {\n    open var autofocus: Boolean\n
open var challenge: String\n    open var disabled: Boolean\n    open val form: HTMLFormElement?\n    open
 var keytype: String\n    open var name: String\n    open val type: String\n    open val willValidate: Boolean\n    open
val validity: ValidityState\n    open val validationMessage: String\n    open val labels: NodeList\n    fun
checkValidity(): Boolean\n    fun reportValidity(): Boolean\n    fun setCustomValidity(error: String)\n\n
companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val
TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
    val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n

    val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLOutputElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOutputElement) to Kotlin\n
*/\npublic external abstract class HTMLOutputElement : HTMLElement {\n    open val htmlFor: DOMTokenList\n
 open val form: HTMLFormElement?\n    open var name: String\n    open val type: String\n    open var
defaultValue: String\n    open var value: String\n    open val willValidate: Boolean\n    open val validity:
ValidityState\n    open val validationMessage: String\n    open val labels: NodeList\n    fun checkValidity():
Boolean\n    fun reportValidity(): Boolean\n    fun setCustomValidity(error: String)\n\n    companion object {\n
val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
```

Short\n
val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLProgressElement](https://developer.mozilla.org/en/docs/Web/API/HTMLProgressElement) to Kotlin\n */\npublic external abstract class HTMLProgressElement : HTMLElement {\n open var value: Double\n open var max: Double\n open val position: Double\n open val labels: NodeList\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLMeterElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMeterElement) to Kotlin\n */\npublic external abstract class HTMLMeterElement : HTMLElement {\n open var value: Double\n open var min: Double\n open var max: Double\n open var low: Double\n open var high: Double\n open var optimum: Double\n open val labels: NodeList\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLFieldSetElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFieldSetElement) to Kotlin\n */\npublic external abstract class
HTMLFieldSetElement : HTMLElement {\n open var disabled: Boolean\n open val form: HTMLFormElement?\n open var name: String\n open val type: String\n open val elements: HTMLCollection\n open val willValidate: Boolean\n open val validity: ValidityState\n open val validationMessage: String\n fun checkValidity(): Boolean\n fun reportValidity(): Boolean\n fun setCustomValidity(error: String)\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n

val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLLegendElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLegendElement) to Kotlin\n */\npublic external abstract class HTMLLegendElement : HTMLElement {\n open val form: HTMLFormElement?\n open var align: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [ValidityState](https://developer.mozilla.org/en/docs/Web/API/ValidityState) to Kotlin\n */\npublic external abstract class ValidityState {\n open val valueMissing: Boolean\n open val typeMismatch: Boolean\n open val patternMismatch: Boolean\n open val tooLong: Boolean\n open val tooShort: Boolean\n open val rangeUnderflow: Boolean\n open val rangeOverflow: Boolean\n open val stepMismatch: Boolean\n open val badInput: Boolean\n open val customError: Boolean\n open val valid: Boolean\n}\n\n/**\n * Exposes the JavaScript [HTMLDetailsElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDetailsElement) to Kotlin\n */\npublic external abstract class HTMLDetailsElement : HTMLElement {\n open var open: Boolean\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class HTMLMenuElement : HTMLElement {\n open var type: String\n open var label: String\n open var compact: Boolean\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class HTMLMenuItemElement : HTMLElement {\n open var type: String\n open var label: String\n open var icon: String\n open var disabled: Boolean\n open var checked: Boolean\n open var radiogroup: String\n open var default: Boolean\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val

PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external open class RelatedEvent(type: String, eventInitDict: RelatedEventInit = definedExternally) : Event {\n open val relatedTarget: EventTarget?\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface RelatedEventInit : EventInit {\n var relatedTarget: EventTarget? /* = null */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun RelatedEventInit(relatedTarget: EventTarget? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): RelatedEventInit {\n val o = js(\"({})\")\n o[\"relatedTarget\"] = relatedTarget\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript [HTMLDialogElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDialogElement) to Kotlin\n */\npublic external abstract class HTMLDialogElement : HTMLElement {\n open var open: Boolean\n open var returnValue: String\n fun show(anchor: UnionElementOrMouseEvent = definedExternally)\n fun showModal(anchor: UnionElementOrMouseEvent = definedExternally)\n fun close(returnValue: String = definedExternally)\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLScriptElement](https://developer.mozilla.org/en/docs/Web/API/HTMLScriptElement) to Kotlin\n */\npublic external abstract class HTMLScriptElement : HTMLElement, HTMLOrSVGScriptElement {\n open var src: String\n open var type: String\n open var charset: String\n open var async: Boolean\n open var defer: Boolean\n open var crossOrigin: String?\n open var text: String\n open var nonce: String\n open var event: String\n open var htmlFor: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLTemplateElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTemplateElement) to Kotlin\n */\npublic external abstract class HTMLTemplateElement : HTMLElement {\n open val content:

DocumentFragment\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript [HTMLSlotElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSlotElement) to Kotlin\n */\npublic external abstract class HTMLSlotElement : HTMLElement {\n    open var name: String\n    fun assignedNodes(options: AssignedNodesOptions = definedExternally): Array<Node>\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external interface AssignedNodesOptions {\n    var flatten: Boolean? /* = false */\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun AssignedNodesOptions(flatten: Boolean? = false): AssignedNodesOptions {\n    val o = js(\"({})\")\n    o[\"flatten\"] = flatten\n    return o\n}\n\n/**\n * Exposes the JavaScript [HTMLCanvasElement](https://developer.mozilla.org/en/docs/Web/API/HTMLCanvasElement) to Kotlin\n */\npublic external abstract class HTMLCanvasElement : HTMLElement, CanvasImageSource, TexImageSource {\n    open var width: Int\n    open var height: Int\n    fun getContext(contextId: String, vararg arguments: Any?): RenderingContext?\n    fun toDataURL(type: String = definedExternally, quality: Any? = definedExternally): String\n    fun toBlob(_callback: (Blob?) -> Unit, type: String = definedExternally, quality: Any? = definedExternally)\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external interface CanvasRenderingContext2DSettings {\n    var alpha: Boolean? /* = true */\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun CanvasRenderingContext2DSettings(alpha: Boolean? = true): CanvasRenderingContext2DSettings {\n    val o = js(\"({})\")\n    o[\"alpha\"] = alpha\n    return o\n}\n\n/**\n * Exposes the JavaScript [CanvasRenderingContext2D](https://developer.mozilla.org/en/docs/Web/API/CanvasRenderingContext2D) to

```
Kotlin\n */\npublic external abstract class CanvasRenderingContext2D : CanvasState, CanvasTransform,
CanvasCompositing, CanvasImageSmoothing, CanvasFillStrokeStyles, CanvasShadowStyles,
 CanvasFilters, CanvasRect, CanvasDrawPath, CanvasUserInterface, CanvasText, CanvasDrawImage,
CanvasHitRegion, CanvasImageData, CanvasPathDrawingStyles, CanvasTextDrawingStyles, CanvasPath,
RenderingContext {\n    open val canvas: HTMLCanvasElement\n}\n\npublic external interface CanvasState {\n
fun save()\n    fun restore()\n}\n\npublic external interface CanvasTransform {\n    fun scale(x: Double, y: Double)\n
 fun rotate(angle: Double)\n    fun translate(x: Double, y: Double)\n    fun transform(a: Double, b: Double, c:
Double, d: Double, e: Double, f: Double)\n    fun getTransform(): DOMMatrix\n    fun setTransform(a: Double, b:
Double, c: Double, d: Double, e: Double, f: Double)\n    fun setTransform(transform: dynamic =
definedExternally)\n    fun resetTransform()\n}\n\npublic external interface CanvasCompositing {\n    var
globalAlpha: Double\n    var globalCompositeOperation: String\n}\n\npublic external interface
CanvasImageSmoothing {\n    var imageSmoothingEnabled:
 Boolean\n    var imageSmoothingQuality: ImageSmoothingQuality\n}\n\npublic external interface
CanvasFillStrokeStyles {\n    var strokeStyle: dynamic\n        get() = definedExternally\n        set(value) =
definedExternally\n    var fillStyle: dynamic\n        get() = definedExternally\n        set(value) = definedExternally\n
fun createLinearGradient(x0: Double, y0: Double, x1: Double, y1: Double): CanvasGradient\n    fun
createRadialGradient(x0: Double, y0: Double, r0: Double, x1: Double, y1: Double, r1: Double): CanvasGradient\n
fun createPattern(image: CanvasImageSource, repetition: String): CanvasPattern?\n}\n\npublic external interface
CanvasShadowStyles {\n    var shadowOffsetX: Double\n    var shadowOffsetY: Double\n    var shadowBlur:
Double\n    var shadowColor: String\n}\n\npublic external interface CanvasFilters {\n    var filter:
String\n}\n\npublic external interface CanvasRect {\n    fun clearRect(x: Double, y: Double, w: Double, h:
Double)\n    fun fillRect(x:
 Double, y: Double, w: Double, h: Double)\n    fun strokeRect(x: Double, y: Double, w: Double, h:
Double)\n}\n\npublic external interface CanvasDrawPath {\n    fun beginPath()\n    fun fill(fillRule: CanvasFillRule
= definedExternally)\n    fun fill(path: Path2D, fillRule: CanvasFillRule = definedExternally)\n    fun stroke()\n
fun stroke(path: Path2D)\n    fun clip(fillRule: CanvasFillRule = definedExternally)\n    fun clip(path: Path2D,
fillRule: CanvasFillRule = definedExternally)\n    fun resetClip()\n    fun isPointInPath(x: Double, y: Double,
fillRule: CanvasFillRule = definedExternally): Boolean\n    fun isPointInPath(path: Path2D, x: Double, y: Double,
fillRule: CanvasFillRule = definedExternally): Boolean\n    fun isPointInStroke(x: Double, y: Double): Boolean\n
fun isPointInStroke(path: Path2D, x: Double, y: Double): Boolean\n}\n\npublic external interface
CanvasUserInterface {\n    fun drawFocusIfNeeded(element: Element)\n    fun drawFocusIfNeeded(path: Path2D,
 element: Element)\n    fun scrollPathIntoView()\n    fun scrollPathIntoView(path: Path2D)\n}\n\npublic external
interface CanvasText {\n    fun fillText(text: String, x: Double, y: Double, maxWidth: Double =
definedExternally)\n    fun strokeText(text: String, x: Double, y: Double, maxWidth: Double = definedExternally)\n
 fun measureText(text: String): TextMetrics\n}\n\npublic external interface CanvasDrawImage {\n    fun
drawImage(image: CanvasImageSource, dx: Double, dy: Double)\n    fun drawImage(image: CanvasImageSource,
dx: Double, dy: Double, dw: Double, dh: Double)\n    fun drawImage(image: CanvasImageSource, sx: Double, sy:
Double, sw: Double, sh: Double, dx: Double, dy: Double, dw: Double, dh: Double)\n}\n\npublic external interface
CanvasHitRegion {\n    fun addHitRegion(options: HitRegionOptions = definedExternally)\n    fun
removeHitRegion(id: String)\n    fun clearHitRegions()\n}\n\npublic external interface CanvasImageData {\n    fun
createImageData(sw: Double, sh: Double):
 ImageData\n    fun createImageData(imagedata: ImageData): ImageData\n    fun getImageData(sx: Double, sy:
Double, sw: Double, sh: Double): ImageData\n    fun putImageData(imagedata: ImageData, dx: Double, dy:
Double)\n    fun putImageData(imagedata: ImageData, dx: Double, dy: Double, dirtyX: Double, dirtyY: Double,
dirtyWidth: Double, dirtyHeight: Double)\n}\n\npublic external interface CanvasPathDrawingStyles {\n    var
lineWidth: Double\n    var lineCap: CanvasLineCap\n    var lineJoin: CanvasLineJoin\n    var miterLimit: Double\n
var lineDashOffset: Double\n    fun setLineDash(segments: Array<Double>)\n    fun getLineDash():
Array<Double>\n}\n\npublic external interface CanvasTextDrawingStyles {\n    var font: String\n    var textAlign:
```

CanvasTextAlign\n var textBaseline: CanvasTextBaseline\n var direction: CanvasDirection\n}\n\npublic external interface CanvasPath {\n fun closePath()\n fun moveTo(x: Double, y: Double)\n fun lineTo(x: Double, y: Double)\n
fun quadraticCurveTo(cpx: Double, cpy: Double, x: Double, y: Double)\n fun bezierCurveTo(cp1x: Double, cp1y: Double, cp2x: Double, cp2y: Double, x: Double, y: Double)\n fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radius: Double)\n fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radiusX: Double, radiusY: Double, rotation: Double)\n fun rect(x: Double, y: Double, w: Double, h: Double)\n fun arc(x: Double, y: Double, radius: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean = definedExternally)\n fun ellipse(x: Double, y: Double, radiusX: Double, radiusY: Double, rotation: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean = definedExternally)\n}\n\n/**\n * Exposes the JavaScript [CanvasGradient](https://developer.mozilla.org/en/docs/Web/API/CanvasGradient) to Kotlin\n */\npublic external abstract class CanvasGradient {\n fun addColorStop(offset: Double, color: String)\n}\n\n/**\n * Exposes the JavaScript [CanvasPattern](https://developer.mozilla.org/en/docs/Web/API/CanvasPattern)
to Kotlin\n */\npublic external abstract class CanvasPattern {\n fun setTransform(transform: dynamic = definedExternally)\n}\n\n/**\n * Exposes the JavaScript [TextMetrics](https://developer.mozilla.org/en/docs/Web/API/TextMetrics) to Kotlin\n */\npublic external abstract class TextMetrics {\n open val width: Double\n open val actualBoundingBoxLeft: Double\n open val actualBoundingBoxRight: Double\n open val fontBoundingBoxAscent: Double\n open val fontBoundingBoxDescent: Double\n open val actualBoundingBoxAscent: Double\n open val actualBoundingBoxDescent: Double\n open val emHeightAscent: Double\n open val emHeightDescent: Double\n open val hangingBaseline: Double\n open val alphabeticBaseline: Double\n open val ideographicBaseline: Double\n}\n\npublic external interface HitRegionOptions {\n var path: Path2D? /* = null */\n get() = definedExternally\n set(value)
= definedExternally\n var fillRule: CanvasFillRule? /* = CanvasFillRule.NONZERO */\n get() = definedExternally\n set(value) = definedExternally\n var id: String? /* = \"\" */\n get() = definedExternally\n set(value) = definedExternally\n var parentID: String? /* = null */\n get() = definedExternally\n set(value) = definedExternally\n var cursor: String? /* = \"inherit\" */\n get() = definedExternally\n set(value) = definedExternally\n var control: Element? /* = null */\n get() = definedExternally\n set(value) = definedExternally\n var label: String? /* = null */\n get() = definedExternally\n set(value) = definedExternally\n var role: String? /* = null */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun HitRegionOptions(path: Path2D? = null,
fillRule: CanvasFillRule? = CanvasFillRule.NONZERO, id: String? = \"\", parentID: String? = null, cursor: String? = \"inherit\", control: Element? = null, label: String? = null, role: String? = null): HitRegionOptions {\n val o = js(\"({})\")\n o[\"path\"] = path\n o[\"fillRule\"] = fillRule\n o[\"id\"] = id\n o[\"parentID\"] = parentID\n o[\"cursor\"] = cursor\n o[\"control\"] = control\n o[\"label\"] = label\n o[\"role\"] = role\n return o\n}\n\n/**\n * Exposes the JavaScript [ImageData](https://developer.mozilla.org/en/docs/Web/API/ImageData) to Kotlin\n */\npublic external open class ImageData : ImageBitmapSource, TexImageSource {\n constructor(sw: Int, sh: Int)\n constructor(data: Uint8ClampedArray, sw: Int, sh: Int = definedExternally)\n open val width: Int\n open val height: Int\n open val data: Uint8ClampedArray\n}\n\n/**\n * Exposes the JavaScript [Path2D](https://developer.mozilla.org/en/docs/Web/API/Path2D) to Kotlin\n */\npublic
external open class Path2D() : CanvasPath {\n constructor(path: Path2D)\n constructor(paths: Array<Path2D>, fillRule: CanvasFillRule = definedExternally)\n constructor(d: String)\n fun addPath(path: Path2D, transform: dynamic = definedExternally)\n override fun closePath()\n override fun moveTo(x: Double, y: Double)\n override fun lineTo(x: Double, y: Double)\n override fun quadraticCurveTo(cpx: Double, cpy: Double, x: Double, y: Double)\n override fun bezierCurveTo(cp1x: Double, cp1y: Double, cp2x: Double, cp2y: Double, x: Double, y: Double)\n override fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radius: Double)\n override fun

arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radiusX: Double, radiusY: Double, rotation: Double)\n override fun rect(x: Double, y: Double, w: Double, h: Double)\n override fun arc(x: Double, y: Double, radius: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean /* = definedExternally */)\n override fun ellipse(x: Double, y: Double, radiusX: Double, radiusY: Double, rotation: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean /* = definedExternally */)\n}\n\n/**\n * Exposes the JavaScript [ImageBitmapRenderingContext](https://developer.mozilla.org/en/docs/Web/API/ImageBitmapRenderingContext) to Kotlin\n */\npublic external abstract class ImageBitmapRenderingContext {\n open val canvas: HTMLCanvasElement\n fun transferFromImageBitmap(bitmap: ImageBitmap?)\n}\n\npublic external interface ImageBitmapRenderingContextSettings {\n var alpha: Boolean? /* = true */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ImageBitmapRenderingContextSettings(alpha: Boolean? = true): ImageBitmapRenderingContextSettings {\n val o = js(\"({})\")\n o[\"alpha\"] = alpha\n return o\n}\n\n/**\n * Exposes the JavaScript [CustomElementRegistry](https://developer.mozilla.org/en/docs/Web/API/CustomElementRegistry) to Kotlin\n */\npublic external abstract class CustomElementRegistry {\n fun define(name: String, constructor: () -> dynamic, options: ElementDefinitionOptions = definedExternally)\n fun get(name: String): Any?\n fun whenDefined(name: String): Promise<Unit>\n}\n\npublic external interface ElementDefinitionOptions {\n var extends: String?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ElementDefinitionOptions(extends: String? = undefined): ElementDefinitionOptions {\n val o = js(\"({})\")\n o[\"extends\"] = extends\n return o\n}\n\npublic external interface ElementContentEditable {\n var contentEditable: String\n val isContentEditable: Boolean\n}\n\n/**\n * Exposes the JavaScript [DataTransfer](https://developer.mozilla.org/en/docs/Web/API/DataTransfer) to Kotlin\n */\npublic external abstract class DataTransfer {\n open var dropEffect: String\n open var effectAllowed: String\n open val items: DataTransferItemList\n open val types: Array<out String>\n open val files: FileList\n fun setDragImage(image: Element, x: Int, y: Int)\n fun getData(format: String): String\n fun setData(format: String, data: String)\n fun clearData(format: String = definedExternally)\n}\n\n/**\n * Exposes the JavaScript [DataTransferItemList](https://developer.mozilla.org/en/docs/Web/API/DataTransferItemList) to Kotlin\n */\npublic external abstract class DataTransferItemList {\n open val length: Int\n fun add(data: String, type: String): DataTransferItem?\n fun add(data: File): DataTransferItem?\n fun remove(index: Int)\n fun clear()\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun DataTransferItemList.get(index: Int): DataTransferItem? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript [DataTransferItem](https://developer.mozilla.org/en/docs/Web/API/DataTransferItem) to Kotlin\n */\npublic external abstract class DataTransferItem {\n open val kind: String\n open val type: String\n fun getAsString(_callback: ((String) -> Unit)?)\n fun getAsFile(): File?\n}\n\n/**\n * Exposes the JavaScript [DragEvent](https://developer.mozilla.org/en/docs/Web/API/DragEvent) to Kotlin\n */\npublic external open class DragEvent(type: String, eventInitDict: DragEventInit = definedExternally) : MouseEvent {\n open val dataTransfer: DataTransfer?\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface DragEventInit : MouseEventInit {\n var dataTransfer: DataTransfer? /* = null */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun DragEventInit(dataTransfer: DataTransfer? = null, screenX: Int? = 0, screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget: EventTarget? = null, region: String? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false,

modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): DragEventInit {\n val o = js(\"({})\")\n o[\"dataTransfer\"] = dataTransfer\n o[\"screenX\"] = screenX\n o[\"screenY\"] = screenY\n o[\"clientX\"] = clientX\n o[\"clientY\"] = clientY\n o[\"button\"] = button\n o[\"buttons\"] = buttons\n o[\"relatedTarget\"] = relatedTarget\n o[\"region\"] = region\n o[\"ctrlKey\"] = ctrlKey\n o[\"shiftKey\"] = shiftKey\n o[\"altKey\"] = altKey\n o[\"metaKey\"] = metaKey\n o[\"modifierAltGraph\"] = modifierAltGraph\n o[\"modifierCapsLock\"] = modifierCapsLock\n o[\"modifierFn\"] = modifierFn\n o[\"modifierFnLock\"] = modifierFnLock\n o[\"modifierHyper\"] = modifierHyper\n o[\"modifierNumLock\"] = modifierNumLock\n o[\"modifierScrollLock\"] = modifierScrollLock\n o[\"modifierSuper\"] = modifierSuper\n o[\"modifierSymbol\"] = modifierSymbol\n o[\"modifierSymbolLock\"] = modifierSymbolLock\n o[\"view\"] = view\n o[\"detail\"] = detail\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript [Window](https://developer.mozilla.org/en/docs/Web/API/Window) to Kotlin\n */\npublic external abstract class Window : EventTarget, GlobalEventHandlers, WindowEventHandlers, WindowOrWorkerGlobalScope, WindowSessionStorage, WindowLocalStorage, GlobalPerformance, UnionMessagePortOrWindowProxy {\n open val window: Window\n open val self: Window\n open val document: Document\n open var name: String\n open val location: Location\n open val history: History\n open val customElements: CustomElementRegistry\n open val locationbar: BarProp\n open val menubar: BarProp\n open val personalbar: BarProp\n open val scrollbars: BarProp\n open val statusbar: BarProp\n open val toolbar: BarProp\n open var status: String\n open val closed: Boolean\n open val frames: Window\n open val length: Int\n open val top: Window\n open var opener: Any?\n open val parent: Window\n open val frameElement: Element?\n open val navigator: Navigator\n
 open val applicationCache: ApplicationCache\n open val external: External\n open val screen: Screen\n open val innerWidth: Int\n open val innerHeight: Int\n open val scrollX: Double\n open val pageXOffset: Double\n open val scrollY: Double\n open val pageYOffset: Double\n open val screenX: Int\n open val screenY: Int\n open val outerWidth: Int\n open val outerHeight: Int\n open val devicePixelRatio: Double\n fun close()\n fun stop()\n fun focus()\n fun blur()\n fun open(url: String = definedExternally, target: String = definedExternally, features: String = definedExternally): Window?\n fun alert()\n fun alert(message: String)\n fun confirm(message: String = definedExternally): Boolean\n fun prompt(message: String = definedExternally, default: String = definedExternally): String?\n fun print()\n fun requestAnimationFrame(callback: (Double) -> Unit): Int\n fun cancelAnimationFrame(handle: Int)\n fun postMessage(message: Any?, targetOrigin: String, transfer: Array<dynamic> = definedExternally)\n fun captureEvents()\n fun releaseEvents()\n fun matchMedia(query: String): MediaQueryList\n fun moveTo(x: Int, y: Int)\n fun moveBy(x: Int, y: Int)\n fun resizeTo(x: Int, y: Int)\n fun resizeBy(x: Int, y: Int)\n fun scroll(options: ScrollToOptions = definedExternally)\n fun scroll(x: Double, y: Double)\n fun scrollTo(options: ScrollToOptions = definedExternally)\n fun scrollTo(x: Double, y: Double)\n fun scrollBy(options: ScrollToOptions = definedExternally)\n fun scrollBy(x: Double, y: Double)\n fun getComputedStyle(elt: Element, pseudoElt: String? = definedExternally): CSSStyleDeclaration\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Window.get(name: String): dynamic = asDynamic()[name]\n\npublic external abstract class BarProp {\n open val visible: Boolean\n}\n\n/**\n * Exposes the JavaScript [History](https://developer.mozilla.org/en/docs/Web/API/History) to Kotlin\n */\npublic external abstract class History {\n open val length: Int\n open var scrollRestoration: ScrollRestoration\n open val state: Any?\n fun go(delta: Int = definedExternally)\n fun back()\n fun forward()\n fun pushState(data: Any?, title:

String, url: String? = definedExternally)\n    fun replaceState(data: Any?, title: String, url: String? = definedExternally)\n}\n\n/**\n * Exposes the JavaScript [Location](https://developer.mozilla.org/en/docs/Web/API/Location) to Kotlin\n */\npublic external abstract class Location {\n    open var href: String\n    open val origin: String\n    open var protocol: String\n    open var host: String\n    open var hostname: String\n    open var port: String\n    open var pathname: String\n    open var search: String\n    open var hash: String\n    open val ancestorOrigins: Array<out String>\n    fun assign(url: String)\n    fun replace(url:
String)\n    fun reload()\n}\n\n/**\n * Exposes the JavaScript [PopStateEvent](https://developer.mozilla.org/en/docs/Web/API/PopStateEvent) to Kotlin\n */\npublic external open class PopStateEvent(type: String, eventInitDict: PopStateEventInit = definedExternally) : Event {\n    open val state: Any?\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface PopStateEventInit : EventInit {\n    var state: Any? /* = null */\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun PopStateEventInit(state: Any? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): PopStateEventInit {\n    val o = js(\"({})\")\n    o[\"state\"] = state\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return o\n}\n\n/**\n * Exposes the JavaScript [HashChangeEvent](https://developer.mozilla.org/en/docs/Web/API/HashChangeEvent) to Kotlin\n */\npublic external open class HashChangeEvent(type: String, eventInitDict: HashChangeEventInit = definedExternally) : Event {\n    open val oldURL: String\n    open val newURL: String\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface HashChangeEventInit : EventInit {\n    var oldURL: String? /* = \"\" */\n        get() = definedExternally\n        set(value) = definedExternally\n    var newURL: String? /* = \"\" */\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun HashChangeEventInit(oldURL: String? = \"\", newURL: String? = \"\",
bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): HashChangeEventInit {\n    val o = js(\"({})\")\n    o[\"oldURL\"] = oldURL\n    o[\"newURL\"] = newURL\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return o\n}\n\n/**\n * Exposes the JavaScript [PageTransitionEvent](https://developer.mozilla.org/en/docs/Web/API/PageTransitionEvent) to Kotlin\n */\npublic external open class PageTransitionEvent(type: String, eventInitDict: PageTransitionEventInit = definedExternally) : Event {\n    open val persisted: Boolean\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface PageTransitionEventInit : EventInit {\n    var persisted: Boolean? /* = false */\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic
inline fun PageTransitionEventInit(persisted: Boolean? = false, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): PageTransitionEventInit {\n    val o = js(\"({})\")\n    o[\"persisted\"] = persisted\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return o\n}\n\n/**\n * Exposes the JavaScript [BeforeUnloadEvent](https://developer.mozilla.org/en/docs/Web/API/BeforeUnloadEvent) to Kotlin\n */\npublic external open class BeforeUnloadEvent : Event {\n    var returnValue: String\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external abstract class ApplicationCache : EventTarget {\n    open val status: Short\n    open var onchecking: ((Event) -> dynamic)?\n    open var onerror: ((Event) -> dynamic)?\n    open var onnoupdate:

```
((Event) -> dynamic)?\n    open var ondownloading: ((Event) -> dynamic)?\n    open var onprogress:
((ProgressEvent) -> dynamic)?\n    open var onupdateready: ((Event) -> dynamic)?\n    open var oncached: ((Event)
-> dynamic)?\n    open var onobsolete: ((Event) -> dynamic)?\n    fun update()\n    fun abort()\n    fun
swapCache()\n\n    companion object {\n        val UNCACHED: Short\n        val IDLE: Short\n        val
CHECKING: Short\n        val DOWNLOADING: Short\n        val UPDATEREADY: Short\n        val OBSOLETE:
Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[NavigatorOnLine](https://developer.mozilla.org/en/docs/Web/API/NavigatorOnLine) to Kotlin\n */\npublic
external interface NavigatorOnLine {\n    val onLine: Boolean\n}\n\n/**\n * Exposes the JavaScript
[ErrorEvent](https://developer.mozilla.org/en/docs/Web/API/ErrorEvent) to Kotlin\n */\npublic external open class
ErrorEvent(type: String, eventInitDict: ErrorEventInit = definedExternally) : Event {\n    open val message:
String\n    open val filename: String\n    open val lineno: Int\n    open val colno: Int\n    open val error: Any?\n\n
companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET:
Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface ErrorEventInit : EventInit {\n
var message: String? /* = \"\" */\n        get() = definedExternally\n        set(value) = definedExternally\n    var
filename: String? /* = \"\" */\n        get() = definedExternally\n        set(value) = definedExternally\n    var lineno:
Int? /* = 0 */\n        get() = definedExternally\n        set(value) = definedExternally\n    var colno: Int? /* = 0 */\n
get() = definedExternally\n        set(value) = definedExternally\n    var error: Any? /* = null */\n        get() =
definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun
ErrorEventInit(message: String? = \"\", filename: String? = \"\", lineno: Int? = 0, colno: Int? = 0, error: Any? = null,
bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ErrorEventInit {\n    val o =
js(\"({})\")\n    o[\"message\"] = message\n    o[\"filename\"] = filename\n    o[\"lineno\"] = lineno\n    o[\"colno\"] =
colno\n    o[\"error\"] = error\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] =
composed\n    return o\n}\n\n/**\n * Exposes the JavaScript
[PromiseRejectionEvent](https://developer.mozilla.org/en/docs/Web/API/PromiseRejectionEvent) to Kotlin\n
*/\npublic external open class PromiseRejectionEvent(type: String, eventInitDict: PromiseRejectionEventInit) :
Event {\n    open val promise: Promise<Any?>\n    open val reason: Any?\n\n    companion object {\n        val
NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val
BUBBLING_PHASE: Short\n    }\n}\n\npublic
external interface PromiseRejectionEventInit : EventInit {\n    var promise: Promise<Any?>?\n    var reason:
Any?\n        get() = definedExternally\n        set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun PromiseRejectionEventInit(promise:
Promise<Any?>?, reason: Any? = undefined, bubbles: Boolean? = false, cancelable: Boolean? = false, composed:
Boolean? = false): PromiseRejectionEventInit {\n    val o = js(\"({})\")\n    o[\"promise\"] = promise\n
o[\"reason\"] = reason\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] =
composed\n    return o\n}\n\n/**\n * Exposes the JavaScript
[GlobalEventHandlers](https://developer.mozilla.org/en/docs/Web/API/GlobalEventHandlers) to Kotlin\n
*/\npublic external interface GlobalEventHandlers {\n    var onabort: ((Event) -> dynamic)?\n        get() =
definedExternally\n        set(value) = definedExternally\n    var
onblur: ((FocusEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var
oncancel: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var
oncanplay: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var
oncanplaythrough: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n
var onchange: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var
onclick: ((MouseEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var
onclose: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var
oncontextmenu: ((MouseEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) =
```

definedExternally\n var oncuechange: ((Event) -> dynamic)?\n get()
= definedExternally\n set(value) = definedExternally\n var ondblclick: ((MouseEvent) -> dynamic)?\n
get() = definedExternally\n set(value) = definedExternally\n var ondrag: ((DragEvent) -> dynamic)?\n
get() = definedExternally\n set(value) = definedExternally\n var ondragend: ((DragEvent) -> dynamic)?\n
get() = definedExternally\n set(value) = definedExternally\n var ondragenter: ((DragEvent) -> dynamic)?\n
get() = definedExternally\n set(value) = definedExternally\n var ondragexit: ((DragEvent) -> dynamic)?\n
get() = definedExternally\n set(value) = definedExternally\n var ondragleave: ((DragEvent) -> dynamic)?\n
get() = definedExternally\n set(value) = definedExternally\n var ondragover: ((DragEvent) -> dynamic)?\n
get() = definedExternally\n set(value) = definedExternally\n var ondragstart: ((DragEvent) -> dynamic)?\n
get() = definedExternally\n
set(value) = definedExternally\n var ondrop: ((DragEvent) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var ondurationchange: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onemptied: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onended: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n get() =
definedExternally\n set(value) = definedExternally\n var onfocus: ((FocusEvent) -> dynamic)?\n get() =
definedExternally\n set(value) = definedExternally\n var oninput: ((InputEvent) -> dynamic)?\n get() =
definedExternally\n set(value) = definedExternally\n var oninvalid: ((Event) -> dynamic)?\n get() =
definedExternally\n set(value) = definedExternally\n
var onkeydown: ((KeyboardEvent) -> dynamic)?\n get() = definedExternally\n set(value) =
definedExternally\n var onkeypress: ((KeyboardEvent) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onkeyup: ((KeyboardEvent) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onload: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onloadeddata: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onloadedmetadata: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onloadend: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onloadstart: ((ProgressEvent) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onmousedown:
((MouseEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var
onmouseenter: ((MouseEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n
var onmouseleave: ((MouseEvent) -> dynamic)?\n get() = definedExternally\n set(value) =
definedExternally\n var onmousemove: ((MouseEvent) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onmouseout: ((MouseEvent) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onmouseover: ((MouseEvent) -> dynamic)?\n get() =
definedExternally\n set(value) = definedExternally\n var onmouseup: ((MouseEvent) -> dynamic)?\n
get() = definedExternally\n set(value) = definedExternally\n var onwheel: ((WheelEvent) -> dynamic)?\n
get() = definedExternally\n set(value) = definedExternally\n var onpause: ((Event)
-> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onplay: ((Event) ->
dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onplaying: ((Event) ->
dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onprogress:
((ProgressEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var
onratechange: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var
onreset: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var
onresize: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var
onscroll: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var
onseeked: ((Event) -> dynamic)?\n get() = definedExternally\n set(value)
= definedExternally\n var onseeking: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) =
definedExternally\n var onselect: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) =

definedExternally\n    var onshow: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onstalled: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onsubmit: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onsuspend: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var ontimeupdate: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var ontoggle: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onvolumechange: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onwaiting: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var ongotpointercapture: ((PointerEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onlostpointercapture: ((PointerEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onpointerdown: ((PointerEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onpointermove: ((PointerEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onpointerup: ((PointerEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onpointercancel: ((PointerEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onpointerover: ((PointerEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onpointerout: ((PointerEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onpointerenter: ((PointerEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onpointerleave: ((PointerEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n/**\n * Exposes the JavaScript [WindowEventHandlers](https://developer.mozilla.org/en/docs/Web/API/WindowEventHandlers) to Kotlin\n */\npublic external interface WindowEventHandlers {\n    var onafterprint: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onbeforeprint: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onbeforeunload: ((BeforeUnloadEvent) -> String?)?\n        get()
= definedExternally\n        set(value) = definedExternally\n    var onhashchange: ((HashChangeEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onlanguagechange: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onmessage: ((MessageEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onoffline: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var ononline: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onpagehide: ((PageTransitionEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onpageshow: ((PageTransitionEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onpopstate: ((PopStateEvent) -> dynamic)?\n        get()
= definedExternally\n        set(value) = definedExternally\n    var onrejectionhandled: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onstorage: ((StorageEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onunhandledrejection: ((PromiseRejectionEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onunload: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\npublic external interface DocumentAndElementEventHandlers {\n    var oncopy: ((ClipboardEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var oncut: ((ClipboardEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onpaste: ((ClipboardEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n/**\n
 * Exposes the JavaScript [WindowOrWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WindowOrWorkerGlobalScope) to Kotlin\n */\npublic external interface WindowOrWorkerGlobalScope {\n    val origin: String\n    val caches:

CacheStorage\n fun btoa(data: String): String\n fun atob(data: String): String\n fun setTimeout(handler: dynamic, timeout: Int = definedExternally, vararg arguments: Any?): Int\n fun clearTimeout(handle: Int = definedExternally)\n fun setInterval(handler: dynamic, timeout: Int = definedExternally, vararg arguments: Any?): Int\n fun clearInterval(handle: Int = definedExternally)\n fun createImageBitmap(image: ImageBitmapSource, options: ImageBitmapOptions = definedExternally): Promise<ImageBitmap>\n fun createImageBitmap(image: ImageBitmapSource, sx: Int, sy: Int, sw: Int, sh: Int, options: ImageBitmapOptions = definedExternally): Promise<ImageBitmap>\n fun fetch(input: dynamic, init: RequestInit = definedExternally): Promise<Response>\n}\n\n/**\n * Exposes the JavaScript [Navigator](https://developer.mozilla.org/en/docs/Web/API/Navigator) to Kotlin\n */\npublic external abstract class Navigator : NavigatorID, NavigatorLanguage, NavigatorOnLine, NavigatorContentUtils, NavigatorCookies, NavigatorPlugins, NavigatorConcurrentHardware {\n open val clipboard: Clipboard\n open val mediaDevices: MediaDevices\n open val maxTouchPoints: Int\n open val serviceWorker: ServiceWorkerContainer\n fun requestMediaKeySystemAccess(keySystem: String, supportedConfigurations: Array<MediaKeySystemConfiguration>): Promise<MediaKeySystemAccess>\n fun getUserMedia(constraints: MediaStreamConstraints, successCallback: (MediaStream) -> Unit, errorCallback: (dynamic) -> Unit)\n fun vibrate(pattern: dynamic): Boolean\n}\n\n/**\n * Exposes the JavaScript [NavigatorID](https://developer.mozilla.org/en/docs/Web/API/NavigatorID) to Kotlin\n */\npublic external interface NavigatorID {\n val appCodeName: String\n val appName: String\n val appVersion: String\n val platform: String\n val product: String\n val productSub: String\n val userAgent: String\n val vendor: String\n val vendorSub: String\n val oscpu: String\n fun taintEnabled(): Boolean\n}\n\n/**\n * Exposes the JavaScript [NavigatorLanguage](https://developer.mozilla.org/en/docs/Web/API/NavigatorLanguage) to Kotlin\n */\npublic external interface NavigatorLanguage {\n val language: String\n val languages: Array<out String>\n}\n\npublic external interface NavigatorContentUtils {\n fun registerProtocolHandler(scheme: String, url: String, title: String)\n fun registerContentHandler(mimeType: String, url: String, title: String)\n fun isProtocolHandlerRegistered(scheme: String, url: String): String\n fun isContentHandlerRegistered(mimeType: String, url: String): String\n fun unregisterProtocolHandler(scheme: String, url: String)\n fun unregisterContentHandler(mimeType: String, url: String)\n}\n\npublic external interface NavigatorCookies {\n val cookieEnabled: Boolean\n}\n\n/**\n * Exposes the JavaScript [NavigatorPlugins](https://developer.mozilla.org/en/docs/Web/API/NavigatorPlugins) to Kotlin\n */\npublic external interface NavigatorPlugins {\n val plugins: PluginArray\n val mimeTypes: MimeTypeArray\n fun javaEnabled(): Boolean\n}\n\n/**\n * Exposes the JavaScript [PluginArray](https://developer.mozilla.org/en/docs/Web/API/PluginArray) to Kotlin\n */\npublic external abstract class PluginArray : ItemArrayLike<Plugin> {\n fun refresh(reload: Boolean = definedExternally)\n override fun item(index: Int): Plugin?\n fun namedItem(name: String): Plugin?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun PluginArray.get(index: Int): Plugin? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun PluginArray.get(name: String): Plugin? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript [MimeTypeArray](https://developer.mozilla.org/en/docs/Web/API/MimeTypeArray) to Kotlin\n */\npublic external abstract class MimeTypeArray : ItemArrayLike<MimeType> {\n override fun item(index: Int): MimeType?\n fun namedItem(name: String): MimeType?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun MimeTypeArray.get(index: Int): MimeType? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun MimeTypeArray.get(name: String): MimeType? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript [Plugin](https://developer.mozilla.org/en/docs/Web/API/Plugin) to Kotlin\n */\npublic external abstract class Plugin

: ItemArrayLike<MimeType> {\n    open val name: String\n    open val description: String\n    open val filename: String\n    override
 fun item(index: Int): MimeType?\n    fun namedItem(name: String): MimeType?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Plugin.get(index: Int): MimeType? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Plugin.get(name: String): MimeType? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript [MimeType](https://developer.mozilla.org/en/docs/Web/API/MimeType) to Kotlin\n */\npublic external abstract class MimeType {\n    open val type: String\n    open val description: String\n    open val suffixes: String\n    open val enabledPlugin: Plugin\n}\n\n/**\n * Exposes the JavaScript [ImageBitmap](https://developer.mozilla.org/en/docs/Web/API/ImageBitmap) to Kotlin\n */\npublic external abstract class ImageBitmap : CanvasImageSource, TexImageSource {\n    open val width: Int\n    open val height: Int\n    fun close()\n}\n\npublic
 external interface ImageBitmapOptions {\n    var imageOrientation: ImageOrientation? /* = ImageOrientation.NONE */\n        get() = definedExternally\n        set(value) = definedExternally\n    var premultiplyAlpha: PremultiplyAlpha? /* = PremultiplyAlpha.DEFAULT */\n        get() = definedExternally\n        set(value) = definedExternally\n    var colorSpaceConversion: ColorSpaceConversion? /* = ColorSpaceConversion.DEFAULT */\n        get() = definedExternally\n        set(value) = definedExternally\n    var resizeWidth: Int?\n        get() = definedExternally\n        set(value) = definedExternally\n    var resizeHeight: Int?\n        get() = definedExternally\n        set(value) = definedExternally\n    var resizeQuality: ResizeQuality? /* = ResizeQuality.LOW */\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ImageBitmapOptions(imageOrientation:
 ImageOrientation? = ImageOrientation.NONE, premultiplyAlpha: PremultiplyAlpha? = PremultiplyAlpha.DEFAULT, colorSpaceConversion: ColorSpaceConversion? = ColorSpaceConversion.DEFAULT, resizeWidth: Int? = undefined, resizeHeight: Int? = undefined, resizeQuality: ResizeQuality? = ResizeQuality.LOW): ImageBitmapOptions {\n    val o = js(\"({})\")\n    o[\"imageOrientation\"] = imageOrientation\n    o[\"premultiplyAlpha\"] = premultiplyAlpha\n    o[\"colorSpaceConversion\"] = colorSpaceConversion\n    o[\"resizeWidth\"] = resizeWidth\n    o[\"resizeHeight\"] = resizeHeight\n    o[\"resizeQuality\"] = resizeQuality\n    return o\n}\n\n/**\n * Exposes the JavaScript [MessageEvent](https://developer.mozilla.org/en/docs/Web/API/MessageEvent) to Kotlin\n */\npublic external open class MessageEvent(type: String, eventInitDict: MessageEventInit = definedExternally) : Event {\n    open val data: Any?\n    open val origin: String\n    open val lastEventId: String\n    open val source: UnionMessagePortOrWindowProxy?\n
    open val ports: Array<out MessagePort>\n    fun initMessageEvent(type: String, bubbles: Boolean, cancelable: Boolean, data: Any?, origin: String, lastEventId: String, source: UnionMessagePortOrWindowProxy?, ports: Array<MessagePort>)\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface MessageEventInit : EventInit {\n    var data: Any? /* = null */\n        get() = definedExternally\n        set(value) = definedExternally\n    var origin: String? /* = \"\" */\n        get() = definedExternally\n        set(value) = definedExternally\n    var lastEventId: String? /* = \"\" */\n        get() = definedExternally\n        set(value) = definedExternally\n    var source: UnionMessagePortOrWindowProxy? /* = null */\n        get() = definedExternally\n        set(value) = definedExternally\n    var ports: Array<MessagePort>? /* = arrayOf() */\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MessageEventInit(data: Any? = null,

origin: String? = \"\", lastEventId: String? = \"\", source: UnionMessagePortOrWindowProxy? = null, ports: Array<MessagePort>? = arrayOf(), bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): MessageEventInit {\n val o = js(\"({})\")\n o[\"data\"] = data\n o[\"origin\"] = origin\n o[\"lastEventId\"] = lastEventId\n o[\"source\"] = source\n o[\"ports\"] = ports\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript [EventSource](https://developer.mozilla.org/en/docs/Web/API/EventSource) to Kotlin\n */\npublic external open class EventSource(url: String, eventSourceInitDict: EventSourceInit = definedExternally) : EventTarget {\n open val url: String\n open val withCredentials: Boolean\n open val readyState: Short\n var onopen: ((Event) -> dynamic)?\n var onmessage: ((MessageEvent) -> dynamic)?\n var onerror: ((Event) -> dynamic)?\n fun close()\n\n companion object {\n val CONNECTING: Short\n val OPEN: Short\n val CLOSED: Short\n }\n}\n\npublic external interface EventSourceInit {\n var withCredentials: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun EventSourceInit(withCredentials: Boolean? = false): EventSourceInit {\n val o = js(\"({})\")\n o[\"withCredentials\"] = withCredentials\n return o\n}\n\n/**\n * Exposes the JavaScript [WebSocket](https://developer.mozilla.org/en/docs/Web/API/WebSocket) to Kotlin\n */\npublic external open class WebSocket(url: String, protocols: dynamic = definedExternally) : EventTarget {\n open val url: String\n open val readyState: Short\n open val bufferedAmount: Number\n var onopen: ((Event) -> dynamic)?\n var onerror: ((Event) -> dynamic)?\n var onclose: ((Event) -> dynamic)?\n open val extensions: String\n open val protocol: String\n var onmessage: ((MessageEvent) -> dynamic)?\n var binaryType: BinaryType\n fun close(code: Short = definedExternally, reason: String = definedExternally)\n fun send(data: String)\n fun send(data: Blob)\n fun send(data: ArrayBuffer)\n fun send(data: ArrayBufferView)\n\n companion object {\n val CONNECTING: Short\n val OPEN: Short\n val CLOSING: Short\n val CLOSED: Short\n }\n}\n\n/**\n * Exposes the JavaScript [CloseEvent](https://developer.mozilla.org/en/docs/Web/API/CloseEvent) to Kotlin\n */\npublic external open class CloseEvent(type: String, eventInitDict: CloseEventInit = definedExternally) : Event {\n open val wasClean: Boolean\n open val code: Short\n open val reason: String\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface CloseEventInit : EventInit {\n var wasClean: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var code: Short? /* = 0 */\n get() = definedExternally\n set(value) = definedExternally\n var reason: String? /* = \"\" */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun CloseEventInit(wasClean: Boolean? = false, code: Short? = 0, reason: String? = \"\", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): CloseEventInit {\n val o = js(\"({})\")\n o[\"wasClean\"] = wasClean\n o[\"code\"] = code\n o[\"reason\"] = reason\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript [MessageChannel](https://developer.mozilla.org/en/docs/Web/API/MessageChannel) to Kotlin\n */\npublic external open class MessageChannel {\n open val port1: MessagePort\n open val port2: MessagePort\n}\n\n/**\n * Exposes the JavaScript [MessagePort](https://developer.mozilla.org/en/docs/Web/API/MessagePort) to Kotlin\n */\npublic external abstract class MessagePort : EventTarget, UnionMessagePortOrWindowProxy, UnionMessagePortOrServiceWorker, UnionClientOrMessagePortOrServiceWorker {\n open var onmessage: ((MessageEvent) -> dynamic)?\n fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)\n fun start()\n fun close()\n}\n\n/**\n * Exposes the JavaScript [BroadcastChannel](https://developer.mozilla.org/en/docs/Web/API/BroadcastChannel) to Kotlin\n */\npublic external
open class BroadcastChannel(name: String) : EventTarget {\n open val name: String\n var onmessage: ((MessageEvent) -> dynamic)?\n fun postMessage(message: Any?)\n fun close()\n}\n\n/**\n * Exposes the JavaScript [WorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WorkerGlobalScope) to Kotlin\n

*/\npublic external abstract class WorkerGlobalScope : EventTarget, WindowOrWorkerGlobalScope, GlobalPerformance {\n    open val self: WorkerGlobalScope\n    open val location: WorkerLocation\n    open val navigator: WorkerNavigator\n    open var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n    open var onlanguagechange: ((Event) -> dynamic)?\n    open var onoffline: ((Event) -> dynamic)?\n    open var ononline: ((Event) -> dynamic)?\n    open var onrejectionhandled: ((Event) -> dynamic)?\n    open var onunhandledrejection: ((PromiseRejectionEvent) -> dynamic)?\n    fun importScripts(vararg urls: String)\n}\n\n/**\n * Exposes the JavaScript [DedicatedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/DedicatedWorkerGlobalScope) to Kotlin\n */\npublic external abstract class DedicatedWorkerGlobalScope : WorkerGlobalScope {\n    open var onmessage: ((MessageEvent) -> dynamic)?\n    fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)\n    fun close()\n}\n\n/**\n * Exposes the JavaScript [SharedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/SharedWorkerGlobalScope) to Kotlin\n */\npublic external abstract class SharedWorkerGlobalScope : WorkerGlobalScope {\n    open val name: String\n    open val applicationCache: ApplicationCache\n    open var onconnect: ((Event) -> dynamic)?\n    fun close()\n}\n\n/**\n * Exposes the JavaScript [AbstractWorker](https://developer.mozilla.org/en/docs/Web/API/AbstractWorker) to Kotlin\n */\npublic external interface AbstractWorker {\n    var onerror: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n/**\n * Exposes the JavaScript [Worker](https://developer.mozilla.org/en/docs/Web/API/Worker) to Kotlin\n */\npublic external open class Worker(scriptURL: String, options: WorkerOptions = definedExternally) : EventTarget, AbstractWorker {\n    var onmessage: ((MessageEvent) -> dynamic)?\n    override var onerror: ((Event) -> dynamic)?\n    fun terminate()\n    fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)\n}\n\npublic external interface WorkerOptions {\n    var type: WorkerType? /* = WorkerType.CLASSIC */\n        get() = definedExternally\n        set(value) = definedExternally\n    var credentials: RequestCredentials? /* = RequestCredentials.OMIT */\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun WorkerOptions(type: WorkerType? = WorkerType.CLASSIC, credentials: RequestCredentials? = RequestCredentials.OMIT): WorkerOptions {\n    val o = js(\"({})\")\n    o[\"type\"] = type\n    o[\"credentials\"] = credentials\n    return o\n}\n\n/**\n * Exposes the JavaScript [SharedWorker](https://developer.mozilla.org/en/docs/Web/API/SharedWorker) to Kotlin\n */\npublic external open class SharedWorker(scriptURL: String, name: String = definedExternally, options: WorkerOptions = definedExternally) : EventTarget, AbstractWorker {\n    open val port: MessagePort\n    override var onerror: ((Event) -> dynamic)?\n}\n\n/**\n * Exposes the JavaScript [NavigatorConcurrentHardware](https://developer.mozilla.org/en/docs/Web/API/NavigatorConcurrentHardware) to Kotlin\n */\npublic external interface NavigatorConcurrentHardware {\n    val hardwareConcurrency: Number\n}\n\n/**\n * Exposes the JavaScript [WorkerNavigator](https://developer.mozilla.org/en/docs/Web/API/WorkerNavigator) to Kotlin\n */\npublic external abstract class WorkerNavigator : NavigatorID, NavigatorLanguage, NavigatorOnLine, NavigatorConcurrentHardware {\n    open val serviceWorker: ServiceWorkerContainer\n}\n\n/**\n * Exposes the JavaScript [WorkerLocation](https://developer.mozilla.org/en/docs/Web/API/WorkerLocation) to Kotlin\n */\npublic external abstract class WorkerLocation {\n    open val href: String\n    open val origin: String\n    open val protocol: String\n    open val host: String\n    open val hostname: String\n    open val port: String\n    open val pathname: String\n    open val search: String\n    open val hash: String\n}\n\n/**\n * Exposes the JavaScript [Storage](https://developer.mozilla.org/en/docs/Web/API/Storage) to Kotlin\n */\npublic external abstract class Storage {\n    open val length: Int\n    fun key(index: Int): String?\n    fun removeItem(key: String)\n    fun clear()\n    fun getItem(key: String): String?\n    fun setItem(key: String, value: String)\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",

\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Storage.get(key: String): String?
 = asDynamic()[key]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Storage.set(key: String, value: String) { asDynamic()[key] = value }\n\n/**\n * Exposes the JavaScript [WindowSessionStorage](https://developer.mozilla.org/en/docs/Web/API/WindowSessionStorage) to Kotlin\n */\npublic external interface WindowSessionStorage {\n    val sessionStorage: Storage\n}\n\n/**\n * Exposes the JavaScript [WindowLocalStorage](https://developer.mozilla.org/en/docs/Web/API/WindowLocalStorage) to Kotlin\n */\npublic external interface WindowLocalStorage {\n    val localStorage: Storage\n}\n\n/**\n * Exposes the JavaScript [StorageEvent](https://developer.mozilla.org/en/docs/Web/API/StorageEvent) to Kotlin\n */\npublic external open class StorageEvent(type: String, eventInitDict: StorageEventInit = definedExternally) : Event {\n    open val key: String?\n    open val oldValue: String?\n    open val newValue: String?\n    open val url: String\n    open val storageArea: Storage?\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface StorageEventInit : EventInit {\n    var key: String? /* = null */\n        get() = definedExternally\n        set(value) = definedExternally\n    var oldValue: String? /* = null */\n        get() = definedExternally\n        set(value) = definedExternally\n    var newValue: String? /* = null */\n        get() = definedExternally\n        set(value) = definedExternally\n    var url: String? /* = \"\" */\n        get() = definedExternally\n        set(value) = definedExternally\n    var storageArea: Storage? /* = null */\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun StorageEventInit(key: String? = null, oldValue: String?
 = null, newValue: String? = null, url: String? = \"\", storageArea: Storage? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): StorageEventInit {\n    val o = js(\"({})\")\n    o[\"key\"] = key\n    o[\"oldValue\"] = oldValue\n    o[\"newValue\"] = newValue\n    o[\"url\"] = url\n    o[\"storageArea\"] = storageArea\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return o\n}\n\npublic external abstract class HTMLAppletElement : HTMLElement {\n    open var align: String\n    open var alt: String\n    open var archive: String\n    open var code: String\n    open var codeBase: String\n    open var height: String\n    open var hspace: Int\n    open var name: String\n    open var _object: String\n    open var vspace: Int\n    open var width: String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript [HTMLMarqueeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMarqueeElement) to Kotlin\n */\npublic external abstract class HTMLMarqueeElement : HTMLElement {\n    open var behavior: String\n    open var bgColor: String\n    open var direction: String\n    open var height: String\n    open var hspace: Int\n    open var loop: Int\n    open var scrollAmount: Int\n    open var scrollDelay: Int\n    open var trueSpeed: Boolean\n    open var vspace: Int\n    open var width: String\n    open var onbounce: ((Event) -> dynamic)?\n    open var onfinish: ((Event) -> dynamic)?\n    open var onstart: ((Event) -> dynamic)?\n    fun start()\n    fun stop()\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:

Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLFrameSetElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFrameSetElement) to Kotlin\n */\npublic external abstract class HTMLFrameSetElement : HTMLElement, WindowEventHandlers {\n open var cols: String\n open var rows: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING:
Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class HTMLFrameElement : HTMLElement {\n open var name: String\n open var scrolling: String\n open var src: String\n open var frameBorder: String\n open var longDesc: String\n open var noResize: Boolean\n open val contentDocument: Document?\n open val contentWindow: Window?\n open var marginHeight: String\n open var marginWidth: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE:
Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class HTMLDirectoryElement : HTMLElement {\n open var compact: Boolean\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val
DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLFontElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFontElement) to Kotlin\n */\npublic external abstract class HTMLFontElement : HTMLElement {\n open var color: String\n open var face: String\n open var size: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val

DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external interface External {\n fun AddSearchProvider()\n fun IsSearchProviderInstalled()\n}\n\npublic external interface EventInit {\n var bubbles: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var cancelable: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var composed: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun EventInit(bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): EventInit {\n val o = js(\"({})\")\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript [CustomEvent](https://developer.mozilla.org/en/docs/Web/API/CustomEvent) to Kotlin\n */\npublic external open class CustomEvent(type: String, eventInitDict: CustomEventInit = definedExternally) : Event {\n open val detail: Any?\n fun initCustomEvent(type: String, bubbles: Boolean, cancelable: Boolean, detail: Any?)\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface CustomEventInit : EventInit {\n var detail: Any? /* = null */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun CustomEventInit(detail: Any? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): CustomEventInit {\n val o = js(\"({})\")\n o[\"detail\"] = detail\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\npublic external interface EventListenerOptions {\n var capture: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun EventListenerOptions(capture: Boolean? = false): EventListenerOptions {\n val o = js(\"({})\")\n o[\"capture\"] = capture\n return o\n}\n\npublic external interface AddEventListenerOptions : EventListenerOptions {\n var passive: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var once: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun AddEventListenerOptions(passive: Boolean? = false, once: Boolean? = false, capture: Boolean? = false): AddEventListenerOptions {\n val o = js(\"({})\")\n o[\"passive\"] = passive\n o[\"once\"] = once\n o[\"capture\"] = capture\n return o\n}\n\npublic external interface NonElementParentNode {\n fun getElementById(elementId: String): Element?\n}\n\n/**\n * Exposes the JavaScript [DocumentOrShadowRoot](https://developer.mozilla.org/en/docs/Web/API/DocumentOrShadowRoot) to Kotlin\n */\npublic external interface DocumentOrShadowRoot {\n val fullscreenElement: Element?\n get() = definedExternally\n}\n\n/**\n * Exposes the JavaScript [ParentNode](https://developer.mozilla.org/en/docs/Web/API/ParentNode) to Kotlin\n */\npublic external interface ParentNode {\n val children: HTMLCollection\n val firstElementChild: Element?\n get() = definedExternally\n val lastElementChild: Element?\n get() = definedExternally\n val childElementCount: Int\n fun prepend(vararg nodes: dynamic)\n fun append(vararg nodes: dynamic)\n fun querySelector(selectors: String): Element?\n fun querySelectorAll(selectors: String): NodeList\n}\n\n/**\n * Exposes the JavaScript

```
[NonDocumentTypeChildNode](https://developer.mozilla.org/en/docs/Web/API/NonDocumentTypeChildNode) to Kotlin\n */\npublic external interface NonDocumentTypeChildNode {\n    val previousElementSibling: Element?\n        get() = definedExternally\n    val nextElementSibling: Element?\n        get() = definedExternally\n}\n\n/**\n * Exposes the JavaScript [ChildNode](https://developer.mozilla.org/en/docs/Web/API/ChildNode) to Kotlin\n */\npublic external interface ChildNode {\n    fun before(vararg nodes: dynamic)\n    fun after(vararg nodes: dynamic)\n    fun replaceWith(vararg nodes: dynamic)\n    fun remove()\n}\n\n/**\n * Exposes the JavaScript [Slotable](https://developer.mozilla.org/en/docs/Web/API/Slotable) to Kotlin\n */\npublic external interface Slotable {\n    val assignedSlot: HTMLSlotElement?\n        get() = definedExternally\n}\n\n/**\n * Exposes the JavaScript [NodeList](https://developer.mozilla.org/en/docs/Web/API/NodeList) to Kotlin\n */\npublic external abstract class NodeList : ItemArrayLike<Node> {\n    override fun item(index: Int): Node?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun NodeList.get(index: Int): Node? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript [HTMLCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLCollection) to Kotlin\n */\npublic external abstract class HTMLCollection : ItemArrayLike<Element>, UnionElementOrHTMLCollection {\n    override fun item(index: Int): Element?\n    fun namedItem(name: String): Element?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLCollection.get(index: Int): Element? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLCollection.get(name: String): Element? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript [MutationObserver](https://developer.mozilla.org/en/docs/Web/API/MutationObserver) to Kotlin\n */\npublic external open class MutationObserver(callback: (Array<MutationRecord>, MutationObserver) -> Unit) {\n    fun observe(target: Node, options: MutationObserverInit = definedExternally)\n    fun disconnect()\n    fun takeRecords(): Array<MutationRecord>\n}\n\n/**\n * Exposes the JavaScript [MutationObserverInit](https://developer.mozilla.org/en/docs/Web/API/MutationObserverInit) to Kotlin\n */\npublic external interface MutationObserverInit {\n    var childList: Boolean? /* = false */\n        get() = definedExternally\n        set(value) = definedExternally\n    var attributes: Boolean?\n        get() = definedExternally\n        set(value) = definedExternally\n    var characterData: Boolean?\n        get() = definedExternally\n        set(value) = definedExternally\n    var subtree: Boolean? /* = false */\n        get() = definedExternally\n        set(value) = definedExternally\n    var attributeOldValue: Boolean?\n        get() = definedExternally\n        set(value) = definedExternally\n    var characterDataOldValue: Boolean?\n        get() = definedExternally\n        set(value) = definedExternally\n    var attributeFilter: Array<String>?\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MutationObserverInit(childList: Boolean? = false, attributes: Boolean? = undefined, characterData: Boolean? = undefined, subtree: Boolean? = false, attributeOldValue: Boolean? = undefined, characterDataOldValue: Boolean? = undefined, attributeFilter: Array<String>? = undefined): MutationObserverInit {\n    val o = js(\"({})\")\n    o[\"childList\"] = childList\n    o[\"attributes\"] = attributes\n    o[\"characterData\"] = characterData\n    o[\"subtree\"] = subtree\n    o[\"attributeOldValue\"] = attributeOldValue\n    o[\"characterDataOldValue\"] = characterDataOldValue\n    o[\"attributeFilter\"] = attributeFilter\n    return o\n}\n\n/**\n * Exposes the JavaScript [MutationRecord](https://developer.mozilla.org/en/docs/Web/API/MutationRecord) to Kotlin\n */\npublic external abstract class MutationRecord {\n    open val type: String\n    open val target: Node\n    open val addedNodes: NodeList\n    open val removedNodes: NodeList\n    open val previousSibling: Node?\n    open val nextSibling: Node?\n    open val attributeName: String?\n    open val attributeNamespace: String?\n    open val oldValue: String?\n}\n\n/**\n * Exposes the JavaScript [Node](https://developer.mozilla.org/en/docs/Web/API/Node) to Kotlin\n */\npublic
```

external abstract class Node : EventTarget {\n open val nodeType: Short\n open val nodeName: String\n open val baseURI: String\n open val isConnected: Boolean\n open val ownerDocument: Document?\n open val parentNode: Node?\n open val parentElement: Element?\n open val childNodes: NodeList\n open val firstChild: Node?\n open val lastChild: Node?\n open val previousSibling: Node?\n open val nextSibling: Node?\n open var nodeValue: String?\n open var textContent: String?\n fun getRootNode(options: GetRootNodeOptions = definedExternally): Node\n fun hasChildNodes(): Boolean\n fun normalize()\n fun cloneNode(deep: Boolean = definedExternally): Node\n fun isEqualNode(otherNode: Node?): Boolean\n fun isSameNode(otherNode: Node?): Boolean\n fun compareDocumentPosition(other: Node): Short\n fun contains(other: Node?): Boolean\n fun lookupPrefix(namespace: String?): String?\n fun lookupNamespaceURI(prefix: String?): String?\n fun isDefaultNamespace(namespace: String?): Boolean\n fun insertBefore(node: Node, child: Node?): Node\n fun appendChild(node: Node): Node\n fun replaceChild(node: Node, child: Node): Node\n fun removeChild(child: Node): Node\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external interface GetRootNodeOptions {\n var composed: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun GetRootNodeOptions(composed: Boolean? = false): GetRootNodeOptions {\n val o = js(\"({})\")\n o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript [Document](https://developer.mozilla.org/en/docs/Web/API/Document) to Kotlin\n */\npublic external open class Document : Node, GlobalEventHandlers, DocumentAndElementEventHandlers, NonElementParentNode, DocumentOrShadowRoot, ParentNode, GeometryUtils {\n open val implementation: DOMImplementation\n open val URL: String\n open val documentURI: String\n open val origin: String\n open val compatMode: String\n open val characterSet: String\n open val charset: String\n open val inputEncoding: String\n open val contentType: String\n open val doctype: DocumentType?\n open val documentElement: Element?\n open val location: Location?\n var domain: String\n open val referrer: String\n var cookie: String\n open val lastModified: String\n open val readyState: DocumentReadyState\n var title: String\n var dir: String\n var body: HTMLElement?\n open val head: HTMLHeadElement?\n open val images: HTMLCollection\n open val embeds: HTMLCollection\n open val plugins: HTMLCollection\n open val links: HTMLCollection\n open val forms: HTMLCollection\n open val scripts: HTMLCollection\n open val currentScript: HTMLOrSVGScriptElement?\n open val defaultView: Window?\n open val activeElement: Element?\n var designMode: String\n var onreadystatechange: ((Event) -> dynamic)?\n var fgColor: String\n var linkColor: String\n var vlinkColor: String\n var alinkColor: String\n var bgColor: String\n open val anchors: HTMLCollection\n open val applets: HTMLCollection\n open val all: HTMLAllCollection\n open val scrollingElement: Element?\n open val styleSheets: StyleSheetList\n open val rootElement: SVGSVGElement?\n open val fullscreenEnabled: Boolean\n open val fullscreen: Boolean\n var onfullscreenchange: ((Event) -> dynamic)?\n var onfullscreenerror: ((Event) -> dynamic)?\n override var onabort: ((Event) -> dynamic)?\n override var onblur: ((FocusEvent) -> dynamic)?\n override var oncancel: ((Event) -> dynamic)?\n override var oncanplay: ((Event) -> dynamic)?\n override var oncanplaythrough: ((Event) -> dynamic)?\n override var onchange: ((Event) -> dynamic)?\n override var onclick: ((MouseEvent) ->

dynamic)?\n    override var onclose: ((Event) -> dynamic)?\n    override var oncontextmenu: ((MouseEvent) -> dynamic)?\n    override var oncuechange: ((Event) -> dynamic)?\n    override var ondblclick: ((MouseEvent) -> dynamic)?\n    override
var ondrag: ((DragEvent) -> dynamic)?\n    override var ondragend: ((DragEvent) -> dynamic)?\n    override var ondragenter: ((DragEvent) -> dynamic)?\n    override var ondragexit: ((DragEvent) -> dynamic)?\n    override var ondragleave: ((DragEvent) -> dynamic)?\n    override var ondragover: ((DragEvent) -> dynamic)?\n    override var ondragstart: ((DragEvent) -> dynamic)?\n    override var ondrop: ((DragEvent) -> dynamic)?\n    override var ondurationchange: ((Event) -> dynamic)?\n    override var onemptied: ((Event) -> dynamic)?\n    override var onended: ((Event) -> dynamic)?\n    override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n override var onfocus: ((FocusEvent) -> dynamic)?\n    override var oninput: ((InputEvent) -> dynamic)?\n    override var oninvalid: ((Event) -> dynamic)?\n    override var onkeydown: ((KeyboardEvent) -> dynamic)?\n    override var onkeypress: ((KeyboardEvent) -> dynamic)?\n    override var onkeyup: ((KeyboardEvent) -> dynamic)?\n
override var onload: ((Event) -> dynamic)?\n    override var onloadeddata: ((Event) -> dynamic)?\n    override var onloadedmetadata: ((Event) -> dynamic)?\n    override var onloadend: ((Event) -> dynamic)?\n    override var onloadstart: ((ProgressEvent) -> dynamic)?\n    override var onmousedown: ((MouseEvent) -> dynamic)?\n override var onmouseenter: ((MouseEvent) -> dynamic)?\n    override var onmouseleave: ((MouseEvent) -> dynamic)?\n    override var onmousemove: ((MouseEvent) -> dynamic)?\n    override var onmouseout: ((MouseEvent) -> dynamic)?\n    override var onmouseover: ((MouseEvent) -> dynamic)?\n    override var onmouseup: ((MouseEvent) -> dynamic)?\n    override var onwheel: ((WheelEvent) -> dynamic)?\n    override var onpause: ((Event) -> dynamic)?\n    override var onplay: ((Event) -> dynamic)?\n    override var onplaying: ((Event) -> dynamic)?\n    override var onprogress: ((ProgressEvent) -> dynamic)?\n    override var onratechange: ((Event) -> dynamic)?\n    override
var onreset: ((Event) -> dynamic)?\n    override var onresize: ((Event) -> dynamic)?\n    override var onscroll: ((Event) -> dynamic)?\n    override var onseeked: ((Event) -> dynamic)?\n    override var onseeking: ((Event) -> dynamic)?\n    override var onselect: ((Event) -> dynamic)?\n    override var onshow: ((Event) -> dynamic)?\n override var onstalled: ((Event) -> dynamic)?\n    override var onsubmit: ((Event) -> dynamic)?\n    override var onsuspend: ((Event) -> dynamic)?\n    override var ontimeupdate: ((Event) -> dynamic)?\n    override var ontoggle: ((Event) -> dynamic)?\n    override var onvolumechange: ((Event) -> dynamic)?\n    override var onwaiting: ((Event) -> dynamic)?\n    override var ongotpointercapture: ((PointerEvent) -> dynamic)?\n    override var onlostpointercapture: ((PointerEvent) -> dynamic)?\n    override var onpointerdown: ((PointerEvent) -> dynamic)?\n
override var onpointermove: ((PointerEvent) -> dynamic)?\n    override var onpointerup: ((PointerEvent) -> dynamic)?\n    override var onpointercancel: ((PointerEvent) -> dynamic)?\n    override var onpointerover: ((PointerEvent) -> dynamic)?\n    override var onpointerout: ((PointerEvent) -> dynamic)?\n    override var onpointerenter: ((PointerEvent) -> dynamic)?\n    override var onpointerleave: ((PointerEvent) -> dynamic)?\n override var oncopy: ((ClipboardEvent) -> dynamic)?\n    override var oncut: ((ClipboardEvent) -> dynamic)?\n override var onpaste: ((ClipboardEvent) -> dynamic)?\n    override val fullscreenElement: Element?\n    override val children: HTMLCollection\n    override val firstElementChild: Element?\n    override val lastElementChild: Element?\n    override val childElementCount: Int\n    fun getElementsByTagName(qualifiedName: String): HTMLCollection\n    fun getElementsByTagNameNS(namespace: String?, localName: String): HTMLCollection\n fun getElementsByClassName(classNames: String): HTMLCollection\n    fun createElement(localName: String, options:
ElementCreationOptions = definedExternally): Element\n    fun createElementNS(namespace: String?, qualifiedName: String, options: ElementCreationOptions = definedExternally): Element\n    fun createDocumentFragment(): DocumentFragment\n    fun createTextNode(data: String): Text\n    fun createCDATASection(data: String): CDATASection\n    fun createComment(data: String): Comment\n    fun createProcessingInstruction(target: String, data: String): ProcessingInstruction\n    fun importNode(node: Node, deep: Boolean = definedExternally): Node\n    fun adoptNode(node: Node): Node\n    fun createAttribute(localName: String): Attr\n    fun createAttributeNS(namespace: String?, qualifiedName: String):

Attr\n fun createEvent(`interface`: String): Event\n fun createRange(): Range\n fun createNodeIterator(root: Node, whatToShow: Int = definedExternally, filter: NodeFilter? = definedExternally): NodeIterator\n fun createNodeIterator(root: Node, whatToShow: Int = definedExternally,
filter: ((Node) -> Short)? = definedExternally): NodeIterator\n fun createTreeWalker(root: Node, whatToShow: Int = definedExternally, filter: NodeFilter? = definedExternally): TreeWalker\n fun createTreeWalker(root: Node, whatToShow: Int = definedExternally, filter: ((Node) -> Short)? = definedExternally): TreeWalker\n fun getElementsByName(elementName: String): NodeList\n fun open(type: String = definedExternally, replace: String = definedExternally): Document\n fun open(url: String, name: String, features: String): Window\n fun close()\n fun write(vararg text: String)\n fun writeln(vararg text: String)\n fun hasFocus(): Boolean\n fun execCommand(commandId: String, showUI: Boolean = definedExternally, value: String = definedExternally): Boolean\n fun queryCommandEnabled(commandId: String): Boolean\n fun queryCommandIndeterm(commandId: String): Boolean\n fun queryCommandState(commandId: String): Boolean\n fun queryCommandSupported(commandId: String):
Boolean\n fun queryCommandValue(commandId: String): String\n fun clear()\n fun captureEvents()\n fun releaseEvents()\n fun elementFromPoint(x: Double, y: Double): Element?\n fun elementsFromPoint(x: Double, y: Double): Array<Element>\n fun caretPositionFromPoint(x: Double, y: Double): CaretPosition?\n fun createTouch(view: Window, target: EventTarget, identifier: Int, pageX: Int, pageY: Int, screenX: Int, screenY: Int): Touch\n fun createTouchList(vararg touches: Touch): TouchList\n fun exitFullscreen(): Promise<Unit>\n override fun getElementById(elementId: String): Element?\n override fun prepend(vararg nodes: dynamic)\n override fun append(vararg nodes: dynamic)\n override fun querySelector(selectors: String): Element?\n override fun querySelectorAll(selectors: String): NodeList\n override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n override fun convertQuadFromNode(quad: dynamic, from:
dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val
DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n
}\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Document.get(name: String): dynamic = asDynamic()[name]\n\n/**\n * Exposes the JavaScript
[XMLDocument](https://developer.mozilla.org/en/docs/Web/API/XMLDocument) to Kotlin\n */\npublic external open class XMLDocument : Document {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED:
Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n

val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external interface ElementCreationOptions {\n var `is`: String?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ElementCreationOptions(`is`: String? = undefined): ElementCreationOptions {\n val o = js(\"({})\")\n o[\"is\"] = `is`\n return o\n}\n\n/**\n * Exposes the JavaScript [DOMImplementation](https://developer.mozilla.org/en/docs/Web/API/DOMImplementation) to Kotlin\n */\npublic external abstract class DOMImplementation {\n fun createDocumentType(qualifiedName: String, publicId: String, systemId: String): DocumentType\n fun createDocument(namespace: String?, qualifiedName: String, doctype: DocumentType? = definedExternally): XMLDocument\n fun createHTMLDocument(title: String = definedExternally): Document\n fun hasFeature(): Boolean\n}\n\n/**\n * Exposes the JavaScript [DocumentType](https://developer.mozilla.org/en/docs/Web/API/DocumentType) to Kotlin\n */\npublic external abstract class DocumentType : Node, ChildNode {\n open val name: String\n open val publicId: String\n open val systemId: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [DocumentFragment](https://developer.mozilla.org/en/docs/Web/API/DocumentFragment) to Kotlin\n */\npublic external open class DocumentFragment : Node, NonElementParentNode, ParentNode {\n override val children: HTMLCollection\n override val firstElementChild: Element?\n override val lastElementChild: Element?\n override val childElementCount: Int\n override fun getElementById(elementId: String): Element?\n override fun prepend(vararg nodes: dynamic)\n override fun append(vararg nodes: dynamic)\n override fun querySelector(selectors: String): Element?\n override fun querySelectorAll(selectors: String): NodeList\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [ShadowRoot](https://developer.mozilla.org/en/docs/Web/API/ShadowRoot) to Kotlin\n */\npublic external open class ShadowRoot : DocumentFragment, DocumentOrShadowRoot {\n open val mode: ShadowRootMode\n open val host: Element\n\n override val fullscreenElement: Element?\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val

DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [Element](https://developer.mozilla.org/en/docs/Web/API/Element) to Kotlin\n */\npublic external abstract class Element : Node, ParentNode, NonDocumentTypeChildNode, ChildNode, Slotable, GeometryUtils, UnionElementOrHTMLCollection, UnionElementOrRadioNodeList, UnionElementOrMouseEvent, UnionElementOrProcessingInstruction {\n open val namespaceURI: String?\n open val prefix: String?\n open val localName: String\n open val tagName: String\n open var id: String\n open var className: String\n open val classList: DOMTokenList\n open var slot: String\n open val attributes: NamedNodeMap\n open val shadowRoot: ShadowRoot?\n open var scrollTop: Double\n open var scrollLeft: Double\n open val scrollWidth: Int\n open val scrollHeight: Int\n open val clientTop: Int\n open val clientLeft: Int\n open val clientWidth: Int\n open val clientHeight: Int\n open var innerHTML: String\n open var outerHTML: String\n fun hasAttributes(): Boolean\n fun getAttributeNames(): Array<String>\n fun getAttribute(qualifiedName: String): String?\n fun getAttributeNS(namespace: String?, localName: String): String?\n fun setAttribute(qualifiedName: String, value: String)\n fun setAttributeNS(namespace: String?, qualifiedName: String, value: String)\n fun removeAttribute(qualifiedName: String)\n fun removeAttributeNS(namespace: String?, localName: String)\n fun hasAttribute(qualifiedName: String): Boolean\n fun hasAttributeNS(namespace: String?, localName: String): Boolean\n fun getAttributeNode(qualifiedName: String): Attr?\n fun getAttributeNodeNS(namespace: String?, localName: String): Attr?\n fun setAttributeNode(attr: Attr): Attr?\n fun setAttributeNodeNS(attr: Attr): Attr?\n fun removeAttributeNode(attr: Attr): Attr\n fun attachShadow(init: ShadowRootInit): ShadowRoot\n fun closest(selectors: String): Element?\n fun matches(selectors: String): Boolean\n fun webkitMatchesSelector(selectors: String): Boolean\n fun getElementsByTagName(qualifiedName: String): HTMLCollection\n fun getElementsByTagNameNS(namespace: String?, localName: String): HTMLCollection\n fun getElementsByClassName(classNames: String): HTMLCollection\n fun insertAdjacentElement(where: String, element: Element): Element?\n fun insertAdjacentText(where: String, data: String)\n fun getClientRects(): Array<DOMRect>\n fun getBoundingClientRect(): DOMRect\n fun scrollIntoView()\n fun scrollIntoView(arg: dynamic)\n fun scroll(options: ScrollToOptions = definedExternally)\n fun scroll(x: Double, y: Double)\n fun scrollTo(options: ScrollToOptions = definedExternally)\n fun scrollTo(x: Double, y: Double)\n fun scrollBy(options: ScrollToOptions = definedExternally)\n fun scrollBy(x: Double, y: Double)\n fun insertAdjacentHTML(position: String, text: String)\n fun setPointerCapture(pointerId: Int)\n fun releasePointerCapture(pointerId: Int)\n fun hasPointerCapture(pointerId: Int): Boolean\n fun requestFullscreen(): Promise<Unit>\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external interface ShadowRootInit {\n var mode: ShadowRootMode?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",

\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ShadowRootInit(mode: ShadowRootMode?): ShadowRootInit {\n    val o = js(\"({})\")\n    o[\"mode\"] = mode\n    return o\n}\n\n/**\n * Exposes the JavaScript [NamedNodeMap](https://developer.mozilla.org/en/docs/Web/API/NamedNodeMap) to Kotlin\n */\npublic external abstract class NamedNodeMap : ItemArrayLike<Attr> {\n    fun getNamedItemNS(namespace: String?, localName: String): Attr?\n    fun setNamedItem(attr: Attr): Attr?\n    fun setNamedItemNS(attr: Attr): Attr?\n    fun removeNamedItem(qualifiedName: String): Attr\n    fun removeNamedItemNS(namespace: String?, localName: String): Attr\n    override fun item(index: Int): Attr?\n    fun getNamedItem(qualifiedName: String): Attr?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun NamedNodeMap.get(index: Int): Attr? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun NamedNodeMap.get(qualifiedName: String): Attr? = asDynamic()[qualifiedName]\n\n/**\n * Exposes the JavaScript [Attr](https://developer.mozilla.org/en/docs/Web/API/Attr) to Kotlin\n */\npublic external abstract class Attr : Node {\n    open val namespaceURI: String?\n    open val prefix: String?\n    open val localName: String\n    open val name: String\n    open var value: String\n    open val ownerElement: Element?\n    open val specified: Boolean\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript [CharacterData](https://developer.mozilla.org/en/docs/Web/API/CharacterData) to Kotlin\n */\npublic external abstract class CharacterData : Node, NonDocumentTypeChildNode, ChildNode {\n    open var data: String\n    open val length: Int\n    fun substringData(offset: Int, count: Int): String\n    fun appendData(data: String)\n    fun insertData(offset: Int, data: String)\n    fun deleteData(offset: Int, count: Int)\n    fun replaceData(offset: Int, count: Int, data: String)\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript [Text](https://developer.mozilla.org/en/docs/Web/API/Text) to Kotlin\n */\npublic external open class Text(data: String = definedExternally) : CharacterData, Slotable, GeometryUtils {\n    open val wholeText: String\n    override val assignedSlot: HTMLSlotElement?\n    override val previousElementSibling: Element?\n    override val nextElementSibling: Element?\n    fun splitText(offset: Int): Text\n    override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n    override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n    override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* =

definedExternally */): DOMQuad\n override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\n override fun before(vararg nodes: dynamic)\n override fun after(vararg nodes: dynamic)\n override fun replaceWith(vararg nodes: dynamic)\n override fun remove()\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE:
Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [CDATASection](https://developer.mozilla.org/en/docs/Web/API/CDATASection) to Kotlin\n */\npublic external open class CDATASection : Text {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE:
Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [ProcessingInstruction](https://developer.mozilla.org/en/docs/Web/API/ProcessingInstruction) to Kotlin\n */\npublic external abstract class ProcessingInstruction : CharacterData, LinkStyle, UnionElementOrProcessingInstruction {\n open val target: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [Comment](https://developer.mozilla.org/en/docs/Web/API/Comment) to Kotlin\n */\npublic external open class Comment(data: String = definedExternally) : CharacterData {\n override val previousElementSibling: Element?\n override val nextElementSibling: Element?\n override fun before(vararg nodes: dynamic)\n override fun after(vararg nodes: dynamic)\n override fun replaceWith(vararg nodes: dynamic)\n override fun remove()\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n
val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n

```
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[Range](https://developer.mozilla.org/en/docs/Web/API/Range) to Kotlin\n */\npublic external open class Range {\n
  open val startContainer: Node\n    open val startOffset: Int\n    open val endContainer: Node\n    open val
endOffset: Int\n    open val collapsed: Boolean\n    open val commonAncestorContainer:
 Node\n    fun setStart(node: Node, offset: Int)\n    fun setEnd(node: Node, offset: Int)\n    fun setStartBefore(node:
Node)\n    fun setStartAfter(node: Node)\n    fun setEndBefore(node: Node)\n    fun setEndAfter(node: Node)\n
fun collapse(toStart: Boolean = definedExternally)\n    fun selectNode(node: Node)\n    fun
selectNodeContents(node: Node)\n    fun compareBoundaryPoints(how: Short, sourceRange: Range): Short\n    fun
deleteContents()\n    fun extractContents(): DocumentFragment\n    fun cloneContents(): DocumentFragment\n
fun insertNode(node: Node)\n    fun surroundContents(newParent: Node)\n    fun cloneRange(): Range\n    fun
detach()\n    fun isPointInRange(node: Node, offset: Int): Boolean\n    fun comparePoint(node: Node, offset: Int):
Short\n    fun intersectsNode(node: Node): Boolean\n    fun getClientRects(): Array<DOMRect>\n    fun
getBoundingClientRect(): DOMRect\n    fun createContextualFragment(fragment: String): DocumentFragment\n\n
companion object
 {\n        val START_TO_START: Short\n        val START_TO_END: Short\n        val END_TO_END: Short\n
val END_TO_START: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[NodeIterator](https://developer.mozilla.org/en/docs/Web/API/NodeIterator) to Kotlin\n */\npublic external abstract
class NodeIterator {\n    open val root: Node\n    open val referenceNode: Node\n    open val
pointerBeforeReferenceNode: Boolean\n    open val whatToShow: Int\n    open val filter: NodeFilter?\n    fun
nextNode(): Node?\n    fun previousNode(): Node?\n    fun detach()\n}\n\n/**\n * Exposes the JavaScript
[TreeWalker](https://developer.mozilla.org/en/docs/Web/API/TreeWalker) to Kotlin\n */\npublic external abstract
class TreeWalker {\n    open val root: Node\n    open val whatToShow: Int\n    open val filter: NodeFilter?\n    open
var currentNode: Node\n    fun parentNode(): Node?\n    fun firstChild(): Node?\n    fun lastChild(): Node?\n    fun
previousSibling(): Node?\n    fun nextSibling(): Node?\n
   fun previousNode(): Node?\n    fun nextNode(): Node?\n}\n\n/**\n * Exposes the JavaScript
[NodeFilter](https://developer.mozilla.org/en/docs/Web/API/NodeFilter) to Kotlin\n
*/\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface NodeFilter {\n
fun acceptNode(node: Node): Short\n\n    companion object {\n        val FILTER_ACCEPT: Short\n        val
FILTER_REJECT: Short\n        val FILTER_SKIP: Short\n        val SHOW_ALL: Int\n        val
SHOW_ELEMENT: Int\n        val SHOW_ATTRIBUTE: Int\n        val SHOW_TEXT: Int\n        val
SHOW_CDATA_SECTION: Int\n        val SHOW_ENTITY_REFERENCE: Int\n        val SHOW_ENTITY: Int\n
   val SHOW_PROCESSING_INSTRUCTION: Int\n        val SHOW_COMMENT: Int\n        val
SHOW_DOCUMENT: Int\n        val SHOW_DOCUMENT_TYPE: Int\n        val
SHOW_DOCUMENT_FRAGMENT: Int\n        val SHOW_NOTATION: Int\n    }\n}\n\n/**\n * Exposes the
JavaScript [DOMTokenList](https://developer.mozilla.org/en/docs/Web/API/DOMTokenList)
 to Kotlin\n */\npublic external abstract class DOMTokenList : ItemArrayLike<String> {\n    open var value:
String\n    fun contains(token: String): Boolean\n    fun add(vararg tokens: String)\n    fun remove(vararg tokens:
String)\n    fun toggle(token: String, force: Boolean = definedExternally): Boolean\n    fun replace(token: String,
newToken: String)\n    fun supports(token: String): Boolean\n    override fun item(index: Int):
String?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun DOMTokenList.get(index:
Int): String? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[DOMPointReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMPointReadOnly) to Kotlin\n */\npublic
external open class DOMPointReadOnly(x: Double, y: Double, z: Double, w: Double) {\n    open val x: Double\n
open val y: Double\n    open val z: Double\n    open val w: Double\n    fun matrixTransform(matrix:
DOMMatrixReadOnly): DOMPoint\n}\n\n/**\n
```

```
 * Exposes the JavaScript [DOMPoint](https://developer.mozilla.org/en/docs/Web/API/DOMPoint) to Kotlin\n
*/\npublic external open class DOMPoint : DOMPointReadOnly {\n    constructor(point: DOMPointInit)\n
constructor(x: Double = definedExternally, y: Double = definedExternally, z: Double = definedExternally, w:
Double = definedExternally)\n    override var x: Double\n    override var y: Double\n    override var z: Double\n
override var w: Double\n}\n\n/**\n * Exposes the JavaScript
[DOMPointInit](https://developer.mozilla.org/en/docs/Web/API/DOMPointInit) to Kotlin\n */\npublic external
interface DOMPointInit {\n    var x: Double? /* = 0.0 */\n        get() = definedExternally\n        set(value) =
definedExternally\n    var y: Double? /* = 0.0 */\n        get() = definedExternally\n        set(value) =
definedExternally\n    var z: Double? /* = 0.0 */\n        get() = definedExternally\n        set(value) =
definedExternally\n    var w: Double? /* = 1.0 */\n
        get() = definedExternally\n        set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun DOMPointInit(x: Double? = 0.0, y:
Double? = 0.0, z: Double? = 0.0, w: Double? = 1.0): DOMPointInit {\n    val o = js(\"({})\")\n    o[\"x\"] = x\n
o[\"y\"] = y\n    o[\"z\"] = z\n    o[\"w\"] = w\n    return o\n}\n\n/**\n * Exposes the JavaScript
[DOMRect](https://developer.mozilla.org/en/docs/Web/API/DOMRect) to Kotlin\n */\npublic external open class
DOMRect(x: Double = definedExternally, y: Double = definedExternally, width: Double = definedExternally,
height: Double = definedExternally) : DOMRectReadOnly {\n    override var x: Double\n    override var y: Double\n
  override var width: Double\n    override var height: Double\n}\n\n/**\n * Exposes the JavaScript
[DOMRectReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMRectReadOnly) to Kotlin\n */\npublic
external open class DOMRectReadOnly(x:
 Double, y: Double, width: Double, height: Double) {\n    open val x: Double\n    open val y: Double\n    open val
width: Double\n    open val height: Double\n    open val top: Double\n    open val right: Double\n    open val bottom:
Double\n    open val left: Double\n}\n\npublic external interface DOMRectInit {\n    var x: Double? /* = 0.0 */\n
get() = definedExternally\n        set(value) = definedExternally\n    var y: Double? /* = 0.0 */\n        get() =
definedExternally\n        set(value) = definedExternally\n    var width: Double? /* = 0.0 */\n        get() =
definedExternally\n        set(value) = definedExternally\n    var height: Double? /* = 0.0 */\n        get() =
definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun DOMRectInit(x: Double? = 0.0, y:
Double? = 0.0, width: Double? = 0.0, height: Double? = 0.0): DOMRectInit {\n    val o = js(\"({})\")\n
   o[\"x\"] = x\n    o[\"y\"] = y\n    o[\"width\"] = width\n    o[\"height\"] = height\n    return o\n}\n\npublic external
interface DOMRectList : ItemArrayLike<DOMRect> {\n    override fun item(index: Int):
DOMRect?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun DOMRectList.get(index: Int):
DOMRect? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[DOMQuad](https://developer.mozilla.org/en/docs/Web/API/DOMQuad) to Kotlin\n */\npublic external open class
DOMQuad {\n    constructor(p1: DOMPointInit = definedExternally, p2: DOMPointInit = definedExternally, p3:
DOMPointInit = definedExternally, p4: DOMPointInit = definedExternally)\n    constructor(rect: DOMRectInit)\n
open val p1: DOMPoint\n    open val p2: DOMPoint\n    open val p3: DOMPoint\n    open val p4: DOMPoint\n
open val bounds: DOMRectReadOnly\n}\n\n/**\n * Exposes the JavaScript
[DOMMatrixReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMMatrixReadOnly)
 to Kotlin\n */\npublic external open class DOMMatrixReadOnly(numberSequence: Array<Double>) {\n    open val
a: Double\n    open val b: Double\n    open val c: Double\n    open val d: Double\n    open val e: Double\n    open val
f: Double\n    open val m11: Double\n    open val m12: Double\n    open val m13: Double\n    open val m14:
Double\n    open val m21: Double\n    open val m22: Double\n    open val m23: Double\n    open val m24: Double\n
 open val m31: Double\n    open val m32: Double\n    open val m33: Double\n    open val m34: Double\n    open val
m41: Double\n    open val m42: Double\n    open val m43: Double\n    open val m44: Double\n    open val is2D:
Boolean\n    open val isIdentity: Boolean\n    fun translate(tx: Double, ty: Double, tz: Double = definedExternally):
```

DOMMatrix\n fun scale(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n fun scale3d(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix\n fun scaleNonUniform(scaleX: Double, scaleY: Double = definedExternally, scaleZ: Double = definedExternally, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix\n fun rotate(angle: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n fun rotateFromVector(x: Double, y: Double): DOMMatrix\n fun rotateAxisAngle(x: Double, y: Double, z: Double, angle: Double): DOMMatrix\n fun skewX(sx: Double): DOMMatrix\n fun skewY(sy: Double): DOMMatrix\n fun multiply(other: DOMMatrix): DOMMatrix\n fun flipX(): DOMMatrix\n fun flipY(): DOMMatrix\n fun inverse(): DOMMatrix\n fun transformPoint(point: DOMPointInit = definedExternally): DOMPoint\n fun toFloat32Array(): Float32Array\n fun toFloat64Array(): Float64Array\n}\n\n/**\n * Exposes the JavaScript [DOMMatrix](https://developer.mozilla.org/en/docs/Web/API/DOMMatrix) to Kotlin\n */\npublic external open class DOMMatrix() : DOMMatrixReadOnly {\n constructor(transformList: String)\n constructor(other: DOMMatrixReadOnly)\n constructor(array32: Float32Array)\n constructor(array64: Float64Array)\n constructor(numberSequence: Array<Double>)\n override var a: Double\n override var b: Double\n override var c: Double\n override var d: Double\n override var e: Double\n override var f: Double\n override var m11: Double\n override var m12: Double\n override var m13: Double\n override var m14: Double\n override var m21: Double\n override var m22: Double\n override var m23: Double\n override var m24: Double\n override var m31: Double\n override var m32: Double\n override var m33: Double\n override var m34: Double\n override var m41: Double\n override var m42: Double\n override var m43: Double\n override var m44: Double\n fun multiplySelf(other: DOMMatrix): DOMMatrix\n fun preMultiplySelf(other: DOMMatrix): DOMMatrix\n fun translateSelf(tx: Double, ty: Double, tz: Double = definedExternally): DOMMatrix\n fun scaleSelf(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n fun scale3dSelf(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix\n fun scaleNonUniformSelf(scaleX: Double, scaleY: Double = definedExternally, scaleZ: Double = definedExternally, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix\n fun rotateSelf(angle: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n fun rotateFromVectorSelf(x: Double, y: Double): DOMMatrix\n fun rotateAxisAngleSelf(x: Double, y: Double, z: Double, angle: Double): DOMMatrix\n fun skewXSelf(sx: Double): DOMMatrix\n fun skewYSelf(sy: Double): DOMMatrix\n fun invertSelf(): DOMMatrix\n fun setMatrixValue(transformList: String): DOMMatrix\n}\n\npublic external interface ScrollOptions {\n var behavior: ScrollBehavior? /* = ScrollBehavior.AUTO */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ScrollOptions(behavior: ScrollBehavior? = ScrollBehavior.AUTO): ScrollOptions {\n val o = js(\"({})\")\n o[\"behavior\"] = behavior\n return o\n}\n\n/**\n * Exposes the JavaScript [ScrollToOptions](https://developer.mozilla.org/en/docs/Web/API/ScrollToOptions) to Kotlin\n */\npublic external interface ScrollToOptions : ScrollOptions {\n var left: Double?\n get() = definedExternally\n set(value) = definedExternally\n var top: Double?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ScrollToOptions(left: Double? = undefined, top: Double? = undefined, behavior: ScrollBehavior? = ScrollBehavior.AUTO): ScrollToOptions {\n val o = js(\"({})\")\n o[\"left\"] = left\n o[\"top\"] = top\n o[\"behavior\"] = behavior\n return o\n}\n\n/**\n * Exposes the JavaScript [MediaQueryList](https://developer.mozilla.org/en/docs/Web/API/MediaQueryList) to Kotlin\n */\npublic external abstract class MediaQueryList : EventTarget {\n open val media: String\n open val

matches: Boolean\n    open var onchange: ((Event) -> dynamic)?\n    fun addListener(listener: EventListener?)\n    fun addListener(listener: ((Event) -> Unit)?)\n    fun removeListener(listener: EventListener?)\n    fun removeListener(listener: ((Event) -> Unit)?)\n}\n\n/**\n * Exposes the JavaScript [MediaQueryListEvent](https://developer.mozilla.org/en/docs/Web/API/MediaQueryListEvent) to Kotlin\n */\npublic
external open class MediaQueryListEvent(type: String, eventInitDict: MediaQueryListEventInit = definedExternally) : Event {\n    open val media: String\n    open val matches: Boolean\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface MediaQueryListEventInit : EventInit {\n    var media: String? /* = \"\" */\n        get() = definedExternally\n        set(value) = definedExternally\n    var matches: Boolean? /* = false */\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MediaQueryListEventInit(media: String? = \"\", matches: Boolean? = false, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): MediaQueryListEventInit {\n    val o = js(\"({})\")\n    o[\"media\"] = media\n    o[\"matches\"] = matches\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return o\n}\n\n/**\n * Exposes the JavaScript [Screen](https://developer.mozilla.org/en/docs/Web/API/Screen) to Kotlin\n */\npublic external abstract class Screen {\n    open val availWidth: Int\n    open val availHeight: Int\n    open val width: Int\n    open val height: Int\n    open val colorDepth: Int\n    open val pixelDepth: Int\n}\n\n/**\n * Exposes the JavaScript [CaretPosition](https://developer.mozilla.org/en/docs/Web/API/CaretPosition) to Kotlin\n */\npublic external abstract class CaretPosition {\n    open val offsetNode: Node\n    open val offset: Int\n    fun getClientRect(): DOMRect?\n}\n\npublic external interface ScrollIntoViewOptions : ScrollOptions {\n    var block: ScrollLogicalPosition? /* = ScrollLogicalPosition.CENTER */\n        get() = definedExternally\n        set(value) = definedExternally\n    var inline: ScrollLogicalPosition? /* = ScrollLogicalPosition.CENTER */\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ScrollIntoViewOptions(block: ScrollLogicalPosition? = ScrollLogicalPosition.CENTER, inline: ScrollLogicalPosition? = ScrollLogicalPosition.CENTER, behavior: ScrollBehavior? = ScrollBehavior.AUTO): ScrollIntoViewOptions {\n    val o = js(\"({})\")\n    o[\"block\"] = block\n    o[\"inline\"] = inline\n    o[\"behavior\"] = behavior\n    return o\n}\n\npublic external interface BoxQuadOptions {\n    var box: CSSBoxType? /* = CSSBoxType.BORDER */\n        get() = definedExternally\n        set(value) = definedExternally\n    var relativeTo: dynamic\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun BoxQuadOptions(box: CSSBoxType? = CSSBoxType.BORDER,
relativeTo: dynamic = undefined): BoxQuadOptions {\n    val o = js(\"({})\")\n    o[\"box\"] = box\n    o[\"relativeTo\"] = relativeTo\n    return o\n}\n\npublic external interface ConvertCoordinateOptions {\n    var fromBox: CSSBoxType? /* = CSSBoxType.BORDER */\n        get() = definedExternally\n        set(value) = definedExternally\n    var toBox: CSSBoxType? /* = CSSBoxType.BORDER */\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ConvertCoordinateOptions(fromBox: CSSBoxType? = CSSBoxType.BORDER, toBox: CSSBoxType? = CSSBoxType.BORDER): ConvertCoordinateOptions {\n    val o = js(\"({})\")\n    o[\"fromBox\"] = fromBox\n    o[\"toBox\"] = toBox\n    return o\n}\n\n/**\n * Exposes the JavaScript [GeometryUtils](https://developer.mozilla.org/en/docs/Web/API/GeometryUtils) to Kotlin\n */\npublic external interface GeometryUtils {\n    fun
getBoxQuads(options: BoxQuadOptions = definedExternally): Array<DOMQuad>\n    fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions = definedExternally):

DOMQuad\n    fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions = definedExternally): DOMQuad\n    fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions = definedExternally): DOMPoint\n}\n\n/**\n * Exposes the JavaScript [Touch](https://developer.mozilla.org/en/docs/Web/API/Touch) to Kotlin\n */\npublic external abstract class Touch {\n    open val identifier: Int\n    open val target: EventTarget\n    open val screenX: Int\n    open val screenY: Int\n    open val clientX: Int\n    open val clientY: Int\n    open val pageX: Int\n    open val pageY: Int\n    open val region: String?\n}\n\npublic external abstract class TouchList : ItemArrayLike<Touch> {\n    override fun item(index: Int): Touch?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun TouchList.get(index: Int): Touch? = asDynamic()[index]\n\npublic external open class TouchEvent : UIEvent {\n    open val touches: TouchList\n    open val targetTouches: TouchList\n    open val changedTouches: TouchList\n    open val altKey: Boolean\n    open val metaKey: Boolean\n    open val ctrlKey: Boolean\n    open val shiftKey: Boolean\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\n/**\n * Exposes the JavaScript [Image](https://developer.mozilla.org/en/docs/Web/API/Image) to Kotlin\n */\npublic external open class Image(width: Int = definedExternally, height: Int = definedExternally) : HTMLImageElement {\n    override var onabort: ((Event) -> dynamic)?\n    override var onblur: ((FocusEvent) -> dynamic)?\n    override var oncancel: ((Event) -> dynamic)?\n    override var oncanplay: ((Event) -> dynamic)?\n    override var oncanplaythrough: ((Event) -> dynamic)?\n    override var onchange: ((Event) -> dynamic)?\n    override var onclick: ((MouseEvent) -> dynamic)?\n    override var onclose: ((Event) -> dynamic)?\n    override var oncontextmenu: ((MouseEvent) -> dynamic)?\n    override var oncuechange: ((Event) -> dynamic)?\n    override var ondblclick: ((MouseEvent) -> dynamic)?\n    override var ondrag: ((DragEvent) -> dynamic)?\n    override var ondragend: ((DragEvent) -> dynamic)?\n    override var ondragenter: ((DragEvent) -> dynamic)?\n    override var ondragexit: ((DragEvent) -> dynamic)?\n    override var ondragleave: ((DragEvent) -> dynamic)?\n    override var ondragover: ((DragEvent) -> dynamic)?\n    override var ondragstart: ((DragEvent) -> dynamic)?\n    override var ondrop: ((DragEvent) -> dynamic)?\n    override var ondurationchange: ((Event) -> dynamic)?\n    override var onemptied: ((Event) -> dynamic)?\n    override var onended: ((Event) -> dynamic)?\n    override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n    override var onfocus: ((FocusEvent) -> dynamic)?\n    override var oninput: ((InputEvent) -> dynamic)?\n    override var oninvalid: ((Event) -> dynamic)?\n    override var onkeydown: ((KeyboardEvent) -> dynamic)?\n    override var onkeypress: ((KeyboardEvent) -> dynamic)?\n    override var onkeyup: ((KeyboardEvent) -> dynamic)?\n    override var onload: ((Event) -> dynamic)?\n    override var onloadeddata: ((Event) -> dynamic)?\n    override var onloadedmetadata: ((Event) -> dynamic)?\n    override var onloadend: ((Event) -> dynamic)?\n    override var onloadstart: ((ProgressEvent) -> dynamic)?\n    override var onmousedown: ((MouseEvent) -> dynamic)?\n    override var onmouseenter: ((MouseEvent) -> dynamic)?\n    override var onmouseleave: ((MouseEvent) -> dynamic)?\n    override var onmousemove: ((MouseEvent) -> dynamic)?\n    override var onmouseout: ((MouseEvent) -> dynamic)?\n    override var onmouseover: ((MouseEvent) -> dynamic)?\n    override var onmouseup: ((MouseEvent) -> dynamic)?\n    override var onwheel: ((WheelEvent) -> dynamic)?\n    override var onpause: ((Event) -> dynamic)?\n    override var onplay: ((Event) -> dynamic)?\n    override var onplaying: ((Event) -> dynamic)?\n    override var onprogress: ((ProgressEvent) -> dynamic)?\n    override var onratechange: ((Event) -> dynamic)?\n    override var onreset: ((Event) -> dynamic)?\n    override var onresize: ((Event) -> dynamic)?\n    override var onscroll: ((Event) -> dynamic)?\n    override var onseeked: ((Event) -> dynamic)?\n    override var onseeking: ((Event) -> dynamic)?\n    override var onselect: ((Event) -> dynamic)?\n    override var onshow: ((Event) -> dynamic)?\n    override var onstalled: ((Event) -> dynamic)?\n    override var onsubmit: ((Event) -> dynamic)?\n    override var onsuspend: ((Event) -> dynamic)?\n    override var ontimeupdate: ((Event) -> dynamic)?\n    override var ontoggle: ((Event) -> dynamic)?\n    override var onvolumechange: ((Event) -> dynamic)?\n    override var onwaiting: ((Event) -> dynamic)?\n    override var ongotpointercapture: ((PointerEvent) -> dynamic)?\n    override var

onlostpointercapture: ((PointerEvent) -> dynamic)?\n override var onpointerdown: ((PointerEvent) -> dynamic)?\n override var onpointermove: ((PointerEvent) -> dynamic)?\n override var onpointerup: ((PointerEvent) -> dynamic)?\n override var onpointercancel: ((PointerEvent) -> dynamic)?\n override var onpointerover: ((PointerEvent) -> dynamic)?\n override var onpointerout: ((PointerEvent) -> dynamic)?\n override var onpointerenter: ((PointerEvent) -> dynamic)?\n override var onpointerleave: ((PointerEvent) -> dynamic)?\n override var oncopy: ((ClipboardEvent) -> dynamic)?\n override var oncut: ((ClipboardEvent) -> dynamic)?\n override var onpaste: ((ClipboardEvent) -> dynamic)?\n override var contentEditable: String\n override val isContentEditable:
Boolean\n override val style: CSSStyleDeclaration\n override val children: HTMLCollection\n override val firstElementChild: Element?\n override val lastElementChild: Element?\n override val childElementCount: Int\n override val previousElementSibling: Element?\n override val nextElementSibling: Element?\n override val assignedSlot: HTMLSlotElement?\n override fun prepend(vararg nodes: dynamic)\n override fun append(vararg nodes: dynamic)\n override fun querySelector(selectors: String): Element?\n override fun querySelectorAll(selectors: String): NodeList\n override fun before(vararg nodes: dynamic)\n override fun after(vararg nodes: dynamic)\n override fun replaceWith(vararg nodes: dynamic)\n override fun remove()\n override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally
*/): DOMQuad\n override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY:
Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external open class Audio(src: String = definedExternally) : HTMLAudioElement {\n override var onabort: ((Event) -> dynamic)?\n override var onblur: ((FocusEvent) -> dynamic)?\n override var oncancel: ((Event) -> dynamic)?\n override var oncanplay: ((Event) -> dynamic)?\n override var oncanplaythrough: ((Event) -> dynamic)?\n override var onchange: ((Event) -> dynamic)?\n override var onclick: ((MouseEvent) -> dynamic)?\n override var onclose: ((Event) -> dynamic)?\n override var oncontextmenu: ((MouseEvent) -> dynamic)?\n override var oncuechange: ((Event) -> dynamic)?\n override var ondblclick: ((MouseEvent) -> dynamic)?\n override var ondrag: ((DragEvent) -> dynamic)?\n override var ondragend: ((DragEvent) -> dynamic)?\n override var ondragenter: ((DragEvent) -> dynamic)?\n override var ondragexit: ((DragEvent) -> dynamic)?\n override var ondragleave: ((DragEvent) -> dynamic)?\n override var ondragover: ((DragEvent) -> dynamic)?\n override var ondragstart: ((DragEvent) -> dynamic)?\n override var ondrop: ((DragEvent) -> dynamic)?\n override var ondurationchange: ((Event) -> dynamic)?\n override var onemptied: ((Event) -> dynamic)?\n override var onended: ((Event) -> dynamic)?\n override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n override var onfocus: ((FocusEvent) -> dynamic)?\n override var oninput: ((InputEvent) -> dynamic)?\n override var oninvalid: ((Event) -> dynamic)?\n override var onkeydown: ((KeyboardEvent) -> dynamic)?\n override var onkeypress: ((KeyboardEvent) -> dynamic)?\n override var onkeyup: ((KeyboardEvent) -> dynamic)?\n override var onload: ((Event) -> dynamic)?\n override var onloadeddata: ((Event) -> dynamic)?\n override var onloadedmetadata: ((Event) -> dynamic)?\n override var onloadend: ((Event) -> dynamic)?\n

```
  override var onloadstart: ((ProgressEvent) -> dynamic)?\n    override var onmousedown: ((MouseEvent) ->
dynamic)?\n    override var onmouseenter: ((MouseEvent) -> dynamic)?\n    override var onmouseleave:
((MouseEvent) -> dynamic)?\n    override var onmousemove: ((MouseEvent) -> dynamic)?\n    override var
onmouseout: ((MouseEvent) -> dynamic)?\n    override var onmouseover: ((MouseEvent) -> dynamic)?\n    override
var onmouseup: ((MouseEvent) -> dynamic)?\n    override var onwheel: ((WheelEvent) -> dynamic)?\n    override
var onpause: ((Event) -> dynamic)?\n    override var onplay: ((Event) -> dynamic)?\n    override var onplaying:
((Event) -> dynamic)?\n    override var onprogress: ((ProgressEvent) -> dynamic)?\n    override var onratechange:
((Event) -> dynamic)?\n    override var onreset: ((Event) -> dynamic)?\n    override var onresize: ((Event) ->
dynamic)?\n    override var onscroll: ((Event) -> dynamic)?\n    override var onseeked: ((Event) -> dynamic)?\n
override var onseeking:
 ((Event) -> dynamic)?\n    override var onselect: ((Event) -> dynamic)?\n    override var onshow: ((Event) ->
dynamic)?\n    override var onstalled: ((Event) -> dynamic)?\n    override var onsubmit: ((Event) -> dynamic)?\n
override var onsuspend: ((Event) -> dynamic)?\n    override var ontimeupdate: ((Event) -> dynamic)?\n    override
var ontoggle: ((Event) -> dynamic)?\n    override var onvolumechange: ((Event) -> dynamic)?\n    override var
onwaiting: ((Event) -> dynamic)?\n    override var ongotpointercapture: ((PointerEvent) -> dynamic)?\n    override
var onlostpointercapture: ((PointerEvent) -> dynamic)?\n    override var onpointerdown: ((PointerEvent) ->
dynamic)?\n    override var onpointermove: ((PointerEvent) -> dynamic)?\n    override var onpointerup:
((PointerEvent) -> dynamic)?\n    override var onpointercancel: ((PointerEvent) -> dynamic)?\n    override var
onpointerover: ((PointerEvent) -> dynamic)?\n    override var onpointerout: ((PointerEvent) -> dynamic)?\n
  override var onpointerenter: ((PointerEvent) -> dynamic)?\n    override var onpointerleave: ((PointerEvent) ->
dynamic)?\n    override var oncopy: ((ClipboardEvent) -> dynamic)?\n    override var oncut: ((ClipboardEvent) ->
dynamic)?\n    override var onpaste: ((ClipboardEvent) -> dynamic)?\n    override var contentEditable: String\n
override val isContentEditable: Boolean\n    override val style: CSSStyleDeclaration\n    override val children:
HTMLCollection\n    override val firstElementChild: Element?\n    override val lastElementChild: Element?\n
override val childElementCount: Int\n    override val previousElementSibling: Element?\n    override val
nextElementSibling: Element?\n    override val assignedSlot: HTMLSlotElement?\n    override fun prepend(vararg
nodes: dynamic)\n    override fun append(vararg nodes: dynamic)\n    override fun querySelector(selectors: String):
Element?\n    override fun querySelectorAll(selectors: String): NodeList\n    override fun before(vararg
 nodes: dynamic)\n    override fun after(vararg nodes: dynamic)\n    override fun replaceWith(vararg nodes:
dynamic)\n    override fun remove()\n    override fun getBoxQuads(options: BoxQuadOptions /* =
definedExternally */): Array<DOMQuad>\n    override fun convertQuadFromNode(quad: dynamic, from: dynamic,
options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n    override fun
convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMQuad\n    override fun convertPointFromNode(point: DOMPointInit, from: dynamic,
options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\n\n    companion object {\n        val
NETWORK_EMPTY: Short\n        val NETWORK_IDLE: Short\n        val NETWORK_LOADING: Short\n
val NETWORK_NO_SOURCE: Short\n        val HAVE_NOTHING: Short\n        val HAVE_METADATA:
Short\n        val HAVE_CURRENT_DATA: Short\n        val HAVE_FUTURE_DATA: Short\n        val
HAVE_ENOUGH_DATA:
 Short\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
    val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
```

[Option](https://developer.mozilla.org/en/docs/Web/API/Option) to Kotlin\n */\npublic external open class Option(text: String = definedExternally, value: String = definedExternally, defaultSelected: Boolean = definedExternally, selected: Boolean = definedExternally) : HTMLOptionElement {\n override var onabort: ((Event) -> dynamic)?\n override var onblur: ((FocusEvent) -> dynamic)?\n override var oncancel: ((Event) -> dynamic)?\n override var oncanplay: ((Event) -> dynamic)?\n override var oncanplaythrough: ((Event) -> dynamic)?\n override var onchange: ((Event) -> dynamic)?\n override var onclick: ((MouseEvent) -> dynamic)?\n override var onclose: ((Event) -> dynamic)?\n override var oncontextmenu: ((MouseEvent) -> dynamic)?\n override var oncuechange: ((Event) -> dynamic)?\n override var ondblclick: ((MouseEvent) -> dynamic)?\n override var ondrag: ((DragEvent) -> dynamic)?\n override var ondragend: ((DragEvent) -> dynamic)?\n override var ondragenter: ((DragEvent) -> dynamic)?\n override var ondragexit: ((DragEvent) -> dynamic)?\n override var ondragleave: ((DragEvent) -> dynamic)?\n override var ondragover: ((DragEvent) -> dynamic)?\n override var ondragstart: ((DragEvent) -> dynamic)?\n override var ondrop: ((DragEvent) -> dynamic)?\n override var ondurationchange: ((Event) -> dynamic)?\n override var onemptied: ((Event) -> dynamic)?\n override var onended: ((Event) -> dynamic)?\n override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n override var onfocus: ((FocusEvent) -> dynamic)?\n override var oninput: ((InputEvent) -> dynamic)?\n override var oninvalid: ((Event) -> dynamic)?\n override var onkeydown: ((KeyboardEvent) -> dynamic)?\n override var onkeypress: ((KeyboardEvent) -> dynamic)?\n override var onkeyup: ((KeyboardEvent) -> dynamic)?\n override var onload: ((Event) -> dynamic)?\n override var onloadeddata: ((Event) -> dynamic)?\n override var onloadedmetadata: ((Event) -> dynamic)?\n override var onloadend: ((Event) -> dynamic)?\n override var onloadstart: ((ProgressEvent) -> dynamic)?\n override var onmousedown: ((MouseEvent)
-> dynamic)?\n override var onmouseenter: ((MouseEvent) -> dynamic)?\n override var onmouseleave: ((MouseEvent) -> dynamic)?\n override var onmousemove: ((MouseEvent) -> dynamic)?\n override var onmouseout: ((MouseEvent) -> dynamic)?\n override var onmouseover: ((MouseEvent) -> dynamic)?\n override var onmouseup: ((MouseEvent) -> dynamic)?\n override var onwheel: ((WheelEvent) -> dynamic)?\n override var onpause: ((Event) -> dynamic)?\n override var onplay: ((Event) -> dynamic)?\n override var onplaying: ((Event) -> dynamic)?\n override var onprogress: ((ProgressEvent) -> dynamic)?\n override var onratechange: ((Event) -> dynamic)?\n override var onreset: ((Event) -> dynamic)?\n override var onresize: ((Event) -> dynamic)?\n override var onscroll: ((Event) -> dynamic)?\n override var onseeked: ((Event) -> dynamic)?\n override var onseeking: ((Event) -> dynamic)?\n override var onselect: ((Event) -> dynamic)?\n override var onshow: ((Event) -> dynamic)?\n override var onstalled: ((Event) -> dynamic)?\n override var onsubmit: ((Event) -> dynamic)?\n override var onsuspend: ((Event) -> dynamic)?\n override var ontimeupdate: ((Event) -> dynamic)?\n override var ontoggle: ((Event) -> dynamic)?\n override var onvolumechange: ((Event) -> dynamic)?\n override var onwaiting: ((Event) -> dynamic)?\n override var ongotpointercapture: ((PointerEvent) -> dynamic)?\n override var onlostpointercapture: ((PointerEvent) -> dynamic)?\n override var onpointerdown: ((PointerEvent) -> dynamic)?\n override var onpointermove: ((PointerEvent) -> dynamic)?\n override var onpointerup: ((PointerEvent) -> dynamic)?\n override var onpointercancel: ((PointerEvent) -> dynamic)?\n override var onpointerover: ((PointerEvent) -> dynamic)?\n override var onpointerout: ((PointerEvent) -> dynamic)?\n override var onpointerenter: ((PointerEvent) -> dynamic)?\n override var onpointerleave: ((PointerEvent) -> dynamic)?\n override var oncopy: ((ClipboardEvent) -> dynamic)?\n override var oncut: ((ClipboardEvent) -> dynamic)?\n override var onpaste: ((ClipboardEvent) -> dynamic)?\n override var contentEditable: String\n override val isContentEditable: Boolean\n override val style: CSSStyleDeclaration\n override val children: HTMLCollection\n override val firstElementChild: Element?\n override val lastElementChild: Element?\n override val childElementCount: Int\n override val previousElementSibling: Element?\n override val nextElementSibling: Element?\n override val assignedSlot: HTMLSlotElement?\n override fun prepend(vararg nodes: dynamic)\n override fun append(vararg nodes: dynamic)\n override fun querySelector(selectors: String): Element?\n override fun querySelectorAll(selectors: String): NodeList\n override fun before(vararg nodes: dynamic)\n override fun after(vararg nodes: dynamic)\n override fun

replaceWith(vararg
nodes: dynamic)\n override fun remove()\n override fun getBoxQuads(options: BoxQuadOptions /* =
definedExternally */): Array<DOMQuad>\n override fun convertQuadFromNode(quad: dynamic, from: dynamic,
options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n override fun
convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMQuad\n override fun convertPointFromNode(point: DOMPointInit, from: dynamic,
options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\n\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE:
Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n
val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY:
Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external
interface UnionElementOrHTMLCollection\n\npublic external interface UnionElementOrRadioNodeList\n\npublic
external interface UnionHTMLOptGroupElementOrHTMLOptionElement\n\npublic external interface
UnionAudioTrackOrTextTrackOrVideoTrack\n\npublic external interface UnionElementOrMouseEvent\n\npublic
external interface UnionMessagePortOrWindowProxy\n\npublic external interface MediaProvider\n\npublic
external interface RenderingContext\n\npublic external interface HTMLOrSVGImageElement :
CanvasImageSource\n\npublic external interface CanvasImageSource : ImageBitmapSource\n\npublic external
interface ImageBitmapSource\n\npublic
external interface HTMLOrSVGScriptElement\n\n/* please, don't implement this interface!
*/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface DocumentReadyState {\n companion object\n}\n\npublic inline val
DocumentReadyState.Companion.LOADING: DocumentReadyState get() =
\"loading\".asDynamic().unsafeCast<DocumentReadyState>()\n\npublic inline val
DocumentReadyState.Companion.INTERACTIVE: DocumentReadyState get() =
\"interactive\".asDynamic().unsafeCast<DocumentReadyState>()\n\npublic inline val
DocumentReadyState.Companion.COMPLETE: DocumentReadyState get() =
\"complete\".asDynamic().unsafeCast<DocumentReadyState>()\n\n/* please, don't implement this interface!
*/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface CanPlayTypeResult {\n companion object\n}\n\npublic inline val
CanPlayTypeResult.Companion.EMPTY: CanPlayTypeResult get() =
\"\".asDynamic().unsafeCast<CanPlayTypeResult>()\n\npublic
inline val CanPlayTypeResult.Companion.MAYBE: CanPlayTypeResult get() =
\"maybe\".asDynamic().unsafeCast<CanPlayTypeResult>()\n\npublic inline val
CanPlayTypeResult.Companion.PROBABLY: CanPlayTypeResult get() =
\"probably\".asDynamic().unsafeCast<CanPlayTypeResult>()\n\n/* please, don't implement this interface!
*/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface TextTrackMode {\n companion object\n}\n\npublic inline val TextTrackMode.Companion.DISABLED:
TextTrackMode get() = \"disabled\".asDynamic().unsafeCast<TextTrackMode>()\n\npublic inline val
TextTrackMode.Companion.HIDDEN: TextTrackMode get() =
\"hidden\".asDynamic().unsafeCast<TextTrackMode>()\n\npublic inline val
TextTrackMode.Companion.SHOWING: TextTrackMode get() =
\"showing\".asDynamic().unsafeCast<TextTrackMode>()\n\n/* please, don't implement this interface!
*/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external

interface
TextTrackKind {\n companion object\n}\n\npublic inline val TextTrackKind.Companion.SUBTITLES:
TextTrackKind get() = \"subtitles\".asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val
TextTrackKind.Companion.CAPTIONS: TextTrackKind get() =
\"captions\".asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val
TextTrackKind.Companion.DESCRIPTIONS: TextTrackKind get() =
\"descriptions\".asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val
TextTrackKind.Companion.CHAPTERS: TextTrackKind get() =
\"chapters\".asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val
TextTrackKind.Companion.METADATA: TextTrackKind get() =
\"metadata\".asDynamic().unsafeCast<TextTrackKind>()\n\n/* please, don't implement this interface!
*/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface SelectionMode {\n companion object\n}\n\npublic inline val SelectionMode.Companion.SELECT:
SelectionMode get() = \"select\".asDynamic().unsafeCast<SelectionMode>()\n\npublic
inline val SelectionMode.Companion.START: SelectionMode get() =
\"start\".asDynamic().unsafeCast<SelectionMode>()\n\npublic inline val SelectionMode.Companion.END:
SelectionMode get() = \"end\".asDynamic().unsafeCast<SelectionMode>()\n\npublic inline val
SelectionMode.Companion.PRESERVE: SelectionMode get() =
\"preserve\".asDynamic().unsafeCast<SelectionMode>()\n\n/* please, don't implement this interface!
*/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface CanvasFillRule {\n companion object\n}\n\npublic inline val CanvasFillRule.Companion.NONZERO:
CanvasFillRule get() = \"nonzero\".asDynamic().unsafeCast<CanvasFillRule>()\n\npublic inline val
CanvasFillRule.Companion.EVENODD: CanvasFillRule get() =
\"evenodd\".asDynamic().unsafeCast<CanvasFillRule>()\n\n/* please, don't implement this interface!
*/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface ImageSmoothingQuality
{\n companion object\n}\n\npublic inline val ImageSmoothingQuality.Companion.LOW:
ImageSmoothingQuality get() = \"low\".asDynamic().unsafeCast<ImageSmoothingQuality>()\n\npublic inline val
ImageSmoothingQuality.Companion.MEDIUM: ImageSmoothingQuality get() =
\"medium\".asDynamic().unsafeCast<ImageSmoothingQuality>()\n\npublic inline val
ImageSmoothingQuality.Companion.HIGH: ImageSmoothingQuality get() =
\"high\".asDynamic().unsafeCast<ImageSmoothingQuality>()\n\n/* please, don't implement this interface!
*/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface CanvasLineCap {\n companion object\n}\n\npublic inline val CanvasLineCap.Companion.BUTT:
CanvasLineCap get() = \"butt\".asDynamic().unsafeCast<CanvasLineCap>()\n\npublic inline val
CanvasLineCap.Companion.ROUND: CanvasLineCap get() =
\"round\".asDynamic().unsafeCast<CanvasLineCap>()\n\npublic inline val CanvasLineCap.Companion.SQUARE:
CanvasLineCap get() = \"square\".asDynamic().unsafeCast<CanvasLineCap>()\n\n/*
please, don't implement this interface!
*/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface CanvasLineJoin {\n companion object\n}\n\npublic inline val CanvasLineJoin.Companion.ROUND:
CanvasLineJoin get() = \"round\".asDynamic().unsafeCast<CanvasLineJoin>()\n\npublic inline val
CanvasLineJoin.Companion.BEVEL: CanvasLineJoin get() =
\"bevel\".asDynamic().unsafeCast<CanvasLineJoin>()\n\npublic inline val CanvasLineJoin.Companion.MITER:
CanvasLineJoin get() = \"miter\".asDynamic().unsafeCast<CanvasLineJoin>()\n\n/* please, don't implement this
interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic
external interface CanvasTextAlign {\n companion object\n}\n\npublic inline val
CanvasTextAlign.Companion.START: CanvasTextAlign get() =

\"start\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val CanvasTextAlign.Companion.END: CanvasTextAlign get()
= \"end\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val CanvasTextAlign.Companion.LEFT: CanvasTextAlign get() = \"left\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val CanvasTextAlign.Companion.RIGHT: CanvasTextAlign get() =
\"right\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val CanvasTextAlign.Companion.CENTER: CanvasTextAlign get() =
\"center\".asDynamic().unsafeCast<CanvasTextAlign>()\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface CanvasTextBaseline {\n    companion object\n}\n\npublic inline val CanvasTextBaseline.Companion.TOP: CanvasTextBaseline get() = \"top\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val CanvasTextBaseline.Companion.HANGING: CanvasTextBaseline get() =
\"hanging\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val CanvasTextBaseline.Companion.MIDDLE: CanvasTextBaseline get() =
\"middle\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val CanvasTextBaseline.Companion.ALPHABETIC: CanvasTextBaseline get() =
\"alphabetic\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val CanvasTextBaseline.Companion.IDEOGRAPHIC: CanvasTextBaseline get() =
\"ideographic\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val CanvasTextBaseline.Companion.BOTTOM: CanvasTextBaseline get() =
\"bottom\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface CanvasDirection {\n    companion object\n}\n\npublic inline val CanvasDirection.Companion.LTR: CanvasDirection get() = \"ltr\".asDynamic().unsafeCast<CanvasDirection>()\n\npublic inline val CanvasDirection.Companion.RTL: CanvasDirection get() =
\"rtl\".asDynamic().unsafeCast<CanvasDirection>()\n\npublic inline val CanvasDirection.Companion.INHERIT: CanvasDirection
get() = \"inherit\".asDynamic().unsafeCast<CanvasDirection>()\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface ScrollRestoration {\n    companion object\n}\n\npublic inline val ScrollRestoration.Companion.AUTO: ScrollRestoration get() = \"auto\".asDynamic().unsafeCast<ScrollRestoration>()\n\npublic inline val ScrollRestoration.Companion.MANUAL: ScrollRestoration get() =
\"manual\".asDynamic().unsafeCast<ScrollRestoration>()\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface ImageOrientation {\n    companion object\n}\n\npublic inline val ImageOrientation.Companion.NONE: ImageOrientation get() = \"none\".asDynamic().unsafeCast<ImageOrientation>()\n\npublic inline val ImageOrientation.Companion.FLIPY: ImageOrientation get() =
\"flipY\".asDynamic().unsafeCast<ImageOrientation>()\n\n/* please,
don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface PremultiplyAlpha {\n    companion object\n}\n\npublic inline val PremultiplyAlpha.Companion.NONE: PremultiplyAlpha get() = \"none\".asDynamic().unsafeCast<PremultiplyAlpha>()\n\npublic inline val PremultiplyAlpha.Companion.PREMULTIPLY: PremultiplyAlpha get() =
\"premultiply\".asDynamic().unsafeCast<PremultiplyAlpha>()\n\npublic inline val PremultiplyAlpha.Companion.DEFAULT: PremultiplyAlpha get() =
\"default\".asDynamic().unsafeCast<PremultiplyAlpha>()\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface ColorSpaceConversion {\n    companion object\n}\n\npublic inline val

ColorSpaceConversion.Companion.NONE: ColorSpaceConversion get() =
\"none\".asDynamic().unsafeCast<ColorSpaceConversion>()\n\npublic inline val
ColorSpaceConversion.Companion.DEFAULT: ColorSpaceConversion
get() = \"default\".asDynamic().unsafeCast<ColorSpaceConversion>()\n\n/* please, don't implement this interface!
*/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface ResizeQuality {\n companion object\n}\n\npublic inline val ResizeQuality.Companion.PIXELATED:
ResizeQuality get() = \"pixelated\".asDynamic().unsafeCast<ResizeQuality>()\n\npublic inline val
ResizeQuality.Companion.LOW: ResizeQuality get() =
\"low\".asDynamic().unsafeCast<ResizeQuality>()\n\npublic inline val ResizeQuality.Companion.MEDIUM:
ResizeQuality get() = \"medium\".asDynamic().unsafeCast<ResizeQuality>()\n\npublic inline val
ResizeQuality.Companion.HIGH: ResizeQuality get() = \"high\".asDynamic().unsafeCast<ResizeQuality>()\n\n/*
please, don't implement this interface!
*/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface BinaryType {\n companion object\n}\n\npublic inline val BinaryType.Companion.BLOB: BinaryType
get() = \"blob\".asDynamic().unsafeCast<BinaryType>()\n\npublic inline val
BinaryType.Companion.ARRAYBUFFER: BinaryType get() =
\"arraybuffer\".asDynamic().unsafeCast<BinaryType>()\n\n/* please, don't implement this interface!
*/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface WorkerType {\n companion object\n}\n\npublic inline val WorkerType.Companion.CLASSIC:
WorkerType get() = \"classic\".asDynamic().unsafeCast<WorkerType>()\n\npublic inline val
WorkerType.Companion.MODULE: WorkerType get() =
\"module\".asDynamic().unsafeCast<WorkerType>()\n\n/* please, don't implement this interface!
*/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface ShadowRootMode {\n companion object\n}\n\npublic inline val ShadowRootMode.Companion.OPEN:
ShadowRootMode get() = \"open\".asDynamic().unsafeCast<ShadowRootMode>()\n\npublic inline val
ShadowRootMode.Companion.CLOSED: ShadowRootMode get() =
\"closed\".asDynamic().unsafeCast<ShadowRootMode>()\n\n/*
please, don't implement this interface!
*/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface ScrollBehavior {\n companion object\n}\n\npublic inline val ScrollBehavior.Companion.AUTO:
ScrollBehavior get() = \"auto\".asDynamic().unsafeCast<ScrollBehavior>()\n\npublic inline val
ScrollBehavior.Companion.INSTANT: ScrollBehavior get() =
\"instant\".asDynamic().unsafeCast<ScrollBehavior>()\n\npublic inline val ScrollBehavior.Companion.SMOOTH:
ScrollBehavior get() = \"smooth\".asDynamic().unsafeCast<ScrollBehavior>()\n\n/* please, don't implement this
interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic
external interface ScrollLogicalPosition {\n companion object\n}\n\npublic inline val
ScrollLogicalPosition.Companion.START: ScrollLogicalPosition get() =
\"start\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\npublic inline val
ScrollLogicalPosition.Companion.CENTER:
ScrollLogicalPosition get() = \"center\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\npublic inline val
ScrollLogicalPosition.Companion.END: ScrollLogicalPosition get() =
\"end\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\npublic inline val
ScrollLogicalPosition.Companion.NEAREST: ScrollLogicalPosition get() =
\"nearest\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\n/* please, don't implement this interface!
*/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface CSSBoxType {\n companion object\n}\n\npublic inline val CSSBoxType.Companion.MARGIN:
CSSBoxType get() = \"margin\".asDynamic().unsafeCast<CSSBoxType>()\n\npublic inline val
CSSBoxType.Companion.BORDER: CSSBoxType get() =

\"border\".asDynamic().unsafeCast<CSSBoxType>()\n\npublic inline val CSSBoxType.Companion.PADDING: CSSBoxType get() = \"padding\".asDynamic().unsafeCast<CSSBoxType>()\n\npublic inline val CSSBoxType.Companion.CONTENT:
CSSBoxType get() = \"content\".asDynamic().unsafeCast<CSSBoxType>()","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.fetch\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.files.*\nimport org.w3c.xhr.*\n\n/**\n * Exposes the JavaScript [Headers](https://developer.mozilla.org/en/docs/Web/API/Headers) to Kotlin\n */\npublic external open class Headers(init: dynamic = definedExternally) {\n fun append(name: String, value: String)\n fun delete(name: String)\n fun get(name: String): String?\n fun has(name: String): Boolean\n fun set(name: String, value: String)\n}\n\n/**\n * Exposes the JavaScript [Body](https://developer.mozilla.org/en/docs/Web/API/Body) to Kotlin\n */\npublic external
interface Body {\n val bodyUsed: Boolean\n fun arrayBuffer(): Promise<ArrayBuffer>\n fun blob(): Promise<Blob>\n fun formData(): Promise<FormData>\n fun json(): Promise<Any?>\n fun text(): Promise<String>\n}\n\n/**\n * Exposes the JavaScript [Request](https://developer.mozilla.org/en/docs/Web/API/Request) to Kotlin\n */\npublic external open class Request(input: dynamic, init: RequestInit = definedExternally) : Body {\n open val method: String\n open val url: String\n open val headers: Headers\n open val type: RequestType\n open val destination: RequestDestination\n open val referrer: String\n open val referrerPolicy: dynamic\n open val mode: RequestMode\n open val credentials: RequestCredentials\n open val cache: RequestCache\n open val redirect: RequestRedirect\n open val integrity: String\n open val keepalive: Boolean\n override val bodyUsed: Boolean\n fun clone(): Request\n override fun arrayBuffer(): Promise<ArrayBuffer>\n override fun blob(): Promise<Blob>\n override fun formData(): Promise<FormData>\n override fun json(): Promise<Any?>\n override fun text(): Promise<String>\n}\n\npublic external interface RequestInit {\n var method: String?\n get() = definedExternally\n set(value) = definedExternally\n var headers: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var body: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var referrer: String?\n get() = definedExternally\n set(value) = definedExternally\n var referrerPolicy: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var mode: RequestMode?\n get() = definedExternally\n set(value) = definedExternally\n var credentials: RequestCredentials?\n get() = definedExternally\n set(value) = definedExternally\n var cache: RequestCache?\n get()
= definedExternally\n set(value) = definedExternally\n var redirect: RequestRedirect?\n get() = definedExternally\n set(value) = definedExternally\n var integrity: String?\n get() = definedExternally\n set(value) = definedExternally\n var keepalive: Boolean?\n get() = definedExternally\n set(value) = definedExternally\n var window: Any?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun RequestInit(method: String? = undefined, headers: dynamic = undefined, body: dynamic = undefined, referrer: String? = undefined, referrerPolicy: dynamic = undefined, mode: RequestMode? = undefined, credentials: RequestCredentials? = undefined, cache: RequestCache? = undefined, redirect: RequestRedirect? = undefined, integrity: String? = undefined, keepalive: Boolean? = undefined, window: Any? = undefined): RequestInit
{\n val o = js(\"({})\")\n o[\"method\"] = method\n o[\"headers\"] = headers\n o[\"body\"] = body\n o[\"referrer\"] = referrer\n o[\"referrerPolicy\"] = referrerPolicy\n o[\"mode\"] = mode\n o[\"credentials\"] = credentials\n o[\"cache\"] = cache\n o[\"redirect\"] = redirect\n o[\"integrity\"] = integrity\n o[\"keepalive\"] = keepalive\n o[\"window\"] = window\n return o\n}\n\n/**\n * Exposes the JavaScript [Response](https://developer.mozilla.org/en/docs/Web/API/Response) to Kotlin\n */\npublic external open class Response(body: dynamic = definedExternally, init: ResponseInit = definedExternally) : Body {\n open val type:

```
ResponseType\n    open val url: String\n    open val redirected: Boolean\n    open val status: Short\n    open val ok: Boolean\n    open val statusText: String\n    open val headers: Headers\n    open val body: dynamic\n    open val trailer: Promise<Headers>\n    override val bodyUsed: Boolean\n    fun clone(): Response\n    override fun arrayBuffer(): Promise<ArrayBuffer>\n    override fun blob(): Promise<Blob>\n    override fun formData(): Promise<FormData>\n    override fun json(): Promise<Any?>\n    override fun text(): Promise<String>\n\n    companion object {\n        fun error(): Response\n        fun redirect(url: String, status: Short = definedExternally): Response\n    }\n}\n\npublic external interface ResponseInit {\n    var status: Short? /* = 200 */\n        get() = definedExternally\n        set(value) = definedExternally\n    var statusText: String? /* = \"OK\" */\n    get() = definedExternally\n        set(value) = definedExternally\n    var headers: dynamic\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ResponseInit(status: Short? = 200, statusText: String? = \"OK\", headers: dynamic = undefined): ResponseInit {\n    val o = js(\"({})\")\n    o[\"status\"] = status\n    o[\"statusText\"] = statusText\n    o[\"headers\"] = headers\n    return o\n}\n\n/* please, don't implement this interface!
*/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface RequestType {\n    companion object\n}\n\npublic inline val RequestType.Companion.EMPTY: RequestType get() = \"\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val RequestType.Companion.AUDIO: RequestType get() = \"audio\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val RequestType.Companion.FONT: RequestType get() = \"font\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val RequestType.Companion.IMAGE: RequestType get() = \"image\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val RequestType.Companion.SCRIPT: RequestType get() = \"script\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val RequestType.Companion.STYLE: RequestType get() = \"style\".asDynamic().unsafeCast<RequestType>()\n\npublic
 inline val RequestType.Companion.TRACK: RequestType get() = \"track\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val RequestType.Companion.VIDEO: RequestType get() = \"video\".asDynamic().unsafeCast<RequestType>()\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface RequestDestination {\n    companion object\n}\n\npublic inline val RequestDestination.Companion.EMPTY: RequestDestination get() = \"\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val RequestDestination.Companion.DOCUMENT: RequestDestination get() = \"document\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val RequestDestination.Companion.EMBED: RequestDestination get() = \"embed\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val RequestDestination.Companion.FONT: RequestDestination get() = \"font\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline
 val RequestDestination.Companion.IMAGE: RequestDestination get() = \"image\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val RequestDestination.Companion.MANIFEST: RequestDestination get() = \"manifest\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val RequestDestination.Companion.MEDIA: RequestDestination get() = \"media\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val RequestDestination.Companion.OBJECT: RequestDestination get() = \"object\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val RequestDestination.Companion.REPORT: RequestDestination get() = \"report\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
```

RequestDestination.Companion.SCRIPT: RequestDestination get() =
\"script\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.SERVICEWORKER: RequestDestination get() =
\"serviceworker\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline
val RequestDestination.Companion.SHAREDWORKER: RequestDestination get() =
\"sharedworker\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.STYLE: RequestDestination get() =
\"style\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.WORKER: RequestDestination get() =
\"worker\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.XSLT: RequestDestination get() =
\"xslt\".asDynamic().unsafeCast<RequestDestination>()\n\n/* please, don't implement this interface!
*/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface RequestMode {\n    companion object\n}\n\npublic inline val RequestMode.Companion.NAVIGATE:
RequestMode get() = \"navigate\".asDynamic().unsafeCast<RequestMode>()\n\npublic inline val
RequestMode.Companion.SAME_ORIGIN: RequestMode get() = \"same-
origin\".asDynamic().unsafeCast<RequestMode>()\n\npublic
inline val RequestMode.Companion.NO_CORS: RequestMode get() = \"no-
cors\".asDynamic().unsafeCast<RequestMode>()\n\npublic inline val RequestMode.Companion.CORS:
RequestMode get() = \"cors\".asDynamic().unsafeCast<RequestMode>()\n\n/* please, don't implement this
interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic
external interface RequestCredentials {\n    companion object\n}\n\npublic inline val
RequestCredentials.Companion.OMIT: RequestCredentials get() =
\"omit\".asDynamic().unsafeCast<RequestCredentials>()\n\npublic inline val
RequestCredentials.Companion.SAME_ORIGIN: RequestCredentials get() = \"same-
origin\".asDynamic().unsafeCast<RequestCredentials>()\n\npublic inline val
RequestCredentials.Companion.INCLUDE: RequestCredentials get() =
\"include\".asDynamic().unsafeCast<RequestCredentials>()\n\n/* please, don't implement this interface!
*/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface
RequestCache {\n    companion object\n}\n\npublic inline val RequestCache.Companion.DEFAULT:
RequestCache get() = \"default\".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val
RequestCache.Companion.NO_STORE: RequestCache get() = \"no-
store\".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val RequestCache.Companion.RELOAD:
RequestCache get() = \"reload\".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val
RequestCache.Companion.NO_CACHE: RequestCache get() = \"no-
cache\".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val
RequestCache.Companion.FORCE_CACHE: RequestCache get() = \"force-
cache\".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val
RequestCache.Companion.ONLY_IF_CACHED: RequestCache get() = \"only-if-
cached\".asDynamic().unsafeCast<RequestCache>()\n\n/* please, don't implement this interface!
*/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface RequestRedirect {\n    companion object\n}\n\npublic
inline val RequestRedirect.Companion.FOLLOW: RequestRedirect get() =
\"follow\".asDynamic().unsafeCast<RequestRedirect>()\n\npublic inline val RequestRedirect.Companion.ERROR:
RequestRedirect get() = \"error\".asDynamic().unsafeCast<RequestRedirect>()\n\npublic inline val
RequestRedirect.Companion.MANUAL: RequestRedirect get() =
\"manual\".asDynamic().unsafeCast<RequestRedirect>()\n\n/* please, don't implement this interface!

*/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface ResponseType {\n    companion object\n}\n\npublic inline val ResponseType.Companion.BASIC: ResponseType get() = \"basic\".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val ResponseType.Companion.CORS: ResponseType get() = \"cors\".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val ResponseType.Companion.DEFAULT: ResponseType get() = \"default\".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val ResponseType.Companion.ERROR:
 ResponseType get() = \"error\".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val ResponseType.Companion.OPAQUE: ResponseType get() = \"opaque\".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val ResponseType.Companion.OPAQUEREDIRECT: ResponseType get() = \"opaqueredirect\".asDynamic().unsafeCast<ResponseType>()","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.mediacapture\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\n\n/**\n * Exposes the JavaScript [MediaStream](https://developer.mozilla.org/en/docs/Web/API/MediaStream) to Kotlin\n */\npublic external open class MediaStream() : EventTarget, MediaProvider {\n    constructor(stream:
 MediaStream)\n    constructor(tracks: Array<MediaStreamTrack>)\n    open val id: String\n    open val active: Boolean\n    var onaddtrack: ((MediaStreamTrackEvent) -> dynamic)?\n    var onremovetrack: ((MediaStreamTrackEvent) -> dynamic)?\n    fun getAudioTracks(): Array<MediaStreamTrack>\n    fun getVideoTracks(): Array<MediaStreamTrack>\n    fun getTracks(): Array<MediaStreamTrack>\n    fun getTrackById(trackId: String): MediaStreamTrack?\n    fun addTrack(track: MediaStreamTrack)\n    fun removeTrack(track: MediaStreamTrack)\n    fun clone(): MediaStream\n}\n\n/**\n * Exposes the JavaScript [MediaStreamTrack](https://developer.mozilla.org/en/docs/Web/API/MediaStreamTrack) to Kotlin\n */\npublic external abstract class MediaStreamTrack : EventTarget {\n    open val kind: String\n    open val id: String\n    open val label: String\n    open var enabled: Boolean\n    open val muted: Boolean\n    open var onmute: ((Event) -> dynamic)?\n    open var onunmute: ((Event) -> dynamic)?\n
 open val readyState: MediaStreamTrackState\n    open var onended: ((Event) -> dynamic)?\n    open var onoverconstrained: ((Event) -> dynamic)?\n    fun clone(): MediaStreamTrack\n    fun stop()\n    fun getCapabilities(): MediaTrackCapabilities\n    fun getConstraints(): MediaTrackConstraints\n    fun getSettings(): MediaTrackSettings\n    fun applyConstraints(constraints: MediaTrackConstraints = definedExternally): Promise<Unit>\n}\n\n/**\n * Exposes the JavaScript [MediaTrackSupportedConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaTrackSupportedConstraints) to Kotlin\n */\npublic external interface MediaTrackSupportedConstraints {\n    var width: Boolean? /* = true */\n        get() = definedExternally\n        set(value) = definedExternally\n    var height: Boolean? /* = true */\n        get() = definedExternally\n        set(value) = definedExternally\n    var aspectRatio: Boolean? /* = true */\n        get() = definedExternally\n        set(value) = definedExternally\n
    var frameRate: Boolean? /* = true */\n        get() = definedExternally\n        set(value) = definedExternally\n    var facingMode: Boolean? /* = true */\n        get() = definedExternally\n        set(value) = definedExternally\n    var resizeMode: Boolean? /* = true */\n        get() = definedExternally\n        set(value) = definedExternally\n    var volume: Boolean? /* = true */\n        get() = definedExternally\n        set(value) = definedExternally\n    var sampleRate: Boolean? /* = true */\n        get() = definedExternally\n        set(value) = definedExternally\n    var sampleSize: Boolean? /* = true */\n        get() = definedExternally\n        set(value) = definedExternally\n    var echoCancellation: Boolean? /* = true */\n        get() = definedExternally\n        set(value) = definedExternally\n    var autoGainControl: Boolean? /* = true */\n        get() = definedExternally\n        set(value) = definedExternally\n    var noiseSuppression: Boolean? /* = true */\n

```
get() = definedExternally\n set(value) = definedExternally\n var latency: Boolean? /* = true */\n
get() = definedExternally\n set(value) = definedExternally\n var channelCount: Boolean? /* = true */\n
get() = definedExternally\n set(value) = definedExternally\n var deviceId: Boolean? /* = true */\n get() =
definedExternally\n set(value) = definedExternally\n var groupId: Boolean? /* = true */\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun
MediaTrackSupportedConstraints(width: Boolean? = true, height: Boolean? = true, aspectRatio: Boolean? = true,
frameRate: Boolean? = true, facingMode: Boolean? = true, resizeMode: Boolean? = true, volume: Boolean? = true,
sampleRate: Boolean? = true, sampleSize: Boolean? = true, echoCancellation: Boolean? = true, autoGainControl:
Boolean? = true,
 noiseSuppression: Boolean? = true, latency: Boolean? = true, channelCount: Boolean? = true, deviceId: Boolean? =
true, groupId: Boolean? = true): MediaTrackSupportedConstraints {\n val o = js(\"({})\")\n o[\"width\"] =
width\n o[\"height\"] = height\n o[\"aspectRatio\"] = aspectRatio\n o[\"frameRate\"] = frameRate\n
o[\"facingMode\"] = facingMode\n o[\"resizeMode\"] = resizeMode\n o[\"volume\"] = volume\n
o[\"sampleRate\"] = sampleRate\n o[\"sampleSize\"] = sampleSize\n o[\"echoCancellation\"] =
echoCancellation\n o[\"autoGainControl\"] = autoGainControl\n o[\"noiseSuppression\"] = noiseSuppression\n
o[\"latency\"] = latency\n o[\"channelCount\"] = channelCount\n o[\"deviceId\"] = deviceId\n o[\"groupId\"] =
groupId\n return o\n}\n\npublic external interface MediaTrackCapabilities {\n var width: ULongRange?\n
get() = definedExternally\n set(value) = definedExternally\n var height: ULongRange?\n get() =
definedExternally\n
 set(value) = definedExternally\n var aspectRatio: DoubleRange?\n get() = definedExternally\n
set(value) = definedExternally\n var frameRate: DoubleRange?\n get() = definedExternally\n set(value) =
definedExternally\n var facingMode: Array<String>?\n get() = definedExternally\n set(value) =
definedExternally\n var resizeMode: Array<String>?\n get() = definedExternally\n set(value) =
definedExternally\n var volume: DoubleRange?\n get() = definedExternally\n set(value) =
definedExternally\n var sampleRate: ULongRange?\n get() = definedExternally\n set(value) =
definedExternally\n var sampleSize: ULongRange?\n get() = definedExternally\n set(value) =
definedExternally\n var echoCancellation: Array<Boolean>?\n get() = definedExternally\n set(value) =
definedExternally\n var autoGainControl: Array<Boolean>?\n get() = definedExternally\n
 set(value) = definedExternally\n var noiseSuppression: Array<Boolean>?\n get() = definedExternally\n
  set(value) = definedExternally\n var latency: DoubleRange?\n get() = definedExternally\n set(value) =
definedExternally\n var channelCount: ULongRange?\n get() = definedExternally\n set(value) =
definedExternally\n var deviceId: String?\n get() = definedExternally\n set(value) = definedExternally\n
var groupId: String?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MediaTrackCapabilities(width:
ULongRange? = undefined, height: ULongRange? = undefined, aspectRatio: DoubleRange? = undefined,
frameRate: DoubleRange? = undefined, facingMode: Array<String>? = undefined, resizeMode: Array<String>? =
undefined, volume: DoubleRange? = undefined, sampleRate: ULongRange?
 = undefined, sampleSize: ULongRange? = undefined, echoCancellation: Array<Boolean>? = undefined,
autoGainControl: Array<Boolean>? = undefined, noiseSuppression: Array<Boolean>? = undefined, latency:
DoubleRange? = undefined, channelCount: ULongRange? = undefined, deviceId: String? = undefined, groupId:
String? = undefined): MediaTrackCapabilities {\n val o = js(\"({})\")\n o[\"width\"] = width\n o[\"height\"] =
height\n o[\"aspectRatio\"] = aspectRatio\n o[\"frameRate\"] = frameRate\n o[\"facingMode\"] = facingMode\n
  o[\"resizeMode\"] = resizeMode\n o[\"volume\"] = volume\n o[\"sampleRate\"] = sampleRate\n
o[\"sampleSize\"] = sampleSize\n o[\"echoCancellation\"] = echoCancellation\n o[\"autoGainControl\"] =
autoGainControl\n o[\"noiseSuppression\"] = noiseSuppression\n o[\"latency\"] = latency\n
o[\"channelCount\"] = channelCount\n o[\"deviceId\"] = deviceId\n o[\"groupId\"] = groupId\n return
```

o\n}\n\n/**\n * Exposes the JavaScript
[MediaTrackConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaTrackConstraints) to Kotlin\n */\npublic external interface MediaTrackConstraints : MediaTrackConstraintSet {\n var advanced: Array<MediaTrackConstraintSet>?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MediaTrackConstraints(advanced: Array<MediaTrackConstraintSet>? = undefined, width: dynamic = undefined, height: dynamic = undefined, aspectRatio: dynamic = undefined, frameRate: dynamic = undefined, facingMode: dynamic = undefined, resizeMode: dynamic = undefined, volume: dynamic = undefined, sampleRate: dynamic = undefined, sampleSize: dynamic = undefined, echoCancellation: dynamic = undefined, autoGainControl: dynamic = undefined, noiseSuppression: dynamic = undefined, latency: dynamic = undefined, channelCount: dynamic = undefined, deviceId: dynamic = undefined, groupId:
dynamic = undefined): MediaTrackConstraints {\n val o = js(\"({})\")\n o[\"advanced\"] = advanced\n o[\"width\"] = width\n o[\"height\"] = height\n o[\"aspectRatio\"] = aspectRatio\n o[\"frameRate\"] = frameRate\n o[\"facingMode\"] = facingMode\n o[\"resizeMode\"] = resizeMode\n o[\"volume\"] = volume\n o[\"sampleRate\"] = sampleRate\n o[\"sampleSize\"] = sampleSize\n o[\"echoCancellation\"] = echoCancellation\n o[\"autoGainControl\"] = autoGainControl\n o[\"noiseSuppression\"] = noiseSuppression\n o[\"latency\"] = latency\n o[\"channelCount\"] = channelCount\n o[\"deviceId\"] = deviceId\n o[\"groupId\"] = groupId\n return o\n}\n\npublic external interface MediaTrackConstraintSet {\n var width: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var height: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var aspectRatio: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var frameRate: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var facingMode: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var resizeMode: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var volume: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var sampleRate: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var sampleSize: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var echoCancellation: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var autoGainControl: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var noiseSuppression: dynamic\n get() = definedExternally\n set(value) = definedExternally\n
var latency: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var channelCount: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var deviceId: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var groupId: dynamic\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MediaTrackConstraintSet(width: dynamic = undefined, height: dynamic = undefined, aspectRatio: dynamic = undefined, frameRate: dynamic = undefined, facingMode: dynamic = undefined, resizeMode: dynamic = undefined, volume: dynamic = undefined, sampleRate: dynamic = undefined, sampleSize: dynamic = undefined, echoCancellation: dynamic = undefined, autoGainControl: dynamic = undefined, noiseSuppression: dynamic = undefined, latency: dynamic = undefined, channelCount: dynamic
= undefined, deviceId: dynamic = undefined, groupId: dynamic = undefined): MediaTrackConstraintSet {\n val o = js(\"({})\")\n o[\"width\"] = width\n o[\"height\"] = height\n o[\"aspectRatio\"] = aspectRatio\n o[\"frameRate\"] = frameRate\n o[\"facingMode\"] = facingMode\n o[\"resizeMode\"] = resizeMode\n o[\"volume\"] = volume\n o[\"sampleRate\"] = sampleRate\n o[\"sampleSize\"] = sampleSize\n o[\"echoCancellation\"] = echoCancellation\n o[\"autoGainControl\"] = autoGainControl\n o[\"noiseSuppression\"] = noiseSuppression\n o[\"latency\"] = latency\n o[\"channelCount\"] = channelCount\n o[\"deviceId\"] = deviceId\n o[\"groupId\"] = groupId\n return o\n}\n\n/**\n * Exposes the JavaScript

[MediaTrackSettings](https://developer.mozilla.org/en/docs/Web/API/MediaTrackSettings) to Kotlin\n */\npublic external interface MediaTrackSettings {\n var width: Int?\n get() = definedExternally\n set(value) = definedExternally\n
var height: Int?\n get() = definedExternally\n set(value) = definedExternally\n var aspectRatio: Double?\n get() = definedExternally\n set(value) = definedExternally\n var frameRate: Double?\n get() = definedExternally\n set(value) = definedExternally\n var facingMode: String?\n get() = definedExternally\n set(value) = definedExternally\n var resizeMode: String?\n get() = definedExternally\n set(value) = definedExternally\n var volume: Double?\n get() = definedExternally\n set(value) = definedExternally\n var sampleRate: Int?\n get() = definedExternally\n set(value) = definedExternally\n var sampleSize: Int?\n get() = definedExternally\n set(value) = definedExternally\n var echoCancellation: Boolean?\n get() = definedExternally\n set(value) = definedExternally\n var autoGainControl: Boolean?\n get() = definedExternally\n
set(value) = definedExternally\n var noiseSuppression: Boolean?\n get() = definedExternally\n set(value) = definedExternally\n var latency: Double?\n get() = definedExternally\n set(value) = definedExternally\n var channelCount: Int?\n get() = definedExternally\n set(value) = definedExternally\n var deviceId: String?\n get() = definedExternally\n set(value) = definedExternally\n var groupId: String?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MediaTrackSettings(width: Int? = undefined, height: Int? = undefined, aspectRatio: Double? = undefined, frameRate: Double? = undefined, facingMode: String? = undefined, resizeMode: String? = undefined, volume: Double? = undefined, sampleRate: Int? = undefined, sampleSize: Int? = undefined, echoCancellation: Boolean? = undefined, autoGainControl: Boolean? = undefined, noiseSuppression: Boolean? = undefined, latency: Double? = undefined, channelCount: Int? = undefined, deviceId: String? = undefined, groupId: String? = undefined): MediaTrackSettings {\n val o = js(\"({})\")\n o[\"width\"] = width\n o[\"height\"] = height\n o[\"aspectRatio\"] = aspectRatio\n o[\"frameRate\"] = frameRate\n o[\"facingMode\"] = facingMode\n o[\"resizeMode\"] = resizeMode\n o[\"volume\"] = volume\n o[\"sampleRate\"] = sampleRate\n o[\"sampleSize\"] = sampleSize\n o[\"echoCancellation\"] = echoCancellation\n o[\"autoGainControl\"] = autoGainControl\n o[\"noiseSuppression\"] = noiseSuppression\n o[\"latency\"] = latency\n o[\"channelCount\"] = channelCount\n o[\"deviceId\"] = deviceId\n o[\"groupId\"] = groupId\n return o\n}\n\n/**\n * Exposes the JavaScript [MediaStreamTrackEvent](https://developer.mozilla.org/en/docs/Web/API/MediaStreamTrackEvent) to Kotlin\n */\npublic external open class
MediaStreamTrackEvent(type: String, eventInitDict: MediaStreamTrackEventInit) : Event {\n open val track: MediaStreamTrack\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface MediaStreamTrackEventInit : EventInit {\n var track: MediaStreamTrack?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MediaStreamTrackEventInit(track: MediaStreamTrack?, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): MediaStreamTrackEventInit {\n val o = js(\"({})\")\n o[\"track\"] = track\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\npublic external open class OverconstrainedErrorEvent(type: String, eventInitDict: OverconstrainedErrorEventInit) : Event {\n open val error: dynamic\n\n
companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface OverconstrainedErrorEventInit : EventInit {\n var error: dynamic /* = null */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun OverconstrainedErrorEventInit(error:

dynamic = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): OverconstrainedErrorEventInit {\n val o = js(\"({})\")\n o[\"error\"] = error\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript [MediaDevices](https://developer.mozilla.org/en/docs/Web/API/MediaDevices) to Kotlin\n */\npublic external abstract class MediaDevices : EventTarget {\n open var ondevicechange: ((Event) -> dynamic)?\n fun enumerateDevices(): Promise<Array<MediaDeviceInfo>>\n fun getSupportedConstraints(): MediaTrackSupportedConstraints\n fun getUserMedia(constraints: MediaStreamConstraints = definedExternally): Promise<MediaStream>\n}\n\n/**\n * Exposes the JavaScript [MediaDeviceInfo](https://developer.mozilla.org/en/docs/Web/API/MediaDeviceInfo) to Kotlin\n */\npublic external abstract class MediaDeviceInfo {\n open val deviceId: String\n open val kind: MediaDeviceKind\n open val label: String\n open val groupId: String\n fun toJSON(): dynamic\n}\n\npublic external abstract class InputDeviceInfo : MediaDeviceInfo {\n fun getCapabilities(): MediaTrackCapabilities\n}\n\n/**\n * Exposes the JavaScript [MediaStreamConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaStreamConstraints) to Kotlin\n */\npublic external interface MediaStreamConstraints {\n var video: dynamic /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var audio: dynamic /* = false */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MediaStreamConstraints(video: dynamic = false, audio: dynamic = false): MediaStreamConstraints {\n val o = js(\"({})\")\n o[\"video\"] = video\n o[\"audio\"] = audio\n return o\n}\n\npublic external interface ConstrainablePattern {\n var onoverconstrained: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n fun getCapabilities(): Capabilities\n fun getConstraints(): Constraints\n fun getSettings(): Settings\n fun applyConstraints(constraints: Constraints = definedExternally): Promise<Unit>\n}\n\n/**\n * Exposes the JavaScript [DoubleRange](https://developer.mozilla.org/en/docs/Web/API/DoubleRange) to Kotlin\n */\npublic external interface DoubleRange {\n var max: Double?\n get() = definedExternally\n set(value) = definedExternally\n var min: Double?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleRange(max: Double? = undefined, min: Double? = undefined): DoubleRange {\n val o = js(\"({})\")\n o[\"max\"] = max\n o[\"min\"] = min\n return o\n}\n\npublic external interface ConstrainDoubleRange : DoubleRange {\n var exact: Double?\n get() = definedExternally\n set(value) = definedExternally\n var ideal: Double?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ConstrainDoubleRange(exact: Double? = undefined, ideal: Double? = undefined, max: Double? = undefined, min: Double? = undefined): ConstrainDoubleRange {\n val o = js(\"({})\")\n o[\"exact\"] = exact\n o[\"ideal\"] = ideal\n o[\"max\"] = max\n o[\"min\"] = min\n return o\n}\n\npublic external interface ULongRange {\n var max: Int?\n get() = definedExternally\n set(value) = definedExternally\n var min: Int?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ULongRange(max: Int? = undefined, min: Int? = undefined): ULongRange {\n val o = js(\"({})\")\n o[\"max\"] = max\n o[\"min\"] = min\n return o\n}\n\npublic external interface ConstrainULongRange : ULongRange {\n var exact: Int?\n get() = definedExternally\n set(value) = definedExternally\n var ideal: Int?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ConstrainULongRange(exact: Int? = undefined, ideal: Int? = undefined, max: Int? = undefined, min: Int? = undefined): ConstrainULongRange {\n val o = js(\"({})\")\n o[\"exact\"] = exact\n o[\"ideal\"] = ideal\n o[\"max\"] = max\n o[\"min\"] = min\n return o\n}\n\n/**\n * Exposes the JavaScript

[ConstrainBooleanParameters](https://developer.mozilla.org/en/docs/Web/API/ConstrainBooleanParameters) to Kotlin\n */\npublic external interface ConstrainBooleanParameters {\n var exact: Boolean?\n get() = definedExternally\n set(value) = definedExternally\n var ideal: Boolean?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ConstrainBooleanParameters(exact: Boolean? = undefined, ideal: Boolean? = undefined): ConstrainBooleanParameters {\n val o = js(\"({})\")\n o[\"exact\"] = exact\n o[\"ideal\"] = ideal\n return o\n}\n\n/**\n * Exposes the JavaScript [ConstrainDOMStringParameters](https://developer.mozilla.org/en/docs/Web/API/ConstrainDOMStringParameters) to Kotlin\n */\npublic external interface ConstrainDOMStringParameters {\n var exact: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var ideal: dynamic\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ConstrainDOMStringParameters(exact: dynamic = undefined, ideal: dynamic = undefined): ConstrainDOMStringParameters {\n val o = js(\"({})\")\n o[\"exact\"] = exact\n o[\"ideal\"] = ideal\n return o\n}\n\npublic external interface Capabilities\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun Capabilities(): Capabilities {\n val o = js(\"({})\")\n return o\n}\n\npublic external interface Settings\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun Settings(): Settings {\n val o = js(\"({})\")\n return o\n}\n\npublic external interface ConstraintSet\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ConstraintSet(): ConstraintSet {\n val o = js(\"({})\")\n return o\n}\n\npublic external interface Constraints : ConstraintSet {\n var advanced: Array<ConstraintSet>?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun Constraints(advanced: Array<ConstraintSet>? = undefined): Constraints {\n val o = js(\"({})\")\n o[\"advanced\"] = advanced\n return o\n}\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface MediaStreamTrackState {\n
    companion object\n}\n\npublic inline val MediaStreamTrackState.Companion.LIVE: MediaStreamTrackState get() = \"live\".asDynamic().unsafeCast<MediaStreamTrackState>()\n\npublic inline val MediaStreamTrackState.Companion.ENDED: MediaStreamTrackState get() = \"ended\".asDynamic().unsafeCast<MediaStreamTrackState>()\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface VideoFacingModeEnum {\n companion object\n}\n\npublic inline val VideoFacingModeEnum.Companion.USER: VideoFacingModeEnum get() = \"user\".asDynamic().unsafeCast<VideoFacingModeEnum>()\n\npublic inline val VideoFacingModeEnum.Companion.ENVIRONMENT: VideoFacingModeEnum get() = \"environment\".asDynamic().unsafeCast<VideoFacingModeEnum>()\n\npublic inline val VideoFacingModeEnum.Companion.LEFT: VideoFacingModeEnum get() = \"left\".asDynamic().unsafeCast<VideoFacingModeEnum>()\n\npublic inline val VideoFacingModeEnum.Companion.RIGHT:
 VideoFacingModeEnum get() = \"right\".asDynamic().unsafeCast<VideoFacingModeEnum>()\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface VideoResizeModeEnum {\n companion object\n}\n\npublic inline val VideoResizeModeEnum.Companion.NONE: VideoResizeModeEnum get() = \"none\".asDynamic().unsafeCast<VideoResizeModeEnum>()\n\npublic inline val

VideoResizeModeEnum.Companion.CROP_AND_SCALE: VideoResizeModeEnum get() = \"crop-and-scale\".asDynamic().unsafeCast<VideoResizeModeEnum>()\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface MediaDeviceKind {\n companion object\n}\n\npublic inline val MediaDeviceKind.Companion.AUDIOINPUT: MediaDeviceKind get() = \"audioinput\".asDynamic().unsafeCast<MediaDeviceKind>()\n\npublic inline val MediaDeviceKind.Companion.AUDIOOUTPUT: MediaDeviceKind get() = \"audiooutput\".asDynamic().unsafeCast<MediaDeviceKind>()\n\npublic inline val MediaDeviceKind.Companion.VIDEOINPUT: MediaDeviceKind get() = \"videoinput\".asDynamic().unsafeCast<MediaDeviceKind>()","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.mediasource\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\n\n/**\n * Exposes the JavaScript [MediaSource](https://developer.mozilla.org/en/docs/Web/API/MediaSource) to Kotlin\n */\npublic external open class MediaSource : EventTarget, MediaProvider {\n open val sourceBuffers: SourceBufferList\n open val activeSourceBuffers: SourceBufferList\n open val readyState: ReadyState\n var duration: Double\n var onsourceopen: ((Event) -> dynamic)?\n var onsourceended: ((Event) -> dynamic)?\n var onsourceclose: ((Event) -> dynamic)?\n fun addSourceBuffer(type: String): SourceBuffer\n fun removeSourceBuffer(sourceBuffer: SourceBuffer)\n fun endOfStream(error: EndOfStreamError = definedExternally)\n fun setLiveSeekableRange(start: Double, end: Double)\n fun clearLiveSeekableRange()\n\n companion object {\n fun isTypeSupported(type: String): Boolean\n }\n}\n\n/**\n * Exposes the JavaScript [SourceBuffer](https://developer.mozilla.org/en/docs/Web/API/SourceBuffer) to Kotlin\n */\npublic external abstract class SourceBuffer : EventTarget {\n open var mode: AppendMode\n open val updating: Boolean\n open val buffered: TimeRanges\n open var timestampOffset: Double\n open val audioTracks: AudioTrackList\n open val videoTracks: VideoTrackList\n open val textTracks: TextTrackList\n open var appendWindowStart: Double\n open var appendWindowEnd: Double\n open var onupdatestart: ((Event) -> dynamic)?\n open var onupdate: ((Event) -> dynamic)?\n open var onupdateend: ((Event) -> dynamic)?\n open var onerror: ((Event) -> dynamic)?\n open var onabort: ((Event) -> dynamic)?\n fun appendBuffer(data: dynamic)\n fun abort()\n fun remove(start: Double, end: Double)\n}\n\n/**\n * Exposes the JavaScript [SourceBufferList](https://developer.mozilla.org/en/docs/Web/API/SourceBufferList) to Kotlin\n */\npublic external abstract class SourceBufferList : EventTarget {\n open val length: Int\n open var onaddsourcebuffer: ((Event) -> dynamic)?\n open var onremovesourcebuffer: ((Event) -> dynamic)?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SourceBufferList.get(index: Int): SourceBuffer? = asDynamic()[index]\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface ReadyState {\n companion object\n}\n\npublic inline val ReadyState.Companion.CLOSED: ReadyState get() = \"closed\".asDynamic().unsafeCast<ReadyState>()\n\npublic inline val ReadyState.Companion.OPEN: ReadyState get() = \"open\".asDynamic().unsafeCast<ReadyState>()\n\npublic inline val ReadyState.Companion.ENDED: ReadyState get() = \"ended\".asDynamic().unsafeCast<ReadyState>()\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface EndOfStreamError {\n companion object\n}\n\npublic inline val EndOfStreamError.Companion.NETWORK: EndOfStreamError get() = \"network\".asDynamic().unsafeCast<EndOfStreamError>()\n\npublic inline val

EndOfStreamError.Companion.DECODE: EndOfStreamError get() = \"decode\".asDynamic().unsafeCast<EndOfStreamError>()\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface AppendMode {\n companion object\n}\n\npublic inline val AppendMode.Companion.SEGMENTS: AppendMode get() = \"segments\".asDynamic().unsafeCast<AppendMode>()\n\npublic inline val AppendMode.Companion.SEQUENCE: AppendMode get() = \"sequence\".asDynamic().unsafeCast<AppendMode>()","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.pointerevents\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\n\npublic external interface PointerEventInit : MouseEventInit {\n var pointerId: Int? /* = 0 */\n get() = definedExternally\n set(value) = definedExternally\n var width: Double? /* = 1.0 */\n get() = definedExternally\n set(value) = definedExternally\n var height: Double? /* = 1.0 */\n get() = definedExternally\n set(value) = definedExternally\n var pressure: Float? /* = 0f */\n get() = definedExternally\n set(value) = definedExternally\n var tangentialPressure: Float? /* = 0f */\n get() = definedExternally\n set(value) = definedExternally\n var tiltX: Int? /* = 0 */\n get() = definedExternally\n set(value) = definedExternally\n var tiltY: Int? /* = 0 */\n get() = definedExternally\n set(value) = definedExternally\n var twist: Int? /* = 0 */\n get() = definedExternally\n set(value) = definedExternally\n var pointerType: String? /* = \"\" */\n get() = definedExternally\n set(value) = definedExternally\n var isPrimary: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun PointerEventInit(pointerId: Int? = 0, width: Double? = 1.0, height: Double? = 1.0, pressure: Float? = 0f, tangentialPressure: Float? = 0f, tiltX: Int? = 0, tiltY: Int? = 0, twist: Int? = 0, pointerType: String? = \"\", isPrimary: Boolean? = false, screenX: Int? = 0, screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget: EventTarget? = null, region: String? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): PointerEventInit {\n val o = js(\"({})\")\n o[\"pointerId\"] = pointerId\n o[\"width\"] = width\n o[\"height\"] = height\n o[\"pressure\"] = pressure\n o[\"tangentialPressure\"] = tangentialPressure\n o[\"tiltX\"] = tiltX\n o[\"tiltY\"] = tiltY\n o[\"twist\"] = twist\n o[\"pointerType\"] = pointerType\n o[\"isPrimary\"] = isPrimary\n o[\"screenX\"] = screenX\n o[\"screenY\"] = screenY\n o[\"clientX\"] = clientX\n o[\"clientY\"] = clientY\n o[\"button\"] = button\n o[\"buttons\"] = buttons\n o[\"relatedTarget\"] = relatedTarget\n o[\"region\"] = region\n o[\"ctrlKey\"] = ctrlKey\n o[\"shiftKey\"] = shiftKey\n o[\"altKey\"] = altKey\n o[\"metaKey\"] = metaKey\n o[\"modifierAltGraph\"] = modifierAltGraph\n o[\"modifierCapsLock\"] = modifierCapsLock\n o[\"modifierFn\"] = modifierFn\n o[\"modifierFnLock\"] = modifierFnLock\n o[\"modifierHyper\"] = modifierHyper\n o[\"modifierNumLock\"] = modifierNumLock\n o[\"modifierScrollLock\"] = modifierScrollLock\n o[\"modifierSuper\"] = modifierSuper\n o[\"modifierSymbol\"] = modifierSymbol\n o[\"modifierSymbolLock\"] = modifierSymbolLock\n o[\"view\"] = view\n o[\"detail\"] = detail\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript [PointerEvent](https://developer.mozilla.org/en/docs/Web/API/PointerEvent) to Kotlin\n */\npublic external open class PointerEvent(type: String, eventInitDict: PointerEventInit = definedExternally) : MouseEvent {\n open val pointerId: Int\n open val width: Double\n open val height: Double\n open val pressure: Float\n open val

tangentialPressure: Float\n    open val tiltX: Int\n    open val tiltY: Int\n    open val twist: Int\n    open val pointerType: String\n    open val isPrimary: Boolean\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.svg\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.css.*\n\n/**\n * Exposes the JavaScript [SVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGElement) to Kotlin\n */\npublic external abstract class SVGElement : Element, ElementCSSInlineStyle, GlobalEventHandlers, SVGElementInstance {\n    open val dataset: DOMStringMap\n    open val ownerSVGElement: SVGSVGElement?\n    open val viewportElement: SVGElement?\n    open var tabIndex: Int\n    fun focus()\n    fun blur()\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external interface SVGBoundingBoxOptions {\n    var fill: Boolean? /* = true */\n        get() = definedExternally\n        set(value) = definedExternally\n    var stroke: Boolean? /* = false */\n        get() = definedExternally\n        set(value) = definedExternally\n    var markers: Boolean? /* = false */\n        get() = definedExternally\n        set(value) = definedExternally\n    var clipped: Boolean? /* = false */\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun SVGBoundingBoxOptions(fill: Boolean? = true, stroke: Boolean? = false, markers: Boolean? = false, clipped: Boolean? = false): SVGBoundingBoxOptions {\n    val o = js(\"({})\")\n    o[\"fill\"] = fill\n    o[\"stroke\"] = stroke\n    o[\"markers\"] = markers\n    o[\"clipped\"] = clipped\n    return o\n}\n\n/**\n * Exposes the JavaScript [SVGGraphicsElement](https://developer.mozilla.org/en/docs/Web/API/SVGGraphicsElement) to Kotlin\n */\npublic external abstract class SVGGraphicsElement : SVGElement, SVGTests {\n    open val transform: SVGAnimatedTransformList\n    fun getBBox(options: SVGBoundingBoxOptions = definedExternally): DOMRect\n    fun getCTM(): DOMMatrix?\n    fun getScreenCTM(): DOMMatrix?\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript [SVGGeometryElement](https://developer.mozilla.org/en/docs/Web/API/SVGGeometryElement) to Kotlin\n */\npublic external abstract class SVGGeometryElement : SVGGraphicsElement {\n    open val pathLength: SVGAnimatedNumber\n    fun isPointInFill(point: DOMPoint): Boolean\n    fun isPointInStroke(point: DOMPoint): Boolean\n    fun getTotalLength(): Float\n    fun getPointAtLength(distance: Float): DOMPoint\n\n    companion

object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGNumber](https://developer.mozilla.org/en/docs/Web/API/SVGNumber) to Kotlin\n */\npublic external abstract class SVGNumber {\n open var value: Float\n}\n\n/**\n * Exposes the JavaScript [SVGLength](https://developer.mozilla.org/en/docs/Web/API/SVGLength) to Kotlin\n */\npublic external abstract class SVGLength {\n open val unitType: Short\n open var value: Float\n open var valueInSpecifiedUnits: Float\n open var valueAsString: String\n fun newValueSpecifiedUnits(unitType: Short, valueInSpecifiedUnits: Float)\n fun convertToSpecifiedUnits(unitType: Short)\n\n companion object {\n val SVG_LENGTHTYPE_UNKNOWN: Short\n val SVG_LENGTHTYPE_NUMBER: Short\n val SVG_LENGTHTYPE_PERCENTAGE: Short\n val SVG_LENGTHTYPE_EMS: Short\n val SVG_LENGTHTYPE_EXS: Short\n val SVG_LENGTHTYPE_PX: Short\n val SVG_LENGTHTYPE_CM: Short\n val SVG_LENGTHTYPE_MM: Short\n val SVG_LENGTHTYPE_IN: Short\n val SVG_LENGTHTYPE_PT: Short\n val SVG_LENGTHTYPE_PC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGAngle](https://developer.mozilla.org/en/docs/Web/API/SVGAngle) to Kotlin\n */\npublic external abstract class SVGAngle {\n open val unitType: Short\n open var value: Float\n open var valueInSpecifiedUnits: Float\n open var valueAsString: String\n fun newValueSpecifiedUnits(unitType: Short, valueInSpecifiedUnits: Float)\n fun convertToSpecifiedUnits(unitType: Short)\n\n companion object {\n val SVG_ANGLETYPE_UNKNOWN: Short\n val SVG_ANGLETYPE_UNSPECIFIED: Short\n val SVG_ANGLETYPE_DEG: Short\n val SVG_ANGLETYPE_RAD: Short\n val SVG_ANGLETYPE_GRAD: Short\n }\n}\n\npublic external abstract class SVGNameList {\n open val length: Int\n open val numberOfItems: Int\n fun clear()\n fun initialize(newItem: dynamic): dynamic\n fun insertItemBefore(newItem: dynamic, index: Int): dynamic\n fun replaceItem(newItem: dynamic, index: Int): dynamic\n fun removeItem(index: Int): dynamic\n fun appendItem(newItem: dynamic): dynamic\n fun getItem(index: Int): dynamic\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNameList.get(index: Int): dynamic = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNameList.set(index: Int, newItem: dynamic) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript [SVGNumberList](https://developer.mozilla.org/en/docs/Web/API/SVGNumberList) to Kotlin\n */\npublic external abstract class SVGNumberList {\n open val length: Int\n open val numberOfItems: Int\n fun clear()\n fun initialize(newItem: SVGNumber): SVGNumber\n fun insertItemBefore(newItem: SVGNumber, index: Int): SVGNumber\n fun replaceItem(newItem: SVGNumber, index: Int): SVGNumber\n fun removeItem(index: Int): SVGNumber\n fun appendItem(newItem: SVGNumber): SVGNumber\n fun getItem(index: Int): SVGNumber\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNumberList.get(index: Int): SVGNumber? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNumberList.set(index: Int, newItem: SVGNumber) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript [SVGLengthList](https://developer.mozilla.org/en/docs/Web/API/SVGLengthList) to Kotlin\n */\npublic external abstract class SVGLengthList {\n open val length: Int\n open val numberOfItems: Int\n fun clear()\n fun

initialize(newItem: SVGLength): SVGLength\n    fun insertItemBefore(newItem: SVGLength, index: Int): SVGLength\n    fun replaceItem(newItem: SVGLength,
 index: Int): SVGLength\n    fun removeItem(index: Int): SVGLength\n    fun appendItem(newItem: SVGLength): SVGLength\n    fun getItem(index: Int): SVGLength\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGLengthList.get(index: Int): SVGLength? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGLengthList.set(index: Int, newItem: SVGLength) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript [SVGAnimatedBoolean](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedBoolean) to Kotlin\n */\npublic external abstract class SVGAnimatedBoolean {\n    open var baseVal: Boolean\n    open val animVal: Boolean\n}\n\n/**\n * Exposes the JavaScript [SVGAnimatedEnumeration](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedEnumeration) to Kotlin\n */\npublic external abstract class SVGAnimatedEnumeration
 {\n    open var baseVal: Short\n    open val animVal: Short\n}\n\n/**\n * Exposes the JavaScript [SVGAnimatedInteger](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedInteger) to Kotlin\n */\npublic external abstract class SVGAnimatedInteger {\n    open var baseVal: Int\n    open val animVal: Int\n}\n\n/**\n * Exposes the JavaScript [SVGAnimatedNumber](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedNumber) to Kotlin\n */\npublic external abstract class SVGAnimatedNumber {\n    open var baseVal: Float\n    open val animVal: Float\n}\n\n/**\n * Exposes the JavaScript [SVGAnimatedLength](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedLength) to Kotlin\n */\npublic external abstract class SVGAnimatedLength {\n    open val baseVal: SVGLength\n    open val animVal: SVGLength\n}\n\n/**\n * Exposes the JavaScript [SVGAnimatedAngle](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedAngle) to Kotlin\n */\npublic external abstract class SVGAnimatedAngle {\n    open
 val baseVal: SVGAngle\n    open val animVal: SVGAngle\n}\n\n/**\n * Exposes the JavaScript [SVGAnimatedString](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedString) to Kotlin\n */\npublic external abstract class SVGAnimatedString {\n    open var baseVal: String\n    open val animVal: String\n}\n\n/**\n * Exposes the JavaScript [SVGAnimatedRect](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedRect) to Kotlin\n */\npublic external abstract class SVGAnimatedRect {\n    open val baseVal: DOMRect\n    open val animVal: DOMRectReadOnly\n}\n\n/**\n * Exposes the JavaScript [SVGAnimatedNumberList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedNumberList) to Kotlin\n */\npublic external abstract class SVGAnimatedNumberList {\n    open val baseVal: SVGNumberList\n    open val animVal: SVGNumberList\n}\n\n/**\n * Exposes the JavaScript [SVGAnimatedLengthList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedLengthList) to Kotlin\n */\npublic external abstract
 class SVGAnimatedLengthList {\n    open val baseVal: SVGLengthList\n    open val animVal: SVGLengthList\n}\n\n/**\n * Exposes the JavaScript [SVGStringList](https://developer.mozilla.org/en/docs/Web/API/SVGStringList) to Kotlin\n */\npublic external abstract class SVGStringList {\n    open val length: Int\n    open val numberOfItems: Int\n    fun clear()\n    fun initialize(newItem: String): String\n    fun insertItemBefore(newItem: String, index: Int): String\n    fun replaceItem(newItem: String, index: Int): String\n    fun removeItem(index: Int): String\n    fun appendItem(newItem: String): String\n    fun getItem(index: Int): String\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGStringList.get(index: Int): String? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGStringList.set(index: Int, newItem: String) { asDynamic()[index]

= newItem }\n\n/**\n * Exposes the JavaScript [SVGUnitTypes](https://developer.mozilla.org/en/docs/Web/API/SVGUnitTypes) to Kotlin\n */\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface SVGUnitTypes {\n companion object {\n val SVG_UNIT_TYPE_UNKNOWN: Short\n val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGTests](https://developer.mozilla.org/en/docs/Web/API/SVGTests) to Kotlin\n */\npublic external interface SVGTests {\n val requiredExtensions: SVGStringList\n val systemLanguage: SVGStringList\n}\n\npublic external interface SVGFitToViewBox {\n val viewBox: SVGAnimatedRect\n val preserveAspectRatio: SVGAnimatedPreserveAspectRatio\n}\n\n/**\n * Exposes the JavaScript [SVGZoomAndPan](https://developer.mozilla.org/en/docs/Web/API/SVGZoomAndPan) to Kotlin\n */\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface SVGZoomAndPan {\n var zoomAndPan: Short\n\n companion object {\n val SVG_ZOOMANDPAN_UNKNOWN: Short\n val SVG_ZOOMANDPAN_DISABLE: Short\n val SVG_ZOOMANDPAN_MAGNIFY: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGURIReference](https://developer.mozilla.org/en/docs/Web/API/SVGURIReference) to Kotlin\n */\npublic external interface SVGURIReference {\n val href: SVGAnimatedString\n}\n\n/**\n * Exposes the JavaScript [SVGSVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGSVGElement) to Kotlin\n */\npublic external abstract class SVGSVGElement : SVGGraphicsElement, SVGFitToViewBox, SVGZoomAndPan, WindowEventHandlers {\n open val x: SVGAnimatedLength\n open val y: SVGAnimatedLength\n open val width: SVGAnimatedLength\n open val height: SVGAnimatedLength\n open var currentScale: Float\n open val currentTranslate: DOMPointReadOnly\n fun getIntersectionList(rect: DOMRectReadOnly, referenceElement: SVGElement?): NodeList\n fun getEnclosureList(rect: DOMRectReadOnly, referenceElement: SVGElement?): NodeList\n fun checkIntersection(element: SVGElement, rect: DOMRectReadOnly): Boolean\n fun checkEnclosure(element: SVGElement, rect: DOMRectReadOnly): Boolean\n fun deselectAll()\n fun createSVGNumber(): SVGNumber\n fun createSVGLength(): SVGLength\n fun createSVGAngle(): SVGAngle\n fun createSVGPoint(): DOMPoint\n fun createSVGMatrix(): DOMMatrix\n fun createSVGRect(): DOMRect\n fun createSVGTransform(): SVGTransform\n fun createSVGTransformFromMatrix(matrix: DOMMatrixReadOnly): SVGTransform\n fun getElementById(elementId: String): Element\n fun suspendRedraw(maxWaitMilliseconds: Int): Int\n fun unsuspendRedraw(suspendHandleID: Int)\n fun unsuspendRedrawAll()\n fun forceRedraw()\n\n companion object {\n val SVG_ZOOMANDPAN_UNKNOWN: Short\n val SVG_ZOOMANDPAN_DISABLE: Short\n val SVG_ZOOMANDPAN_MAGNIFY: Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGGElement](https://developer.mozilla.org/en/docs/Web/API/SVGGElement) to Kotlin\n */\npublic external abstract class SVGGElement : SVGGraphicsElement {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val

PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class SVGUnknownElement : SVGGraphicsElement {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGDefsElement](https://developer.mozilla.org/en/docs/Web/API/SVGDefsElement) to Kotlin\n */\npublic external abstract class SVGDefsElement : SVGGraphicsElement {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGDescElement](https://developer.mozilla.org/en/docs/Web/API/SVGDescElement) to Kotlin\n */\npublic external abstract class SVGDescElement : SVGElement {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGMetadataElement](https://developer.mozilla.org/en/docs/Web/API/SVGMetadataElement) to Kotlin\n */\npublic external abstract class SVGMetadataElement : SVGElement {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val

DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGTitleElement](https://developer.mozilla.org/en/docs/Web/API/SVGTitleElement) to Kotlin\n */\npublic external abstract class SVGTitleElement : SVGElement {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGSymbolElement](https://developer.mozilla.org/en/docs/Web/API/SVGSymbolElement) to Kotlin\n */\npublic external abstract class SVGSymbolElement : SVGGraphicsElement, SVGFitToViewBox {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGUseElement](https://developer.mozilla.org/en/docs/Web/API/SVGUseElement) to Kotlin\n */\npublic external abstract class SVGUseElement : SVGGraphicsElement, SVGURIReference {\n open val x: SVGAnimatedLength\n open val y: SVGAnimatedLength\n open val width: SVGAnimatedLength\n open val height: SVGAnimatedLength\n open val instanceRoot: SVGElement?\n open val animatedInstanceRoot: SVGElement?\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external open class SVGUseElementShadowRoot : ShadowRoot {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val

DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external interface SVGElementInstance {\n val correspondingElement: SVGElement?\n get() = definedExternally\n val correspondingUseElement: SVGUseElement?\n get() = definedExternally\n}\n\npublic external open class ShadowAnimation(source: dynamic, newTarget: dynamic) {\n open val sourceAnimation: dynamic\n}\n\n/**\n * Exposes the JavaScript [SVGSwitchElement](https://developer.mozilla.org/en/docs/Web/API/SVGSwitchElement) to Kotlin\n */\npublic external abstract class SVGSwitchElement : SVGGraphicsElement {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external interface GetSVGDocument {\n fun getSVGDocument(): Document\n}\n\n/**\n * Exposes the JavaScript [SVGStyleElement](https://developer.mozilla.org/en/docs/Web/API/SVGStyleElement) to Kotlin\n */\npublic external abstract class SVGStyleElement : SVGElement, LinkStyle {\n open var type: String\n open var media: String\n open var title: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGTransform](https://developer.mozilla.org/en/docs/Web/API/SVGTransform) to Kotlin\n */\npublic external abstract class SVGTransform {\n open val type: Short\n open val matrix: DOMMatrix\n open val angle: Float\n fun setMatrix(matrix: DOMMatrixReadOnly)\n fun setTranslate(tx: Float, ty: Float)\n fun setScale(sx: Float, sy: Float)\n fun setRotate(angle: Float, cx: Float, cy: Float)\n fun setSkewX(angle: Float)\n fun setSkewY(angle: Float)\n\n companion object {\n val SVG_TRANSFORM_UNKNOWN: Short\n val SVG_TRANSFORM_MATRIX: Short\n val SVG_TRANSFORM_TRANSLATE: Short\n val SVG_TRANSFORM_SCALE: Short\n val SVG_TRANSFORM_ROTATE: Short\n val SVG_TRANSFORM_SKEWX: Short\n val SVG_TRANSFORM_SKEWY: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGTransformList) to Kotlin\n */\npublic external abstract class SVGTransformList {\n open val length: Int\n open val numberOfItems: Int\n fun clear()\n fun initialize(newItem: SVGTransform): SVGTransform\n fun insertItemBefore(newItem: SVGTransform, index: Int): SVGTransform\n fun replaceItem(newItem: SVGTransform, index: Int): SVGTransform\n fun removeItem(index: Int): SVGTransform\n fun appendItem(newItem: SVGTransform): SVGTransform\n fun createSVGTransformFromMatrix(matrix: DOMMatrixReadOnly): SVGTransform\n fun consolidate(): SVGTransform?\n fun getItem(index: Int): SVGTransform\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGTransformList.get(index: Int): SVGTransform? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGTransformList.set(index:

Int, newItem: SVGTransform) { asDynamic()[index] = newItem
}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedTransformList) to
Kotlin\n */\npublic external abstract class SVGAnimatedTransformList {\n open val baseVal:
SVGTransformList\n open val animVal: SVGTransformList\n}\n\n/**\n * Exposes the JavaScript
[SVGPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGPreserveAspectRatio) to Kotlin\n
*/\npublic external abstract class SVGPreserveAspectRatio {\n open var align: Short\n open var meetOrSlice:
Short\n\n companion object {\n val SVG_PRESERVEASPECTRATIO_UNKNOWN: Short\n val
SVG_PRESERVEASPECTRATIO_NONE: Short\n val SVG_PRESERVEASPECTRATIO_XMINYMIN:
Short\n val SVG_PRESERVEASPECTRATIO_XMIDYMIN: Short\n val
SVG_PRESERVEASPECTRATIO_XMAXYMIN: Short\n val
SVG_PRESERVEASPECTRATIO_XMINYMID: Short\n val
SVG_PRESERVEASPECTRATIO_XMIDYMID: Short\n val
SVG_PRESERVEASPECTRATIO_XMAXYMID: Short\n
val SVG_PRESERVEASPECTRATIO_XMINYMAX: Short\n val
SVG_PRESERVEASPECTRATIO_XMIDYMAX: Short\n val
SVG_PRESERVEASPECTRATIO_XMAXYMAX: Short\n val SVG_MEETORSLICE_UNKNOWN: Short\n
val SVG_MEETORSLICE_MEET: Short\n val SVG_MEETORSLICE_SLICE: Short\n }\n}\n\n/**\n *
Exposes the JavaScript
[SVGAnimatedPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPreserveAspect
Ratio) to Kotlin\n */\npublic external abstract class SVGAnimatedPreserveAspectRatio {\n open val baseVal:
SVGPreserveAspectRatio\n open val animVal: SVGPreserveAspectRatio\n}\n\n/**\n * Exposes the JavaScript
[SVGPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGPathElement) to Kotlin\n */\npublic
external abstract class SVGPathElement : SVGGeometryElement {\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGRectElement](https://developer.mozilla.org/en/docs/Web/API/SVGRectElement) to Kotlin\n */\npublic
external abstract class SVGRectElement : SVGGeometryElement {\n open val x: SVGAnimatedLength\n open
val y: SVGAnimatedLength\n open val width: SVGAnimatedLength\n open val height: SVGAnimatedLength\n
open val rx: SVGAnimatedLength\n open val ry: SVGAnimatedLength\n\n
companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val
TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGCircleElement](https://developer.mozilla.org/en/docs/Web/API/SVGCircleElement) to Kotlin\n */\npublic
external abstract class SVGCircleElement : SVGGeometryElement

{\n open val cx: SVGAnimatedLength\n open val cy: SVGAnimatedLength\n open val r: SVGAnimatedLength\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGEllipseElement](https://developer.mozilla.org/en/docs/Web/API/SVGEllipseElement) to Kotlin\n */\npublic external abstract class SVGEllipseElement : SVGGeometryElement {\n open val cx: SVGAnimatedLength\n open val cy: SVGAnimatedLength\n open val rx: SVGAnimatedLength\n open val ry: SVGAnimatedLength\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGLineElement](https://developer.mozilla.org/en/docs/Web/API/SVGLineElement) to Kotlin\n */\npublic external abstract class SVGLineElement : SVGGeometryElement {\n open val x1: SVGAnimatedLength\n open val y1: SVGAnimatedLength\n open val x2: SVGAnimatedLength\n open val y2: SVGAnimatedLength\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGMeshElement](https://developer.mozilla.org/en/docs/Web/API/SVGMeshElement) to Kotlin\n */\npublic external abstract class SVGMeshElement : SVGGeometryElement, SVGURIReference {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the

JavaScript [SVGAnimatedPoints](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPoints) to Kotlin\n */\npublic external interface SVGAnimatedPoints {\n    val points: SVGPointList\n    val animatedPoints: SVGPointList\n}\n\npublic external abstract class SVGPointList {\n    open val length: Int\n    open val numberOfItems: Int\n    fun clear()\n    fun initialize(newItem: DOMPoint): DOMPoint\n    fun insertItemBefore(newItem: DOMPoint, index: Int): DOMPoint\n    fun replaceItem(newItem: DOMPoint, index: Int): DOMPoint\n    fun removeItem(index: Int): DOMPoint\n    fun appendItem(newItem: DOMPoint): DOMPoint\n    fun getItem(index: Int): DOMPoint\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGPointList.get(index: Int): DOMPoint?
 = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGPointList.set(index: Int, newItem: DOMPoint) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript [SVGPolylineElement](https://developer.mozilla.org/en/docs/Web/API/SVGPolylineElement) to Kotlin\n */\npublic external abstract class SVGPolylineElement : SVGGeometryElement, SVGAnimatedPoints {\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript [SVGPolygonElement](https://developer.mozilla.org/en/docs/Web/API/SVGPolygonElement) to Kotlin\n */\npublic external abstract class SVGPolygonElement : SVGGeometryElement, SVGAnimatedPoints {\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript [SVGTextContentElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextContentElement) to Kotlin\n */\npublic external abstract class SVGTextContentElement : SVGGraphicsElement {\n    open val textLength: SVGAnimatedLength\n    open val lengthAdjust: SVGAnimatedEnumeration\n    fun getNumberOfChars(): Int\n    fun getComputedTextLength(): Float\n    fun getSubStringLength(charnum: Int, nchars: Int): Float\n    fun getStartPositionOfChar(charnum: Int): DOMPoint\n    fun getEndPositionOfChar(charnum: Int): DOMPoint\n    fun getExtentOfChar(charnum: Int): DOMRect\n    fun getRotationOfChar(charnum: Int): Float\n    fun getCharNumAtPosition(point: DOMPoint): Int\n    fun selectSubString(charnum: Int, nchars: Int)\n\n    companion object {\n        val LENGTHADJUST_UNKNOWN: Short\n        val LENGTHADJUST_SPACING: Short\n        val LENGTHADJUST_SPACINGANDGLYPHS: Short\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val

DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGTextPositioningElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextPositioningElement) to Kotlin\n */\npublic external abstract class SVGTextPositioningElement : SVGTextContentElement {\n open val x: SVGAnimatedLengthList\n open val y: SVGAnimatedLengthList\n open val dx: SVGAnimatedLengthList\n open val dy: SVGAnimatedLengthList\n open val rotate: SVGAnimatedNumberList\n\n companion object {\n val LENGTHADJUST_UNKNOWN: Short\n val LENGTHADJUST_SPACING: Short\n val LENGTHADJUST_SPACINGANDGLYPHS: Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGTextElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextElement) to Kotlin\n */\npublic external abstract class SVGTextElement : SVGTextPositioningElement {\n companion object {\n val LENGTHADJUST_UNKNOWN: Short\n val LENGTHADJUST_SPACING: Short\n val LENGTHADJUST_SPACINGANDGLYPHS: Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGTSpanElement](https://developer.mozilla.org/en/docs/Web/API/SVGTSpanElement) to Kotlin\n */\npublic external abstract class SVGTSpanElement : SVGTextPositioningElement {\n companion object {\n val LENGTHADJUST_UNKNOWN: Short\n val LENGTHADJUST_SPACING: Short\n val LENGTHADJUST_SPACINGANDGLYPHS: Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGTextPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextPathElement) to

Kotlin\n */\npublic external abstract class SVGTextPathElement : SVGTextContentElement, SVGURIReference {\n open val startOffset: SVGAnimatedLength\n open val method: SVGAnimatedEnumeration\n open val spacing: SVGAnimatedEnumeration\n\n companion object {\n val TEXTPATH_METHODTYPE_UNKNOWN: Short\n val TEXTPATH_METHODTYPE_ALIGN: Short\n val TEXTPATH_METHODTYPE_STRETCH: Short\n val TEXTPATH_SPACINGTYPE_UNKNOWN: Short\n val TEXTPATH_SPACINGTYPE_AUTO: Short\n val TEXTPATH_SPACINGTYPE_EXACT: Short\n val LENGTHADJUST_UNKNOWN: Short\n val LENGTHADJUST_SPACING: Short\n val LENGTHADJUST_SPACINGANDGLYPHS: Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGImageElement](https://developer.mozilla.org/en/docs/Web/API/SVGImageElement) to Kotlin\n */\npublic external abstract class SVGImageElement : SVGGraphicsElement, SVGURIReference, HTMLOrSVGImageElement {\n open val x: SVGAnimatedLength\n open val y: SVGAnimatedLength\n open val width: SVGAnimatedLength\n open val height: SVGAnimatedLength\n open val preserveAspectRatio: SVGAnimatedPreserveAspectRatio\n open var crossOrigin: String?\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGForeignObjectElement](https://developer.mozilla.org/en/docs/Web/API/SVGForeignObjectElement) to Kotlin\n */\npublic external abstract class SVGForeignObjectElement : SVGGraphicsElement {\n open val x: SVGAnimatedLength\n open val y: SVGAnimatedLength\n open val width: SVGAnimatedLength\n open val height: SVGAnimatedLength\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class SVGMarkerElement : SVGElement, SVGFitToViewBox {\n open val refX: SVGAnimatedLength\n open val refY: SVGAnimatedLength\n open val markerUnits: SVGAnimatedEnumeration\n open val markerWidth: SVGAnimatedLength\n open val markerHeight: SVGAnimatedLength\n open val orientType:

SVGAnimatedEnumeration\n    open val orientAngle: SVGAnimatedAngle\n    open var orient: String\n    fun setOrientToAuto()\n    fun setOrientToAngle(angle: SVGAngle)\n\n    companion object {\n        val SVG_MARKERUNITS_UNKNOWN: Short\n        val SVG_MARKERUNITS_USERSPACEONUSE: Short\n        val SVG_MARKERUNITS_STROKEWIDTH: Short\n        val SVG_MARKER_ORIENT_UNKNOWN: Short\n        val SVG_MARKER_ORIENT_AUTO: Short\n        val SVG_MARKER_ORIENT_ANGLE: Short\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript [SVGSolidcolorElement](https://developer.mozilla.org/en/docs/Web/API/SVGSolidcolorElement) to Kotlin\n */\npublic external abstract class SVGSolidcolorElement : SVGElement {\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript [SVGGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGGradientElement) to Kotlin\n */\npublic external abstract class SVGGradientElement : SVGElement, SVGURIReference, SVGUnitTypes {\n    open val gradientUnits: SVGAnimatedEnumeration\n    open val gradientTransform: SVGAnimatedTransformList\n    open val spreadMethod: SVGAnimatedEnumeration\n\n    companion object {\n        val SVG_SPREADMETHOD_UNKNOWN: Short\n        val SVG_SPREADMETHOD_PAD: Short\n        val SVG_SPREADMETHOD_REFLECT: Short\n        val SVG_SPREADMETHOD_REPEAT: Short\n        val SVG_UNIT_TYPE_UNKNOWN: Short\n        val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n        val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript [SVGLinearGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGLinearGradientElement) to Kotlin\n */\npublic external abstract class SVGLinearGradientElement : SVGGradientElement {\n    open val x1: SVGAnimatedLength\n    open val y1: SVGAnimatedLength\n    open val x2: SVGAnimatedLength\n    open val y2: SVGAnimatedLength\n\n    companion object {\n        val SVG_SPREADMETHOD_UNKNOWN: Short\n

val SVG_SPREADMETHOD_PAD: Short\n val SVG_SPREADMETHOD_REFLECT: Short\n val SVG_SPREADMETHOD_REPEAT: Short\n val SVG_UNIT_TYPE_UNKNOWN: Short\n val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGRadialGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGRadialGradientElement) to Kotlin\n */\npublic external abstract class SVGRadialGradientElement : SVGGradientElement {\n open val cx: SVGAnimatedLength\n open val cy: SVGAnimatedLength\n open val r: SVGAnimatedLength\n open val fx: SVGAnimatedLength\n open val fy: SVGAnimatedLength\n open val fr: SVGAnimatedLength\n\n companion object {\n val SVG_SPREADMETHOD_UNKNOWN: Short\n val SVG_SPREADMETHOD_PAD: Short\n val SVG_SPREADMETHOD_REFLECT: Short\n val SVG_SPREADMETHOD_REPEAT: Short\n val SVG_UNIT_TYPE_UNKNOWN: Short\n val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class SVGMeshGradientElement : SVGGradientElement {\n companion object {\n val SVG_SPREADMETHOD_UNKNOWN: Short\n val SVG_SPREADMETHOD_PAD: Short\n val SVG_SPREADMETHOD_REFLECT: Short\n val SVG_SPREADMETHOD_REPEAT: Short\n val SVG_UNIT_TYPE_UNKNOWN: Short\n val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class SVGMeshrowElement : SVGElement {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val

DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class SVGMeshpatchElement : SVGElement {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGStopElement](https://developer.mozilla.org/en/docs/Web/API/SVGStopElement) to Kotlin\n */\npublic external abstract class SVGStopElement : SVGElement {\n open val offset: SVGAnimatedNumber\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE:
Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGPatternElement](https://developer.mozilla.org/en/docs/Web/API/SVGPatternElement) to Kotlin\n */\npublic external abstract class SVGPatternElement : SVGElement, SVGFitToViewBox, SVGURIReference, SVGUnitTypes {\n open val patternUnits: SVGAnimatedEnumeration\n open val patternContentUnits: SVGAnimatedEnumeration\n open val patternTransform: SVGAnimatedTransformList\n open val x: SVGAnimatedLength\n open val y: SVGAnimatedLength\n open val width: SVGAnimatedLength\n open val height: SVGAnimatedLength\n\n companion object {\n val SVG_UNIT_TYPE_UNKNOWN: Short\n val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class SVGHatchElement : SVGElement {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val

PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class SVGHatchpathElement : SVGElement {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGCursorElement](https://developer.mozilla.org/en/docs/Web/API/SVGCursorElement) to Kotlin\n */\npublic external abstract class SVGCursorElement : SVGElement, SVGURIReference {\n open val x: SVGAnimatedLength\n open val y: SVGAnimatedLength\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGScriptElement](https://developer.mozilla.org/en/docs/Web/API/SVGScriptElement) to Kotlin\n */\npublic external abstract class SVGScriptElement : SVGElement, SVGURIReference, HTMLOrSVGScriptElement {\n open var type: String\n open var crossOrigin: String?\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGAElement](https://developer.mozilla.org/en/docs/Web/API/SVGAElement) to Kotlin\n */\npublic external abstract class SVGAElement : SVGGraphicsElement, SVGURIReference {\n open val target: SVGAnimatedString\n open val download: SVGAnimatedString\n open val rel: SVGAnimatedString\n open val relList: SVGAnimatedString\n open val hreflang: SVGAnimatedString\n open val type: SVGAnimatedString\n\n companion object {\n val

ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGViewElement](https://developer.mozilla.org/en/docs/Web/API/SVGViewElement) to Kotlin\n */\npublic external abstract class SVGViewElement : SVGElement, SVGFitToViewBox, SVGZoomAndPan {\n companion object {\n val SVG_ZOOMANDPAN_UNKNOWN: Short\n val SVG_ZOOMANDPAN_DISABLE: Short\n val SVG_ZOOMANDPAN_MAGNIFY: Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.files\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\nimport org.w3c.xhr.*\n\n/**\n * Exposes the JavaScript [Blob](https://developer.mozilla.org/en/docs/Web/API/Blob) to Kotlin\n */\npublic external open class Blob(blobParts: Array<dynamic> = definedExternally, options: BlobPropertyBag = definedExternally) : MediaProvider, ImageBitmapSource {\n open val size: Number\n open val type: String\n open val isClosed: Boolean\n\n fun slice(start: Int = definedExternally, end: Int = definedExternally, contentType: String = definedExternally): Blob\n fun close()\n}\n\npublic external interface BlobPropertyBag {\n var type: String? /* = \"\" */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun BlobPropertyBag(type: String? = \"\"): BlobPropertyBag {\n val o = js(\"({})\")\n o[\"type\"] = type\n return o\n}\n\n/**\n * Exposes the JavaScript [File](https://developer.mozilla.org/en/docs/Web/API/File) to Kotlin\n */\npublic external open class File(fileBits: Array<dynamic>, fileName: String, options: FilePropertyBag = definedExternally) : Blob {\n open val name: String\n open val lastModified: Int\n}\n\npublic external interface FilePropertyBag : BlobPropertyBag {\n var lastModified: Int?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun FilePropertyBag(lastModified: Int? = undefined, type: String? = \"\"): FilePropertyBag {\n val o = js(\"({})\")\n o[\"lastModified\"] = lastModified\n o[\"type\"] = type\n return o\n}\n\n/**\n * Exposes the JavaScript [FileList](https://developer.mozilla.org/en/docs/Web/API/FileList) to Kotlin\n */\npublic external abstract class FileList : ItemArrayLike<File> {\n override fun item(index: Int): File?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",

\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun FileList.get(index: Int): File? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript [FileReader](https://developer.mozilla.org/en/docs/Web/API/FileReader) to Kotlin\n */\npublic external open class FileReader : EventTarget {\n open val readyState: Short\n open val result: dynamic\n open val error: dynamic\n var onloadstart: ((ProgressEvent) -> dynamic)?\n var onprogress: ((ProgressEvent) -> dynamic)?\n var onload: ((Event) -> dynamic)?\n var onabort: ((Event) -> dynamic)?\n var onerror: ((Event) -> dynamic)?\n var onloadend: ((Event) -> dynamic)?\n fun readAsArrayBuffer(blob: Blob)\n fun readAsBinaryString(blob: Blob)\n fun readAsText(blob: Blob, label: String = definedExternally)\n fun readAsDataURL(blob: Blob)\n fun abort()\n\n companion object {\n val EMPTY: Short\n val LOADING: Short\n val DONE: Short\n }\n}\n\n/**\n * Exposes the JavaScript [FileReaderSync](https://developer.mozilla.org/en/docs/Web/API/FileReaderSync) to Kotlin\n */\npublic external open class FileReaderSync {\n fun readAsArrayBuffer(blob: Blob): ArrayBuffer\n fun readAsBinaryString(blob: Blob): String\n fun readAsText(blob: Blob, label: String = definedExternally): String\n fun readAsDataURL(blob: Blob): String\n}","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.notifications\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.events.*\nimport org.w3c.workers.*\n\n/**\n * Exposes the JavaScript [Notification](https://developer.mozilla.org/en/docs/Web/API/Notification) to Kotlin\n */\npublic external open class Notification(title: String, options: NotificationOptions = definedExternally) : EventTarget {\n var onclick: ((MouseEvent) -> dynamic)?\n var onerror: ((Event) -> dynamic)?\n open val title: String\n open val dir: NotificationDirection\n open val lang: String\n open val body: String\n open val tag: String\n open val image: String\n open val icon: String\n open val badge: String\n open val sound: String\n open val vibrate: Array<out Int>\n open val timestamp: Number\n open val renotify: Boolean\n open val silent: Boolean\n open val noscreen: Boolean\n open val requireInteraction: Boolean\n open val sticky: Boolean\n open val data: Any?\n open val actions: Array<out NotificationAction>\n fun close()\n\n companion object {\n val permission: NotificationPermission\n val maxActions: Int\n fun requestPermission(deprecatedCallback: (NotificationPermission) -> Unit = definedExternally): Promise<NotificationPermission>\n }\n}\n\npublic external interface NotificationOptions {\n var dir: NotificationDirection? /* = NotificationDirection.AUTO */\n get() = definedExternally\n set(value) = definedExternally\n var lang: String? /* = \"\" */\n get() = definedExternally\n set(value) = definedExternally\n var body: String? /* = \"\" */\n get() = definedExternally\n set(value) = definedExternally\n var tag: String? /* = \"\" */\n get() = definedExternally\n set(value) = definedExternally\n var image: String?\n get() = definedExternally\n set(value) = definedExternally\n var icon: String?\n get() = definedExternally\n set(value) = definedExternally\n var badge: String?\n get() = definedExternally\n set(value) = definedExternally\n var sound: String?\n get() = definedExternally\n set(value) = definedExternally\n var vibrate: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var timestamp: Number?\n get() = definedExternally\n set(value) = definedExternally\n var renotify: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var silent: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var noscreen: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var requireInteraction: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var sticky: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var data: Any? /* = null */\n get() = definedExternally\n set(value) = definedExternally\n var actions: Array<NotificationAction>? /* = arrayOf() */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",

\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun NotificationOptions(dir: NotificationDirection? = NotificationDirection.AUTO, lang: String? = \"\", body: String? = \"\", tag: String? = \"\", image: String? = undefined, icon: String? = undefined, badge: String? = undefined, sound: String? = undefined, vibrate: dynamic = undefined, timestamp: Number? = undefined, renotify: Boolean? = false, silent: Boolean? = false, noscreen: Boolean? = false, requireInteraction: Boolean? = false, sticky: Boolean? = false, data: Any? = null, actions: Array<NotificationAction>? = arrayOf()): NotificationOptions {\n val o = js(\"({})\")\n o[\"dir\"] = dir\n o[\"lang\"] = lang\n o[\"body\"] = body\n o[\"tag\"] = tag\n o[\"image\"] = image\n o[\"icon\"] = icon\n o[\"badge\"] = badge\n o[\"sound\"] = sound\n o[\"vibrate\"] = vibrate\n o[\"timestamp\"] = timestamp\n o[\"renotify\"] = renotify\n o[\"silent\"] = silent\n o[\"noscreen\"] = noscreen\n o[\"requireInteraction\"] = requireInteraction\n o[\"sticky\"] = sticky\n o[\"data\"] = data\n o[\"actions\"] = actions\n return o\n}\n\npublic external interface NotificationAction {\n var action: String?\n var title: String?\n var icon: String?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun NotificationAction(action: String?, title: String?, icon: String? = undefined): NotificationAction {\n val o = js(\"({})\")\n o[\"action\"] = action\n o[\"title\"] = title\n o[\"icon\"] = icon\n return o\n}\n\npublic external interface GetNotificationOptions {\n var tag: String? /* = \"\" */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun GetNotificationOptions(tag: String? = \"\"): GetNotificationOptions {\n val o = js(\"({})\")\n o[\"tag\"] = tag\n return o\n}\n\n/**\n * Exposes the JavaScript [NotificationEvent](https://developer.mozilla.org/en/docs/Web/API/NotificationEvent) to Kotlin\n */\npublic external open class NotificationEvent(type: String, eventInitDict: NotificationEventInit) : ExtendableEvent {\n open val notification: Notification\n open val action: String\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface NotificationEventInit : ExtendableEventInit {\n var notification: Notification?\n var action: String? /* = \"\" */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun NotificationEventInit(notification: Notification?, action: String? = \"\", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): NotificationEventInit {\n val o = js(\"({})\")\n o[\"notification\"] = notification\n o[\"action\"] = action\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface NotificationPermission {\n companion object\n}\n\npublic inline val NotificationPermission.Companion.DEFAULT: NotificationPermission get() = \"default\".asDynamic().unsafeCast<NotificationPermission>()\n\npublic inline val NotificationPermission.Companion.DENIED: NotificationPermission get() = \"denied\".asDynamic().unsafeCast<NotificationPermission>()\n\npublic inline val NotificationPermission.Companion.GRANTED: NotificationPermission get() = \"granted\".asDynamic().unsafeCast<NotificationPermission>()\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface NotificationDirection {\n companion object\n}\n\npublic inline val NotificationDirection.Companion.AUTO: NotificationDirection get() = \"auto\".asDynamic().unsafeCast<NotificationDirection>()\n\npublic inline val NotificationDirection.Companion.LTR: NotificationDirection get() = \"ltr\".asDynamic().unsafeCast<NotificationDirection>()\n\npublic inline val NotificationDirection.Companion.RTL: NotificationDirection get() = \"rtl\".asDynamic().unsafeCast<NotificationDirection>()","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin

Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.workers\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\nimport org.w3c.fetch.*\nimport org.w3c.notifications.*\n\n/**\n * Exposes the JavaScript [ServiceWorker](https://developer.mozilla.org/en/docs/Web/API/ServiceWorker) to Kotlin\n */\npublic external abstract class ServiceWorker : EventTarget, AbstractWorker, UnionMessagePortOrServiceWorker, UnionClientOrMessagePortOrServiceWorker {\n    open val scriptURL: String\n    open val state: ServiceWorkerState\n    open var onstatechange: ((Event) -> dynamic)?\n    fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)\n}\n\n/**\n * Exposes the JavaScript [ServiceWorkerRegistration](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerRegistration) to Kotlin\n */\npublic external abstract class ServiceWorkerRegistration : EventTarget {\n    open val installing: ServiceWorker?\n    open val waiting: ServiceWorker?\n    open val active: ServiceWorker?\n    open val scope: String\n    open var onupdatefound: ((Event) -> dynamic)?\n    open val APISpace: dynamic\n    fun update(): Promise<Unit>\n    fun unregister(): Promise<Boolean>\n    fun showNotification(title: String, options: NotificationOptions = definedExternally): Promise<Unit>\n    fun getNotifications(filter: GetNotificationOptions = definedExternally): Promise<Array<Notification>>\n    fun methodName(): Promise<dynamic>\n}\n\n/**\n * Exposes the JavaScript [ServiceWorkerContainer](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerContainer) to Kotlin\n */\npublic external abstract class ServiceWorkerContainer : EventTarget {\n    open val controller: ServiceWorker?\n    open val ready: Promise<ServiceWorkerRegistration>\n    open var oncontrollerchange: ((Event) -> dynamic)?\n    open var onmessage: ((MessageEvent) -> dynamic)?\n    fun register(scriptURL: String, options: RegistrationOptions = definedExternally): Promise<ServiceWorkerRegistration>\n    fun getRegistration(clientURL: String = definedExternally): Promise<Any?>\n    fun getRegistrations(): Promise<Array<ServiceWorkerRegistration>>\n    fun startMessages()\n}\n\npublic external interface RegistrationOptions {\n    var scope: String?\n        get() = definedExternally\n        set(value) = definedExternally\n    var type: WorkerType? /* = WorkerType.CLASSIC */\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun RegistrationOptions(scope: String? = undefined, type: WorkerType? = WorkerType.CLASSIC): RegistrationOptions {\n    val o = js(\"({})\")\n    o[\"scope\"] = scope\n    o[\"type\"] = type\n    return o\n}\n\n/**\n * Exposes the JavaScript [ServiceWorkerMessageEvent](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerMessageEvent) to Kotlin\n */\npublic external open class ServiceWorkerMessageEvent(type: String, eventInitDict: ServiceWorkerMessageEventInit = definedExternally) : Event {\n    open val data: Any?\n    open val origin: String\n    open val lastEventId: String\n    open val source: UnionMessagePortOrServiceWorker?\n    open val ports: Array<out MessagePort>?\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface ServiceWorkerMessageEventInit : EventInit {\n    var data: Any?\n        get() = definedExternally\n        set(value) = definedExternally\n    var origin: String?\n        get() = definedExternally\n        set(value) = definedExternally\n    var lastEventId: String?\n        get() = definedExternally\n        set(value) = definedExternally\n    var source: UnionMessagePortOrServiceWorker?\n        get() = definedExternally\n        set(value) = definedExternally\n    var ports: Array<MessagePort>?\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ServiceWorkerMessageEventInit(data: Any? = undefined, origin: String? = undefined, lastEventId: String? = undefined, source: UnionMessagePortOrServiceWorker? = undefined, ports: Array<MessagePort>? = undefined, bubbles: Boolean? =

false, cancelable: Boolean? = false, composed: Boolean? = false): ServiceWorkerMessageEventInit {\n val o = js(\"({})\")\n o[\"data\"] = data\n o[\"origin\"]
= origin\n o[\"lastEventId\"] = lastEventId\n o[\"source\"] = source\n o[\"ports\"] = ports\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript
[ServiceWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerGlobalScope) to Kotlin\n */\npublic external abstract class ServiceWorkerGlobalScope : WorkerGlobalScope {\n open val clients: Clients\n open val registration: ServiceWorkerRegistration\n open var oninstall: ((Event) -> dynamic)?\n open var onactivate: ((Event) -> dynamic)?\n open var onfetch: ((FetchEvent) -> dynamic)?\n open var onforeignfetch: ((Event) -> dynamic)?\n open var onmessage: ((MessageEvent) -> dynamic)?\n open var onnotificationclick: ((NotificationEvent) -> dynamic)?\n open var onnotificationclose: ((NotificationEvent) -> dynamic)?\n open var onfunctionalevent: ((Event) -> dynamic)?\n fun skipWaiting():
Promise<Unit>\n}\n\n/**\n * Exposes the JavaScript
[Client](https://developer.mozilla.org/en/docs/Web/API/Client) to Kotlin\n */\npublic external abstract class Client : UnionClientOrMessagePortOrServiceWorker {\n open val url: String\n open val frameType: FrameType\n open val id: String\n fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)\n}\n\n/**\n * Exposes the JavaScript [WindowClient](https://developer.mozilla.org/en/docs/Web/API/WindowClient) to Kotlin\n */\npublic external abstract class WindowClient : Client {\n open val visibilityState: dynamic\n open val focused: Boolean\n fun focus(): Promise<WindowClient>\n fun navigate(url: String): Promise<WindowClient>\n}\n\n/**\n * Exposes the JavaScript
[Clients](https://developer.mozilla.org/en/docs/Web/API/Clients) to Kotlin\n */\npublic external abstract class Clients {\n fun get(id: String): Promise<Any?>\n fun matchAll(options: ClientQueryOptions = definedExternally):
Promise<Array<Client>>\n fun openWindow(url: String): Promise<WindowClient?>\n fun claim(): Promise<Unit>\n}\n\npublic external interface ClientQueryOptions {\n var includeUncontrolled: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var type: ClientType? /* = ClientType.WINDOW */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ClientQueryOptions(includeUncontrolled: Boolean? = false, type: ClientType? = ClientType.WINDOW): ClientQueryOptions {\n val o = js(\"({})\")\n o[\"includeUncontrolled\"] = includeUncontrolled\n o[\"type\"] = type\n return o\n}\n\n/**\n * Exposes the JavaScript
[ExtendableEvent](https://developer.mozilla.org/en/docs/Web/API/ExtendableEvent) to Kotlin\n */\npublic external open class ExtendableEvent(type: String, eventInitDict: ExtendableEventInit = definedExternally)
: Event {\n fun waitUntil(f: Promise<Any?>)\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface ExtendableEventInit : EventInit\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ExtendableEventInit(bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ExtendableEventInit {\n val o = js(\"({})\")\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript
[InstallEvent](https://developer.mozilla.org/en/docs/Web/API/InstallEvent) to Kotlin\n */\npublic external open class InstallEvent(type: String, eventInitDict: ExtendableEventInit = definedExternally) : ExtendableEvent {\n fun registerForeignFetch(options: ForeignFetchOptions)\n\n companion object
{\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface ForeignFetchOptions {\n var scopes: Array<String>?\n var origins: Array<String>?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ForeignFetchOptions(scopes:

```
Array<String>?, origins: Array<String>?): ForeignFetchOptions {\n    val o = js(\"({})\")\n    o[\"scopes\"] = scopes\n    o[\"origins\"] = origins\n    return o\n}\n\n/**\n * Exposes the JavaScript [FetchEvent](https://developer.mozilla.org/en/docs/Web/API/FetchEvent) to Kotlin\n */\npublic external open class FetchEvent(type: String, eventInitDict: FetchEventInit) : ExtendableEvent {\n    open val request: Request\n    open val clientId: String?\n    open val isReload: Boolean\n    fun respondWith(r: Promise<Response>)\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface FetchEventInit : ExtendableEventInit {\n    var request: Request?\n    var clientId: String? /* = null */\n        get() = definedExternally\n        set(value) = definedExternally\n    var isReload: Boolean? /* = false */\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun FetchEventInit(request: Request?, clientId: String? = null, isReload: Boolean? = false, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): FetchEventInit {\n    val o = js(\"({})\")\n    o[\"request\"] = request\n    o[\"clientId\"] = clientId\n    o[\"isReload\"] = isReload\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return o\n}\n\npublic external open class ForeignFetchEvent(type: String, eventInitDict: ForeignFetchEventInit) : ExtendableEvent {\n    open val request: Request\n    open val origin: String\n    fun respondWith(r: Promise<ForeignFetchResponse>)\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface ForeignFetchEventInit : ExtendableEventInit {\n    var request: Request?\n    var origin: String? /* = \"null\" */\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ForeignFetchEventInit(request: Request?, origin: String? = \"null\", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ForeignFetchEventInit {\n    val o = js(\"({})\")\n    o[\"request\"] = request\n    o[\"origin\"] = origin\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return o\n}\n\npublic external interface ForeignFetchResponse {\n    var response: Response?\n    var origin: String?\n        get() = definedExternally\n        set(value) = definedExternally\n    var headers: Array<String>?\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ForeignFetchResponse(response: Response?, origin: String? = undefined, headers: Array<String>? = undefined): ForeignFetchResponse {\n    val o = js(\"({})\")\n    o[\"response\"] = response\n    o[\"origin\"] = origin\n    o[\"headers\"] = headers\n    return o\n}\n\n/**\n * Exposes the JavaScript [ExtendableMessageEvent](https://developer.mozilla.org/en/docs/Web/API/ExtendableMessageEvent) to Kotlin\n */\npublic external open class ExtendableMessageEvent(type: String, eventInitDict: ExtendableMessageEventInit = definedExternally) : ExtendableEvent {\n    open val data: Any?\n    open val origin: String\n    open val lastEventId: String\n    open val source: UnionClientOrMessagePortOrServiceWorker?\n    open val ports: Array<out MessagePort>?\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface ExtendableMessageEventInit : ExtendableEventInit {\n    var data: Any?\n        get() = definedExternally\n        set(value) = definedExternally\n    var origin: String?\n        get() = definedExternally\n        set(value) = definedExternally\n    var lastEventId: String?\n        get() = definedExternally\n        set(value) = definedExternally\n    var source: UnionClientOrMessagePortOrServiceWorker?\n        get() = definedExternally\n        set(value) = definedExternally\n    var ports: Array<MessagePort>?\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ExtendableMessageEventInit(data: Any? = undefined, origin: String? = undefined, lastEventId: String? = undefined, source:
```

```
UnionClientOrMessagePortOrServiceWorker? = undefined, ports: Array<MessagePort>? = undefined, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ExtendableMessageEventInit {\n val o = js(\"({})\")\n o[\"data\"] = data\n o[\"origin\"] = origin\n o[\"lastEventId\"] = lastEventId\n o[\"source\"] = source\n o[\"ports\"] = ports\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript [Cache](https://developer.mozilla.org/en/docs/Web/API/Cache) to Kotlin\n */\npublic external abstract class Cache {\n fun match(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Any?>\n fun matchAll(request: dynamic
 = definedExternally, options: CacheQueryOptions = definedExternally): Promise<Array<Response>>\n fun add(request: dynamic): Promise<Unit>\n fun addAll(requests: Array<dynamic>): Promise<Unit>\n fun put(request: dynamic, response: Response): Promise<Unit>\n fun delete(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Boolean>\n fun keys(request: dynamic = definedExternally, options: CacheQueryOptions = definedExternally): Promise<Array<Request>>\n}\n\npublic external interface CacheQueryOptions {\n var ignoreSearch: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var ignoreMethod: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var ignoreVary: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var cacheName: String?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
 \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun CacheQueryOptions(ignoreSearch: Boolean? = false, ignoreMethod: Boolean? = false, ignoreVary: Boolean? = false, cacheName: String? = undefined): CacheQueryOptions {\n val o = js(\"({})\")\n o[\"ignoreSearch\"] = ignoreSearch\n o[\"ignoreMethod\"] = ignoreMethod\n o[\"ignoreVary\"] = ignoreVary\n o[\"cacheName\"] = cacheName\n return o\n}\n\npublic external interface CacheBatchOperation {\n var type: String?\n get() = definedExternally\n set(value) = definedExternally\n var request: Request?\n get() = definedExternally\n set(value) = definedExternally\n var response: Response?\n get() = definedExternally\n set(value) = definedExternally\n var options: CacheQueryOptions?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic
 inline fun CacheBatchOperation(type: String? = undefined, request: Request? = undefined, response: Response? = undefined, options: CacheQueryOptions? = undefined): CacheBatchOperation {\n val o = js(\"({})\")\n o[\"type\"] = type\n o[\"request\"] = request\n o[\"response\"] = response\n o[\"options\"] = options\n return o\n}\n\n/**\n * Exposes the JavaScript [CacheStorage](https://developer.mozilla.org/en/docs/Web/API/CacheStorage) to Kotlin\n */\npublic external abstract class CacheStorage {\n fun match(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Any?>\n fun has(cacheName: String): Promise<Boolean>\n fun open(cacheName: String): Promise<Cache>\n fun delete(cacheName: String): Promise<Boolean>\n fun keys(): Promise<Array<String>>\n}\n\npublic external open class FunctionalEvent : ExtendableEvent {\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n
 val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface UnionMessagePortOrServiceWorker\n\npublic external interface UnionClientOrMessagePortOrServiceWorker\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface ServiceWorkerState {\n companion object\n}\n\npublic inline val ServiceWorkerState.Companion.INSTALLING: ServiceWorkerState get() = \"installing\".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val ServiceWorkerState.Companion.INSTALLED: ServiceWorkerState get() = \"installed\".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val ServiceWorkerState.Companion.ACTIVATING: ServiceWorkerState get() =
```

\"activating\".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val ServiceWorkerState.Companion.ACTIVATED: ServiceWorkerState get() = \"activated\".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val ServiceWorkerState.Companion.REDUNDANT: ServiceWorkerState get() = \"redundant\".asDynamic().unsafeCast<ServiceWorkerState>()\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface FrameType {\n    companion object\n}\n\npublic inline val FrameType.Companion.AUXILIARY: FrameType get() = \"auxiliary\".asDynamic().unsafeCast<FrameType>()\n\npublic inline val FrameType.Companion.TOP_LEVEL: FrameType get() = \"top-level\".asDynamic().unsafeCast<FrameType>()\n\npublic inline val FrameType.Companion.NESTED: FrameType get() = \"nested\".asDynamic().unsafeCast<FrameType>()\n\npublic inline val FrameType.Companion.NONE: FrameType get() = \"none\".asDynamic().unsafeCast<FrameType>()\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface ClientType {\n    companion object\n}\n\npublic inline val ClientType.Companion.WINDOW: ClientType get() = \"window\".asDynamic().unsafeCast<ClientType>()\n\npublic inline val ClientType.Companion.WORKER: ClientType get() = \"worker\".asDynamic().unsafeCast<ClientType>()\n\npublic inline val ClientType.Companion.SHAREDWORKER: ClientType get() = \"sharedworker\".asDynamic().unsafeCast<ClientType>()\n\npublic inline val ClientType.Companion.ALL: ClientType get() = \"all\".asDynamic().unsafeCast<ClientType>()","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.xhr\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\nimport org.w3c.files.*\n\n/**\n * Exposes the JavaScript [XMLHttpRequestEventTarget](https://developer.mozilla.org/en/docs/Web/API/XMLHttpRequestEventTarget) to Kotlin\n */\npublic external abstract class XMLHttpRequestEventTarget : EventTarget {\n    open var onloadstart: ((ProgressEvent) -> dynamic)?\n    open var onprogress: ((ProgressEvent) -> dynamic)?\n    open var onabort: ((Event) -> dynamic)?\n    open var onerror: ((Event) -> dynamic)?\n    open var onload: ((Event) -> dynamic)?\n    open var ontimeout: ((Event) -> dynamic)?\n    open var onloadend: ((Event) -> dynamic)?\n}\n\npublic external abstract class XMLHttpRequestUpload : XMLHttpRequestEventTarget\n\n/**\n * Exposes the JavaScript [XMLHttpRequest](https://developer.mozilla.org/en/docs/Web/API/XMLHttpRequest) to Kotlin\n */\npublic external open class XMLHttpRequest : XMLHttpRequestEventTarget {\n    var onreadystatechange: ((Event) -> dynamic)?\n    open val readyState: Short\n    var timeout: Int\n    var withCredentials: Boolean\n    open val upload: XMLHttpRequestUpload\n    open val responseURL: String\n    open val status: Short\n    open val statusText: String\n    var responseType: XMLHttpRequestResponseType\n    open val response: Any?\n    open val responseText: String\n    open val responseXML: Document?\n    fun open(method: String, url: String)\n    fun open(method: String, url: String, async: Boolean, username: String? = definedExternally, password: String? = definedExternally)\n    fun setRequestHeader(name: String, value: String)\n    fun send(body: dynamic = definedExternally)\n    fun abort()\n    fun getResponseHeader(name: String): String?\n    fun getAllResponseHeaders(): String\n    fun overrideMimeType(mime: String)\n\n    companion object {\n        val UNSENT: Short\n        val OPENED: Short\n        val HEADERS_RECEIVED: Short\n        val LOADING: Short\n        val DONE: Short\n    }\n}\n\n/**\n * Exposes the JavaScript [FormData](https://developer.mozilla.org/en/docs/Web/API/FormData) to Kotlin\n */\npublic external open class FormData(form: HTMLFormElement = definedExternally) {\n    fun append(name: String, value: String)\n    fun append(name: String, value: Blob, filename: String = definedExternally)\n    fun delete(name: String)\n    fun get(name: String): dynamic\n    fun getAll(name: String):

Array<dynamic>\n    fun has(name: String): Boolean\n    fun set(name: String, value: String)\n    fun set(name: String, value: Blob, filename: String = definedExternally)\n}\n\n/**\n * Exposes the JavaScript [ProgressEvent](https://developer.mozilla.org/en/docs/Web/API/ProgressEvent) to Kotlin\n */\npublic external open class ProgressEvent(type: String, eventInitDict: ProgressEventInit = definedExternally) : Event {\n    open val lengthComputable: Boolean\n    open val loaded: Number\n    open val total: Number\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface ProgressEventInit : EventInit {\n    var lengthComputable: Boolean? /* = false */\n        get() = definedExternally\n        set(value) = definedExternally\n    var loaded: Number? /* = 0 */\n        get() = definedExternally\n        set(value) = definedExternally\n    var total: Number? /* = 0 */\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ProgressEventInit(lengthComputable: Boolean? = false, loaded: Number? = 0, total: Number? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ProgressEventInit {\n    val o = js(\"({})\")\n    o[\"lengthComputable\"] = lengthComputable\n    o[\"loaded\"] = loaded\n    o[\"total\"] = total\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return o\n}\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface
    XMLHttpRequestResponseType {\n    companion object\n}\n\npublic inline val XMLHttpRequestResponseType.Companion.EMPTY: XMLHttpRequestResponseType get() = \"\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic inline val XMLHttpRequestResponseType.Companion.ARRAYBUFFER: XMLHttpRequestResponseType get() = \"arraybuffer\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic inline val XMLHttpRequestResponseType.Companion.BLOB: XMLHttpRequestResponseType get() = \"blob\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic inline val XMLHttpRequestResponseType.Companion.DOCUMENT: XMLHttpRequestResponseType get() = \"document\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic inline val XMLHttpRequestResponseType.Companion.JSON: XMLHttpRequestResponseType get() = \"json\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic inline val XMLHttpRequestResponseType.Companion.TEXT: XMLHttpRequestResponseType get() = \"text\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()","/*\n
 * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport kotlin.annotation.AnnotationRetention.BINARY\nimport kotlin.annotation.AnnotationRetention.SOURCE\nimport kotlin.annotation.AnnotationTarget.*\nimport kotlin.internal.RequireKotlin\nimport kotlin.internal.RequireKotlinVersionKind\nimport kotlin.reflect.KClass\n\n/**\n * Signals that the annotated annotation class is a marker of an experimental API.\n *\n * Any declaration annotated with that marker is considered an experimental declaration\n * and its call sites should accept the experimental aspect of it either by using [UseExperimental],\n * or by being annotated with that marker themselves, effectively causing further propagation of that experimental aspect.\n *\n * This class is deprecated in favor of a more
 general approach provided by [RequiresOptIn]/[OptIn].\n */\n@Target(ANNOTATION_CLASS)\n@Retention(BINARY)\n@SinceKotlin(\"1.2\")\n@RequireKotlin(\"1.2.50\", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\n@Deprecated(\"Please use RequiresOptIn instead.\")\npublic annotation class Experimental(val level: Level = Level.ERROR) {\n    /**\n     * Severity of the diagnostic that should be reported on usages of experimental API which did not explicitly accept the experimental aspect\n     * of that API either by using [UseExperimental] or by being annotated with the corresponding marker annotation.\n     */\n    public enum class Level {\n        /** Specifies that a warning should be reported on incorrect

usages of this experimental API. */\n WARNING,\n /** Specifies that an error should be reported on incorrect usages of this experimental API. */\n ERROR,\n }\n}\n\n/**\n * Allows to use experimental API denoted by the given markers in the annotated file,
declaration, or expression.\n * If a declaration is annotated with [UseExperimental], its usages are **not** required to opt-in to that experimental API.\n *\n * This class is deprecated in favor of a more general approach provided by [RequiresOptIn]/[OptIn].\n */\n@Target(\n CLASS, PROPERTY, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER, EXPRESSION, FILE,
TYPEALIAS\n)\n@Retention(SOURCE)\n@SinceKotlin(\"1.2\")\n@RequireKotlin(\"1.2.50\", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\n@Deprecated(\"Please use OptIn instead.\", ReplaceWith(\"OptIn(*markerClass)\", \"kotlin.OptIn\"))\npublic annotation class UseExperimental(\n vararg val markerClass: KClass<out Annotation>\n)\n\n\n@Target(CLASS, PROPERTY, CONSTRUCTOR, FUNCTION, TYPEALIAS)\n@Retention(BINARY)\ninternal annotation class WasExperimental(\n vararg val markerClass: KClass<out Annotation>\n)\n","package kotlin\n\nimport kotlin.annotation.AnotationTarget.*\n\n/**\n
* This annotation marks the standard library API that is considered experimental and is not subject to the\n * [general compatibility guarantees](https://kotlinlang.org/docs/reference/evolution/components-stability.html) given for the standard library:\n * the behavior of such API may be changed or the API may be removed completely in any further release.\n *\n * > Beware using the annotated API especially if you're developing a library, since your library might become binary incompatible\n * with the future versions of the standard library.\n *\n * Any usage of a declaration annotated with `@ExperimentalStdlibApi` must be accepted either by\n * annotating that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalStdlibApi::class)`,\n * or by using the compiler argument `-Xopt-in=kotlin.ExperimentalStdlibApi`.\n */\n@Suppress(\"DEPRECATION\")\n@Experimental(level = Experimental.Level.ERROR)\n@RequiresOptIn(level = RequiresOptIn.Level.ERROR)\n@Retention(AnnotationRetention.BINARY)\n@Target(\n CLASS,\n ANNOTATION_CLASS,\n PROPERTY,\n FIELD,\n LOCAL_VARIABLE,\n VALUE_PARAMETER,\n CONSTRUCTOR,\n FUNCTION,\n PROPERTY_GETTER,\n PROPERTY_SETTER,\n TYPEALIAS\n)\n@MustBeDocumented\n@SinceKotlin(\"1.3\")\npublic annotation class ExperimentalStdlibApi\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport kotlin.annotation.AnnotationTarget.*\nimport kotlin.experimental.ExperimentalTypeInference\n\n/**\n * Allows to infer generic type arguments of a function from the calls in the annotated function parameter of that function.\n *\n * When this annotation is placed on a generic function parameter of a function,\n * it enables to infer the type arguments of that generic function from the lambda body passed to that parameter.\n *\n * The calls that affect
inference are either members of the receiver type of an annotated function parameter or\n * extensions for that type. The extensions must be themselves annotated with `@BuilderInference`.\n *\n * Example: we declare\n * ```\n * fun <T> sequence(@BuilderInference block: suspend SequenceScope<T>.() -> Unit): Sequence<T>\n * ```\n * and use it like\n * ```\n * val result = sequence { yield(\"result\") }\n * ```\n * Here the type argument of the resulting sequence is inferred to `String` from\n * the argument of the [SequenceScope.yield] function, that is called inside the lambda passed to [sequence].\n *\n * Note: this annotation is experimental, see [ExperimentalTypeInference] on how to opt-in for it.\n */\n@Target(VALUE_PARAMETER, FUNCTION, PROPERTY)\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin(\"1.3\")\n@ExperimentalTypeInference\npublic annotation class BuilderInference\n\n\n/**\n * Enables overload selection based on the type of the value returned from lambda argument.\n
*\n * When two or more function overloads have otherwise the same parameter lists that differ only in the return type\n * of a functional parameter, this annotation enables overload selection by the type of the value returned from\n * the lambda function passed to this functional parameter.\n *\n * Example:\n * ```\n * @OverloadResolutionByLambdaReturnType\n * fun create(intProducer: () -> Int): Int\n *\n * fun

create(doubleProducer: () -> Double): Double\n *\n * val newValue = create { 3.14 }\n * ```\n *\n * The annotation being applied to one of overloads allows to resolve this ambiguity by analyzing what value is returned\n * from the lambda function.\n *\n * This annotation is also used to discriminate the annotated overloads in case if overload selection still cannot\n * choose one of them even taking in account the result of lambda parameter analysis. In that case a warning is reported.\n *\n * Note: this annotation is experimental, see [ExperimentalTypeInference] on how to opt-in
for it.\n
*/\n@Target(FUNCTION)\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin(\"1.4\")\n@ExperimentalTypeInference\npublic annotation class OverloadResolutionByLambdaReturnType","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport kotlin.annotation.AnnotationTarget.*\nimport kotlin.internal.RequireKotlin\nimport kotlin.internal.RequireKotlinVersionKind\n\n/**\n * The experimental multiplatform support API marker.\n *\n * Any usage of a declaration annotated with `@ExperimentalMultiplatform` must be accepted either by\n * annotating that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalMultiplatform::class)`,\n * or by using the compiler argument `-Xopt-in=kotlin.ExperimentalMultiplatform`.\n
*/\n@Suppress(\"DEPRECATION\")\n@Experimental\n@RequiresOptIn\n@MustBeDocumented\n@Target(\n CLASS,\n ANNOTATION_CLASS,\n PROPERTY,\n FIELD,\n LOCAL_VARIABLE,\n VALUE_PARAMETER,\n CONSTRUCTOR,\n FUNCTION,\n PROPERTY_GETTER,\n PROPERTY_SETTER,\n
TYPEALIAS\n)\n@Retention(AnnotationRetention.BINARY)\n@RequireKotlin(\"1.2.50\", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\npublic annotation class ExperimentalMultiplatform\n\n/**\n * Marks an expected annotation class that it isn't required to have actual counterparts in all platforms.\n *\n * This annotation is only applicable to `expect` annotation classes in multi-platform projects and marks that class as \"optional\".\n * Optional expected class is allowed to have no corresponding actual class on the platform. Optional annotations can only be used\n * to annotate something, not as types in signatures. If an optional annotation has no corresponding actual class on a platform,\n * the annotation entries where it's used are simply erased when compiling code on that platform.\n *\n *
Note: this annotation is experimental, see [ExperimentalMultiplatform] on how to opt-in for it.\n
*/\n@Target(ANNOTATION_CLASS)\n@Retention(AnnotationRetention.BINARY)\n@ExperimentalMultiplatform\n@RequireKotlin(\"1.2.50\", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\npublic annotation class OptionalExpectation\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport kotlin.annotation.AnnotationRetention.BINARY\nimport kotlin.annotation.AnnotationRetention.SOURCE\nimport kotlin.annotation.AnnotationTarget.*\nimport kotlin.internal.RequireKotlin\nimport kotlin.internal.RequireKotlinVersionKind\nimport kotlin.reflect.KClass\n\n/**\n * Signals that the annotated annotation class is a marker of an API that requires an explicit opt-in.\n *\n * Call sites of any declaration annotated with that marker
should opt in to the API either by using [OptIn],\n * or by being annotated with that marker themselves, effectively causing further propagation of the opt-in requirement.\n *\n * This class requires opt-in itself and can only be used with the compiler argument `-Xopt-in=kotlin.RequiresOptIn`.\n *\n * @property message message to be reported on usages of API without an explicit opt-in, or empty string for the default message.\n * The default message is: \"This declaration is experimental and its usage should be marked with 'Marker'\n * or '@OptIn(Marker::class)'\", where `Marker` is the opt-in requirement marker.\n * @property level specifies how usages of API without an explicit opt-in are reported in code.\n
*/\n@Target(ANNOTATION_CLASS)\n@Retention(BINARY)\n@SinceKotlin(\"1.3\")\n@RequireKotlin(\"1.3.70\", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\npublic annotation class RequiresOptIn(\n

val message: String = \"\",\n    val
level: Level = Level.ERROR\n) {\n    /**\n     * Severity of the diagnostic that should be reported on usages which did not explicitly opted into\n     * the API either by using [OptIn] or by being annotated with the corresponding marker annotation.\n     */\n    public enum class Level {\n        /** Specifies that a warning should be reported on incorrect usages of this API. */\n        WARNING,\n\n        /** Specifies that an error should be reported on incorrect usages of this API. */\n        ERROR,\n    }\n}\n\n/**\n * Allows to use the API denoted by the given markers in the annotated file, declaration, or expression.\n * If a declaration is annotated with [OptIn], its usages are **not** required to opt in to that API.\n *\n * This class requires opt-in itself and can only be used with the compiler argument `-Xopt-in=kotlin.RequiresOptIn`.\n */\n@Target(\n    CLASS, PROPERTY, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER, EXPRESSION,
FILE, TYPEALIAS\n)\n@Retention(SOURCE)\n@SinceKotlin(\"1.3\")\n@RequireKotlin(\"1.3.70\", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\npublic annotation class OptIn(\n    vararg val markerClass: KClass<out Annotation>\n)\n\","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\npackage kotlin.collections\n\nimport kotlin.js.JsName\n\n/**\n * Provides a skeletal implementation of the read-only [Collection] interface.\n *\n * @param E the type of elements contained in the collection. The collection is covariant in its element type.\n */\n@SinceKotlin(\"1.1\")\npublic abstract class AbstractCollection<out E> protected constructor() : Collection<E> {\n    abstract override val size: Int\n    abstract override fun iterator(): Iterator<E>\n\n    override fun contains(element: @UnsafeVariance E): Boolean = any { it == element
}\n\n    override fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean =\n        elements.all { contains(it) } // use when js will support bound refs: elements.all(this::contains)\n\n    override fun isEmpty(): Boolean = size == 0\n\n    override fun toString(): String = joinToString(\", \", \"[\", \"]\") {\n        if (it === this) \"(this Collection)\" else it.toString()\n    }\n\n    /**\n     * Returns new array of type `Array<Any?>` with the elements of this collection.\n     */\n    @JsName(\"toArray\")\n    protected open fun toArray(): Array<Any?> = copyToArrayImpl(this)\n\n    /**\n     * Fills the provided [array] or creates new array of the same type\n     * and fills it with the elements of this collection.\n     */\n    protected open fun <T> toArray(array: Array<T>): Array<T> = copyToArrayImpl(this, array)\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache
2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n\nprivate enum class State {\n    Ready,\n    NotReady,\n    Done,\n    Failed\n}\n\n/**\n * A base class to simplify implementing iterators so that implementations only have to implement [computeNext]\n * to implement the iterator, calling [done] when the iteration is complete.\n */\npublic abstract class AbstractIterator<T> : Iterator<T> {\n    private var state = State.NotReady\n    private var nextValue: T? = null\n\n    override fun hasNext(): Boolean {\n        require(state != State.Failed)\n        return when (state) {\n            State.Done -> false\n            State.Ready -> true\n            else -> tryToComputeNext()\n        }\n    }\n\n    override fun next(): T {\n        if (!hasNext()) throw NoSuchElementException()\n        state = State.NotReady\n        @Suppress(\"UNCHECKED_CAST\")\n        return nextValue as T\n    }\n\n    private fun tryToComputeNext(): Boolean
{\n        state = State.Failed\n        computeNext()\n        return state == State.Ready\n    }\n\n    /**\n     * Computes the next item in the iterator.\n     *\n     * This callback method should call one of these two methods:\n     *\n     * * [setNext] with the next value of the iteration\n     * * [done] to indicate there are no more elements\n     *\n     * Failure to call either method will result in the iteration terminating with a failed state\n     */\n    abstract protected fun computeNext(): Unit\n\n    /**\n     * Sets the next value in the iteration, called from the [computeNext] function\n     */\n    protected fun setNext(value: T): Unit {\n        nextValue = value\n        state = State.Ready\n    }\n\n    /**\n     * Sets the state to done so that the iteration terminates.\n     */\n    protected fun done() {\n        state = State.Done\n    }\n}\n\n\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this

source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n/*\n * Based on GWT AbstractList\n * Copyright 2007 Google Inc.\n*/\n\npackage kotlin.collections\n\n/**\n * Provides a skeletal implementation of the read-only [List] interface.\n *\n * This class is intended to help implementing read-only lists so it doesn't support concurrent modification tracking.\n *\n * @param E the type of elements contained in the list. The list is covariant in its element type.\n */\n@SinceKotlin(\"1.1\")\npublic abstract class AbstractList<out E> protected constructor() : AbstractCollection<E>(), List<E> {\n    abstract override val size: Int\n    abstract override fun get(index: Int): E\n\n    override fun iterator(): Iterator<E> = IteratorImpl()\n\n    override fun indexOf(element: @UnsafeVariance E): Int = indexOfFirst { it == element }\n\n    override fun lastIndexOf(element: @UnsafeVariance E): Int = indexOfLast { it == element }\n\n    override fun listIterator(): ListIterator<E> = ListIteratorImpl(0)\n\n    override fun listIterator(index: Int): ListIterator<E> = ListIteratorImpl(index)\n\n    override fun subList(fromIndex: Int, toIndex: Int): List<E> = SubList(this, fromIndex, toIndex)\n\n    private class SubList<out E>(private val list: AbstractList<E>, private val fromIndex: Int, toIndex: Int) : AbstractList<E>(), RandomAccess {\n        private var _size: Int = 0\n\n        init {\n            checkRangeIndexes(fromIndex, toIndex, list.size)\n            this._size = toIndex - fromIndex\n        }\n\n        override fun get(index: Int): E {\n            checkElementIndex(index, _size)\n\n            return list[fromIndex + index]\n        }\n\n        override val size: Int get() = _size\n    }\n\n    /**\n     * Compares this list with other list instance with the ordered structural equality.\n     *\n     * @return true, if [other] instance is a [List] of the same size, which contains the same elements in the same order.\n     */\n    override fun equals(other: Any?): Boolean {\n        if (other === this) return true\n        if (other !is List<*>) return false\n\n        return orderedEquals(this, other)\n    }\n\n    /**\n     * Returns the hash code value for this list.\n     */\n    override fun hashCode(): Int = orderedHashCode(this)\n\n    private open inner class IteratorImpl : Iterator<E> {\n        /** the index of the item that will be returned on the next call to [next]`()` */\n        protected var index = 0\n\n        override fun hasNext(): Boolean = index < size\n\n        override fun next(): E {\n            if (!hasNext()) throw NoSuchElementException()\n            return get(index++)\n        }\n    }\n\n    /**\n     * Implementation of [ListIterator] for abstract lists.\n     */\n    private open inner class ListIteratorImpl(index: Int) : IteratorImpl(), ListIterator<E> {\n\n        init {\n            checkPositionIndex(index, this@AbstractList.size)\n            this.index = index\n        }\n\n        override fun hasPrevious(): Boolean = index > 0\n\n        override fun nextIndex(): Int = index\n\n        override fun previous(): E {\n            if (!hasPrevious()) throw NoSuchElementException()\n            return get(--index)\n        }\n\n        override fun previousIndex(): Int = index - 1\n    }\n\n    internal companion object {\n        internal fun checkElementIndex(index: Int, size: Int) {\n            if (index < 0 || index >= size) {\n                throw IndexOutOfBoundsException(\"index: $index, size: $size\")\n            }\n        }\n\n        internal fun checkPositionIndex(index: Int, size: Int) {\n            if (index < 0 || index > size) {\n                throw IndexOutOfBoundsException(\"index: $index, size: $size\")\n            }\n        }\n\n        internal fun checkRangeIndexes(fromIndex: Int, toIndex: Int, size: Int) {\n            if (fromIndex < 0 || toIndex > size) {\n                throw IndexOutOfBoundsException(\"fromIndex: $fromIndex, toIndex: $toIndex, size: $size\")\n            }\n            if (fromIndex > toIndex) {\n                throw IllegalArgumentException(\"fromIndex: $fromIndex > toIndex: $toIndex\")\n            }\n        }\n\n        internal fun checkBoundsIndexes(startIndex: Int, endIndex: Int, size: Int) {\n            if (startIndex < 0 || endIndex > size) {\n                throw IndexOutOfBoundsException(\"startIndex: $startIndex, endIndex: $endIndex, size: $size\")\n            }\n            if (startIndex > endIndex) {\n                throw IllegalArgumentException(\"startIndex: $startIndex > endIndex: $endIndex\")\n            }\n        }\n\n        internal fun orderedHashCode(c: Collection<*>): Int {\n            var hashCode = 1\n            for (e in c) {\n                hashCode = 31 * hashCode + (e?.hashCode() ?: 0)\n            }\n            return hashCode\n        }\n\n        internal fun orderedEquals(c: Collection<*>, other: Collection<*>): Boolean {\n            if (c.size != other.size) return false\n\n            val otherIterator = other.iterator()\n            for (elem in c) {\n                val elemOther = otherIterator.next()\n                if (elem != elemOther) {\n                    return false\n                }\n            }\n            return true\n        }\n    }\n}","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be

found in the license/LICENSE.txt file.\n */\n\n/*\n * Based on GWT AbstractMap\n * Copyright 2007 Google Inc.\n */\n\npackage kotlin.collections\n\n/**\n * Provides a skeletal implementation of the read-only [Map] interface.\n *\n * The implementor is required to implement [entries] property, which should return read-only set of map entries.\n *\n * @param K the type of map keys. The map is invariant in its key type.\n * @param V the type of map values. The map is covariant in
its value type.\n */\n@SinceKotlin(\"1.1\")\npublic abstract class AbstractMap<K, out V> protected constructor() : Map<K, V> {\n\n    override fun containsKey(key: K): Boolean {\n        return implFindEntry(key) != null\n    }\n\n    override fun containsValue(value: @UnsafeVariance V): Boolean = entries.any { it.value == value }\n\n    internal fun containsEntry(entry: Map.Entry<*, *>?): Boolean {\n        // since entry comes from @UnsafeVariance parameters it can be virtually anything\n        if (entry !is Map.Entry<*, *>) return false\n        val key = entry.key\n        val value = entry.value\n        val ourValue = get(key)\n\n        if (value != ourValue) {\n            return false\n        }\n\n        // Perhaps it was null and we don't contain the key?\n        if (ourValue == null && !containsKey(key)) {\n            return false\n        }\n\n        return true\n    }\n\n    /**\n     * Compares this map with other instance with the ordered structural equality.\n
     *\n     * @return true, if [other] instance is a [Map] of the same size, all entries of which are contained in the [entries] set of this map.\n     */\n    override fun equals(other: Any?): Boolean {\n        if (other === this) return true\n        if (other !is Map<*, *>) return false\n        if (size != other.size) return false\n\n        return other.entries.all { containsEntry(it) }\n    }\n\n    override operator fun get(key: K): V? = implFindEntry(key)?.value\n\n\n    /**\n     * Returns the hash code value for this map.\n     *\n     * It is the same as the hashCode of [entries] set.\n     */\n    override fun hashCode(): Int = entries.hashCode()\n\n    override fun isEmpty(): Boolean = size == 0\n    override val size: Int get() = entries.size\n\n    /**\n     * Returns a read-only [Set] of all keys in this map.\n     *\n     * Accessing this property first time creates a keys view from [entries].\n     * All subsequent accesses just return the created instance.\n     */\n
    override val keys: Set<K>\n        get() {\n            if (_keys == null) {\n                _keys = object : AbstractSet<K>() {\n                    override operator fun contains(element: K): Boolean = containsKey(element)\n\n                    override operator fun iterator(): Iterator<K> {\n                        val entryIterator = entries.iterator()\n                        return object : Iterator<K> {\n                            override fun hasNext(): Boolean = entryIterator.hasNext()\n                            override fun next(): K = entryIterator.next().key\n                        }\n                    }\n\n                    override val size: Int get() = this@AbstractMap.size\n                }\n            }\n            return _keys!!\n        }\n\n    @kotlin.jvm.Volatile\n    private var _keys: Set<K>? = null\n\n\n    override fun toString(): String = entries.joinToString(\", \", \"{\", \"}\") { toString(it) }\n\n    private fun toString(entry: Map.Entry<K, V>): String = toString(entry.key) + \"=\" + toString(entry.value)\n\n    private fun toString(o: Any?): String = if (o === this) \"(this Map)\" else o.toString()\n\n    /**\n     * Returns a read-only [Collection] of all values in this map.\n
     *\n     * Accessing this property first time creates a values view from [entries].\n     * All subsequent accesses just return the created instance.\n     */\n    override val values: Collection<V>\n        get() {\n            if (_values == null) {\n                _values = object : AbstractCollection<V>() {\n                    override operator fun contains(element: @UnsafeVariance V): Boolean = containsValue(element)\n\n                    override operator fun iterator(): Iterator<V> {\n                        val entryIterator = entries.iterator()\n                        return object : Iterator<V> {\n                            override fun hasNext(): Boolean = entryIterator.hasNext()\n                            override fun next(): V = entryIterator.next().value\n                        }\n                    }\n\n                    override val size: Int get() = this@AbstractMap.size\n                }\n            }\n            return _values!!\n        }\n\n    @kotlin.jvm.Volatile\n    private var _values: Collection<V>? = null\n\n    private fun implFindEntry(key: K): Map.Entry<K, V>? = entries.firstOrNull { it.key == key }\n\n    internal companion object {\n\n        internal fun entryHashCode(e: Map.Entry<*, *>): Int = with(e) { (key?.hashCode() ?: 0) xor (value?.hashCode() ?: 0) }\n        internal fun entryToString(e: Map.Entry<*, *>): String = with(e) { \"$key=$value\" }\n        internal fun entryEquals(e: Map.Entry<*, *>, other: Any?): Boolean {\n            if (other !is Map.Entry<*, *>) return false\n            return e.key == other.key && e.value == other.value\n        }\n    }\n}\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this

source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\npackage kotlin.collections\n\n/**\n * Provides a skeletal implementation of the read-only [Set] interface.\n *\n * This class is intended to help implementing read-only sets so it doesn't support concurrent modification tracking.\n *\n * @param E the type of elements contained in the set. The set is covariant in its element type.\n */\n@SinceKotlin(\"1.1\")\npublic abstract class AbstractSet<out E> protected constructor() : AbstractCollection<E>(), Set<E> {\n\n    /**\n     * Compares this set with other set instance with the unordered structural equality.\n     *\n     * @return true, if [other] instance is a [Set] of the same size, all elements of which are contained in this set.\n     */\n    override fun equals(other: Any?): Boolean {\n        if (other === this) return true\n        if (other !is Set<*>) return false\n        return setEquals(this, other)\n    }\n\n    /**\n     * Returns the hash code value for this set.\n     */\n    override fun hashCode(): Int = unorderedHashCode(this)\n\n    internal companion object {\n        internal fun unorderedHashCode(c: Collection<*>): Int {\n            var hashCode = 0\n            for (element in c) {\n                hashCode += (element?.hashCode() ?: 0)\n            }\n            return hashCode\n        }\n\n        internal fun setEquals(c: Set<*>, other: Set<*>): Boolean {\n            if (c.size != other.size) return false\n            return c.containsAll(other)\n        }\n    }\n\n}","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n/**\n * Resizable-array implementation of the deque data structure.\n *\n * The name deque is short for \"double ended queue\" and is usually pronounced \"deck\".\n *\n * The collection provide methods for convenient access to the both ends.\n * It also implements [MutableList] interface and supports efficient get/set operations by index.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic class ArrayDeque<E> : AbstractMutableList<E> {\n    private var head: Int = 0\n    private var elementData: Array<Any?>\n\n    override var size: Int = 0\n        private set\n\n    /**\n     * Constructs an empty deque with specified [initialCapacity], or throws [IllegalArgumentException] if [initialCapacity] is negative.\n     */\n    public constructor(initialCapacity: Int) {\n        elementData = when {\n            initialCapacity == 0 -> emptyElementData\n            initialCapacity > 0 -> arrayOfNulls(initialCapacity)\n            else -> throw IllegalArgumentException(\"Illegal Capacity: $initialCapacity\")\n        }\n    }\n\n    /**\n     * Constructs an empty deque.\n     */\n    public constructor() {\n        elementData = emptyElementData\n    }\n\n    /**\n     * Constructs a deque that contains the same elements as the specified [elements] collection in the same order.\n     */\n    public constructor(elements: Collection<E>) {\n        elementData = elements.toTypedArray()\n        size = elementData.size\n        if (elementData.isEmpty()) elementData = emptyElementData\n    }\n\n    /**\n     * Ensures that the capacity of this deque is at least equal to the specified [minCapacity].\n     *\n     * If the current capacity is less than the [minCapacity], a new backing storage is allocated with greater capacity.\n     * Otherwise, this method takes no action and simply returns.\n     */\n    private fun ensureCapacity(minCapacity: Int) {\n        if (minCapacity < 0) throw IllegalStateException(\"Deque is too big.\")  // overflow\n        if (minCapacity <= elementData.size) return\n        if (elementData === emptyElementData) {\n            elementData = arrayOfNulls(minCapacity.coerceAtLeast(defaultMinCapacity))\n            return\n        }\n\n        val newCapacity = newCapacity(elementData.size, minCapacity)\n        copyElements(newCapacity)\n    }\n\n    /**\n     * Creates a new array with the specified [newCapacity] size and copies elements in the [elementData] array to it.\n     */\n    private fun copyElements(newCapacity: Int) {\n        val newElements = arrayOfNulls<Any?>(newCapacity)\n        elementData.copyInto(newElements, 0, head, elementData.size)\n        elementData.copyInto(newElements, elementData.size - head, 0, head)\n        head = 0\n        elementData = newElements\n    }\n\n    @kotlin.internal.InlineOnly\n    private inline fun internalGet(internalIndex: Int): E {\n        @Suppress(\"UNCHECKED_CAST\")\n        return elementData[internalIndex] as E\n    }\n\n    private fun positiveMod(index: Int): Int = if (index >= elementData.size) index - elementData.size else index\n\n    private fun negativeMod(index: Int): Int = if (index < 0) index + elementData.size

```
else index\n\n    @kotlin.internal.InlineOnly\n    private inline fun internalIndex(index: Int): Int = positiveMod(head + index)\n\n    private fun incremented(index: Int): Int = if (index == elementData.lastIndex) 0 else index + 1\n\n private fun decremented(index: Int): Int = if (index == 0) elementData.lastIndex else index - 1\n\n    override fun isEmpty(): Boolean = size == 0\n\n    /**\n     * Returns the first element, or throws [NoSuchElementException] if this deque is empty.\n     */\n    public fun first(): E = if (isEmpty()) throw NoSuchElementException(\"ArrayDeque is empty.\") else internalGet(head)\n\n    /**\n     * Returns the first element, or `null` if this deque is empty.\n     */\n    public fun firstOrNull(): E? = if (isEmpty()) null else internalGet(head)\n\n    /**\n     * Returns the last element, or throws [NoSuchElementException] if this deque is empty.\n     */\n    public fun last(): E = if (isEmpty()) throw NoSuchElementException(\"ArrayDeque
is empty.\") else internalGet(internalIndex(lastIndex))\n\n    /**\n     * Returns the last element, or `null` if this deque is empty.\n     */\n    public fun lastOrNull(): E? = if (isEmpty()) null else internalGet(internalIndex(lastIndex))\n\n    /**\n     * Prepends the specified [element] to this deque.\n     */\n    public fun addFirst(element: E) {\n        ensureCapacity(size + 1)\n\n        head = decremented(head)\n        elementData[head] = element\n        size += 1\n    }\n\n    /**\n     * Appends the specified [element] to this deque.\n     */\n    public fun addLast(element: E) {\n        ensureCapacity(size + 1)\n\n        elementData[internalIndex(size)] = element\n        size += 1\n    }\n\n    /**\n     * Removes the first element from this deque and returns that removed element, or throws [NoSuchElementException] if this deque is empty.\n     */\n    public fun removeFirst(): E {\n        if (isEmpty()) throw NoSuchElementException(\"ArrayDeque is empty.\")\n\n        val element = internalGet(head)\n        elementData[head] = null\n        head = incremented(head)\n        size -= 1\n        return element\n    }\n\n    /**\n     * Removes the first element from this deque and returns that removed element, or returns `null` if this deque is empty.\n     */\n    public fun removeFirstOrNull(): E? = if (isEmpty()) null else removeFirst()\n\n    /**\n     * Removes the last element from this deque and returns that removed element, or throws [NoSuchElementException] if this deque is empty.\n     */\n    public fun removeLast(): E {\n        if (isEmpty()) throw NoSuchElementException(\"ArrayDeque is empty.\")\n\n        val internalLastIndex = internalIndex(lastIndex)\n        val element = internalGet(internalLastIndex)\n        elementData[internalLastIndex] = null\n        size -= 1\n        return element\n    }\n\n    /**\n     * Removes the last element from this deque and returns that removed element, or returns `null` if this deque is
empty.\n     */\n    public fun removeLastOrNull(): E? = if (isEmpty()) null else removeLast()\n\n    // MutableList, MutableCollection\n    public override fun add(element: E): Boolean {\n        addLast(element)\n        return true\n    }\n\n    public override fun add(index: Int, element: E) {\n        AbstractList.checkPositionIndex(index, size)\n\n        if (index == size) {\n            addLast(element)\n            return\n        } else if (index == 0) {\n            addFirst(element)\n            return\n        }\n\n        ensureCapacity(size + 1)\n\n        // Elements in circular array lay in 2 ways:\n        //   1. `head` is less than `tail`:     [#, #, e1, e2, e3, #]\n        //   2. `head` is greater than `tail`:  [e3, #, #, #, e1, e2]\n        // where head is the index of the first element in the circular array,\n        // and tail is the index following the last element.\n        //\n        // At this point the insertion index is not equal to head or tail.\n
        // Also the circular array can store at least one more element.\n        //\n        // Depending on where the given element must be inserted the preceding or the succeeding\n        // elements will be shifted to make room for the element to be inserted.\n        //\n        // In case the preceding elements are shifted:\n        //   * if the insertion index is greater than the head (regardless of circular array form)\n        //     -> shift the preceding elements\n        //   * otherwise, the circular array has (2) form and the insertion index is less than tail\n        //     -> shift all elements in the back of the array\n        //     -> shift preceding elements in the front of the array\n        // In case the succeeding elements are shifted:\n        //   * if the insertion index is less than the tail (regardless of circular array form)\n        //     -> shift the succeeding elements\n        //   * otherwise, the circular array has (2) form and the insertion index is greater than head\n        //     -> shift all elements in the front of the array\n        //     -> shift succeeding elements in the back of the array\n\n        val internalIndex = internalIndex(index)\n\n        if (index < (size + 1) shr 1) {\n            // closer to the first element -> shift preceding elements\n            val decrementedInternalIndex = decremented(internalIndex)\n            val decrementedHead = decremented(head)\n\n            if (decrementedInternalIndex >= head) {\n                elementData[decrementedHead] = elementData[head]  // head can
```

```
be zero\n                elementData.copyInto(elementData, head, head + 1, decrementedInternalIndex + 1)\n            } else { // head > tail\n                elementData.copyInto(elementData, head - 1, head, elementData.size) // head can't be zero\n                elementData[elementData.size - 1] = elementData[0]\n                elementData.copyInto(elementData, 0, 1, decrementedInternalIndex + 1)\n            }\n\n            elementData[decrementedInternalIndex] = element\n            head = decrementedHead\n        } else {\n            // closer to the last element -> shift succeeding elements\n            val tail = internalIndex(size)\n\n            if (internalIndex < tail) {\n                elementData.copyInto(elementData, internalIndex + 1, internalIndex, tail)\n            } else { // head > tail\n                elementData.copyInto(elementData, 1, 0, tail)\n                elementData[0] = elementData[elementData.size - 1]\n                elementData.copyInto(elementData, internalIndex + 1, internalIndex, elementData.size - 1)\n            }\n\n            elementData[internalIndex] = element\n        }\n        size += 1\n    }\n\n    private fun copyCollectionElements(internalIndex: Int, elements: Collection<E>) {\n        val iterator = elements.iterator()\n\n        for (index in internalIndex until elementData.size) {\n            if (!iterator.hasNext()) break\n            elementData[index] = iterator.next()\n        }\n        for (index in 0 until head) {\n            if (!iterator.hasNext()) break\n            elementData[index] = iterator.next()\n        }\n\n        size += elements.size\n    }\n\n    public override fun addAll(elements: Collection<E>): Boolean {\n        if (elements.isEmpty()) return false\n        ensureCapacity(this.size + elements.size)\n        copyCollectionElements(internalIndex(size), elements)\n        return true\n    }\n\n    public override fun addAll(index: Int, elements: Collection<E>): Boolean {\n        AbstractList.checkPositionIndex(index, size)\n\n        if (elements.isEmpty()) {\n            return false\n        } else if (index == size) {\n            return addAll(elements)\n        }\n\n        ensureCapacity(this.size + elements.size)\n\n        val tail = internalIndex(size)\n        val internalIndex = internalIndex(index)\n        val elementsSize = elements.size\n\n        if (index < (size + 1)
            shr 1) {\n            // closer to the first element -> shift preceding elements\n\n            var shiftedHead = head - elementsSize\n\n            if (internalIndex >= head) {\n                if (shiftedHead >= 0) {\n                    elementData.copyInto(elementData, shiftedHead, head, internalIndex)\n                } else { // head < tail, insertion leads to head >= tail\n                    shiftedHead += elementData.size\n                    val elementsToShift = internalIndex - head\n                    val shiftToBack = elementData.size - shiftedHead\n\n                    if (shiftToBack >= elementsToShift) {\n                        elementData.copyInto(elementData, shiftedHead, head, internalIndex)\n                    } else {\n                        elementData.copyInto(elementData, shiftedHead, head, head + shiftToBack)\n                        elementData.copyInto(elementData, 0, head + shiftToBack, internalIndex)\n                    }\n                }\n            } else { // head > tail, internalIndex < tail\n                elementData.copyInto(elementData, shiftedHead, head, elementData.size)\n                if (elementsSize >= internalIndex) {\n                    elementData.copyInto(elementData, elementData.size - elementsSize, 0, internalIndex)\n                } else {\n                    elementData.copyInto(elementData, elementData.size - elementsSize, 0, elementsSize)\n                    elementData.copyInto(elementData, 0, elementsSize, internalIndex)\n                }\n            }\n            head = shiftedHead\n            copyCollectionElements(negativeMod(internalIndex - elementsSize), elements)\n        } else {\n            // closer to the last element -> shift succeeding elements\n\n            val shiftedInternalIndex = internalIndex + elementsSize\n\n            if (internalIndex < tail) {\n                if (tail + elementsSize <= elementData.size) {\n                    elementData.copyInto(elementData, shiftedInternalIndex, internalIndex, tail)\n                } else { // head < tail, insertion leads to head >= tail\n                    if (shiftedInternalIndex >= elementData.size) {\n                        elementData.copyInto(elementData, shiftedInternalIndex - elementData.size, internalIndex, tail)\n                    } else {\n                        val shiftToFront = tail + elementsSize - elementData.size\n                        elementData.copyInto(elementData, 0, tail - shiftToFront, tail)\n                        elementData.copyInto(elementData, shiftedInternalIndex, internalIndex, tail - shiftToFront)\n                    }\n                }\n            } else { // head > tail, internalIndex > head\n                elementData.copyInto(elementData, elementsSize, 0, tail)\n                if (shiftedInternalIndex >= elementData.size) {\n                    elementData.copyInto(elementData, shiftedInternalIndex - elementData.size, internalIndex, elementData.size)\n
```

```
} else {\n elementData.copyInto(elementData, 0, elementData.size - elementsSize, elementData.size)\n elementData.copyInto(elementData, shiftedInternalIndex, internalIndex, elementData.size - elementsSize)\n }\n }\n copyCollectionElements(internalIndex, elements)\n }\n\n return true\n }\n\n public override fun get(index: Int): E {\n AbstractList.checkElementIndex(index, size)\n\n return internalGet(internalIndex(index))\n }\n\n public override fun set(index: Int, element: E): E {\n AbstractList.checkElementIndex(index, size)\n\n val internalIndex = internalIndex(index)\n val oldElement = internalGet(internalIndex)\n elementData[internalIndex] = element\n\n return oldElement\n }\n\n public override fun contains(element: E): Boolean = indexOf(element) != -1\n\n public override fun indexOf(element: E): Int {\n val tail = internalIndex(size)\n\n if (head < tail) {\n for (index in head until tail) {\n if (element == elementData[index]) return index - head\n }\n } else if (head >= tail) {\n for (index in head until elementData.size) {\n if (element == elementData[index]) return index - head\n }\n for (index in 0 until tail) {\n if (element == elementData[index]) return index + elementData.size - head\n }\n }\n\n return -1\n }\n\n public override fun lastIndexOf(element: E): Int {\n val tail = internalIndex(size)\n\n if (head < tail) {\n for (index in tail - 1 downTo head) {\n if (element == elementData[index]) return index - head\n }\n } else if (head > tail) {\n for (index in tail - 1 downTo 0) {\n if (element == elementData[index]) return index + elementData.size - head\n }\n for (index in elementData.lastIndex downTo head) {\n if (element == elementData[index]) return index - head\n }\n }\n\n return -1\n }\n\n public override fun remove(element: E): Boolean {\n val index = indexOf(element)\n if (index == -1) return false\n removeAt(index)\n return true\n }\n\n public override fun removeAt(index: Int): E {\n AbstractList.checkElementIndex(index, size)\n\n if (index == lastIndex) {\n return removeLast()\n } else if (index == 0) {\n return removeFirst()\n }\n\n val internalIndex = internalIndex(index)\n val element = internalGet(internalIndex)\n\n if (index < size shr 1) {\n // closer to the first element -> shift preceding elements\n if (internalIndex >= head) {\n elementData.copyInto(elementData, head + 1, head, internalIndex)\n } else { // head > tail, internalIndex < head\n elementData.copyInto(elementData, 1, 0, internalIndex)\n elementData[0] = elementData[elementData.size - 1]\n elementData.copyInto(elementData, head + 1, head, elementData.size - 1)\n }\n\n elementData[head] = null\n head = incremented(head)\n } else {\n // closer to the last element -> shift succeeding elements\n val internalLastIndex = internalIndex(lastIndex)\n\n if (internalIndex <= internalLastIndex) {\n elementData.copyInto(elementData, internalIndex, internalIndex + 1, internalLastIndex + 1)\n } else { // head > tail, internalIndex > head\n elementData.copyInto(elementData, internalIndex, internalIndex + 1, elementData.size)\n elementData[elementData.size - 1] = elementData[0]\n elementData.copyInto(elementData, 0, 1, internalLastIndex + 1)\n }\n\n elementData[internalLastIndex] = null\n }\n size -= 1\n\n return element\n }\n\n public override fun removeAll(elements: Collection<E>): Boolean = filterInPlace { !elements.contains(it) }\n\n public override fun retainAll(elements: Collection<E>): Boolean = filterInPlace { elements.contains(it) }\n\n private inline fun filterInPlace(predicate: (E) -> Boolean): Boolean {\n if (this.isEmpty() || elementData.isEmpty())\n return false\n\n val tail = internalIndex(size)\n var newTail = head\n var modified = false\n\n if (head < tail) {\n for (index in head until tail) {\n val element = elementData[index]\n\n @Suppress(\"UNCHECKED_CAST\")\n if (predicate(element as E))\n elementData[newTail++] = element\n else\n modified = true\n }\n\n elementData.fill(null, newTail, tail)\n\n } else {\n for (index in head until elementData.size) {\n val element = elementData[index]\n elementData[index] = null\n\n @Suppress(\"UNCHECKED_CAST\")\n if (predicate(element as E))\n elementData[newTail++] = element\n else\n modified = true\n }\n\n newTail = positiveMod(newTail)\n\n for (index in 0 until tail) {\n val element = elementData[index]\n elementData[index] = null\n\n
```

```
@Suppress(\"UNCHECKED_CAST\")\n                if (predicate(element as E)) {\n
elementData[newTail] = element\n                    newTail = incremented(newTail)\n                } else {\n
modified = true\n                }\n            }\n        }\n        if (modified)\n            size = negativeMod(newTail -
head)\n\n        return modified\n    }\n\n
  public override fun clear() {\n        val tail = internalIndex(size)\n        if (head < tail) {\n
elementData.fill(null, head, tail)\n        } else if (isNotEmpty()) {\n            elementData.fill(null, head,
elementData.size)\n            elementData.fill(null, 0, tail)\n        }\n        head = 0\n        size = 0\n    }\n\n
@Suppress(\"NOTHING_TO_OVERRIDE\")\n    override fun <T> toArray(array: Array<T>): Array<T> {\n
@Suppress(\"UNCHECKED_CAST\")\n        val dest = (if (array.size >= size) array else arrayOfNulls(array, size))
as Array<Any?>\n\n        val tail = internalIndex(size)\n        if (head < tail) {\n            elementData.copyInto(dest,
startIndex = head, endIndex = tail)\n        } else if (isNotEmpty()) {\n            elementData.copyInto(dest,
destinationOffset = 0, startIndex = head, endIndex = elementData.size)\n            elementData.copyInto(dest,
destinationOffset = elementData.size - head, startIndex = 0, endIndex = tail)\n
  }\n        if (dest.size > size) {\n            dest[size] = null // null-terminate\n        }\n\n
@Suppress(\"UNCHECKED_CAST\")\n        return dest as Array<T>\n    }\n\n
@Suppress(\"NOTHING_TO_OVERRIDE\")\n    override fun toArray(): Array<Any?> {\n        return
toArray(arrayOfNulls<Any?>(size))\n    }\n\n    // for testing\n    internal fun <T> testToArray(array: Array<T>):
Array<T> = toArray(array)\n    internal fun testToArray(): Array<Any?> = toArray()\n\n    internal companion
object {\n        private val emptyElementData = emptyArray<Any?>()\n        private const val maxArraySize =
Int.MAX_VALUE - 8\n        private const val defaultMinCapacity = 10\n\n        internal fun
newCapacity(oldCapacity: Int, minCapacity: Int): Int {\n            // overflow-conscious\n            var newCapacity =
oldCapacity + (oldCapacity shr 1)\n            if (newCapacity - minCapacity < 0)\n                newCapacity =
minCapacity\n            if (newCapacity - maxArraySize > 0)\n
                newCapacity = if (minCapacity > maxArraySize) Int.MAX_VALUE else maxArraySize\n            return
newCapacity\n        }\n    }\n\n    // For testing only\n    internal fun internalStructure(structure: (head: Int, elements:
Array<Any?>) -> Unit) {\n        val tail = internalIndex(size)\n        val head = if (isEmpty() || head < tail) head else
head - elementData.size\n        structure(head, toArray())\n    }\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"ArraysKt\")\n\n\npackage
kotlin.collections\n\nimport kotlin.contracts.*\n\n\n/**\n * Returns a single list of all elements from all arrays in the
given array.\n * @sample samples.collections.Arrays.Transformations.flattenArray\n */\npublic fun <T> Array<out
Array<out T>>.flatten(): List<T>
 {\n    val result = ArrayList<T>(sumOf { it.size })\n    for (element in this) {\n        result.addAll(element)\n    }\n
return result\n}\n\n/**\n * Returns a pair of lists, where\n * *first* list is built from the first values of each pair from
this array,\n * *second* list is built from the second values of each pair from this array.\n * @sample
samples.collections.Arrays.Transformations.unzipArray\n */\npublic fun <T, R> Array<out Pair<T, R>>.unzip():
Pair<List<T>, List<R>> {\n    val listT = ArrayList<T>(size)\n    val listR = ArrayList<R>(size)\n    for (pair in
this) {\n        listT.add(pair.first)\n        listR.add(pair.second)\n    }\n    return listT to listR\n}\n\n/**\n * Returns
`true` if this nullable array is either null or empty.\n * @sample
samples.collections.Arrays.Usage.arrayIsNullOrEmpty\n
*/\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun Array<*>?.isNullOrEmpty(): Boolean
{\n    contract {\n        returns(false) implies (this@isNullOrEmpty
 != null)\n    }\n\n    return this == null || this.isEmpty()\n}\n\n/**\n * Returns this array if it's not empty\n * or the
result of calling [defaultValue] function if the array is empty.\n *\n * @sample
samples.collections.Arrays.Usage.arrayIfEmpty\n
*/\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"UPPER_BOUND_CANNOT_BE_ARRAY\
")\npublic inline fun <C, R> C.ifEmpty(defaultValue: () -> R): R where C : Array<*>, C : R =\n    if (isEmpty())
```

defaultValue() else this\n\n\n@OptIn(ExperimentalUnsignedTypes::class)\n@SinceKotlin(\"1.3\")\n@PublishedApi\n@kotlin.jvm.JvmName(\"contentDeepEquals\")\n@kotlin.js.JsName(\"contentDeepEqualsImpl\")\ninternal fun <T> Array<out T>?.contentDeepEqualsImpl(other: Array<out T>?): Boolean {\n if (this === other) return true\n if (this == null || other == null || this.size != other.size) return false\n\n for (i in indices) {\n val v1 = this[i]\n val v2 = other[i]\n\n if (v1 === v2) {\n continue\n } else if (v1 == null || v2 == null) {\n return false\n }\n\n when {\n v1 is Array<*> && v2 is Array<*> -> if (!v1.contentDeepEquals(v2)) return false\n v1 is ByteArray && v2 is ByteArray -> if (!v1.contentEquals(v2)) return false\n v1 is ShortArray && v2 is ShortArray -> if (!v1.contentEquals(v2)) return false\n v1 is IntArray && v2 is IntArray -> if (!v1.contentEquals(v2)) return false\n v1 is LongArray && v2 is LongArray -> if (!v1.contentEquals(v2)) return false\n v1 is FloatArray && v2 is FloatArray -> if (!v1.contentEquals(v2)) return false\n v1 is DoubleArray && v2 is DoubleArray -> if (!v1.contentEquals(v2)) return false\n v1 is CharArray && v2 is CharArray -> if (!v1.contentEquals(v2)) return false\n v1 is BooleanArray && v2 is BooleanArray -> if (!v1.contentEquals(v2)) return false\n\n v1 is UByteArray && v2 is UByteArray -> if (!v1.contentEquals(v2)) return false\n v1 is UShortArray && v2 is UShortArray -> if (!v1.contentEquals(v2)) return false\n v1 is UIntArray && v2 is UIntArray -> if (!v1.contentEquals(v2)) return false\n v1 is ULongArray && v2 is ULongArray -> if (!v1.contentEquals(v2)) return false\n\n else -> if (v1 != v2) return false\n }\n\n }\n return true\n}\n\n@SinceKotlin(\"1.3\")\n@PublishedApi\n@kotlin.jvm.JvmName(\"contentDeepToString\")\n@kotlin.js.JsName(\"contentDeepToStringImpl\")\ninternal fun <T> Array<out T>?.contentDeepToStringImpl(): String {\n if (this == null) return \"null\"\n val length = size.coerceAtMost((Int.MAX_VALUE - 2) / 5) * 5 + 2 // in order not to overflow Int.MAX_VALUE\n return buildString(length) {\n contentDeepToStringInternal(this, mutableListOf())\n }\n}\n\n@OptIn(ExperimentalUnsignedTypes::class)\nprivate fun <T> Array<out T>.contentDeepToStringInternal(result: StringBuilder, processed: MutableList<Array<*>>) {\n if (this in processed) {\n result.append(\"[...]\")\n return\n }\n processed.add(this)\n result.append('[')\n\n for (i in indices) {\n if (i != 0) {\n result.append(\", \")\n }\n val element = this[i]\n when (element) {\n null -> result.append(\"null\")\n is Array<*> -> element.contentDeepToStringInternal(result, processed)\n is ByteArray -> result.append(element.contentToString())\n is ShortArray -> result.append(element.contentToString())\n is IntArray -> result.append(element.contentToString())\n is LongArray -> result.append(element.contentToString())\n is FloatArray -> result.append(element.contentToString())\n is DoubleArray -> result.append(element.contentToString())\n is CharArray -> result.append(element.contentToString())\n is BooleanArray -> result.append(element.contentToString())\n\n is UByteArray -> result.append(element.contentToString())\n is UShortArray -> result.append(element.contentToString())\n is UIntArray -> result.append(element.contentToString())\n is ULongArray -> result.append(element.contentToString())\n\n else -> result.append(element.toString())\n }\n }\n\n result.append(']')\n processed.removeAt(processed.lastIndex)\n}","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n\n/** Returns true if the brittle contains optimization is enabled. See KT-45438. */\ninternal expect fun brittleContainsOptimizationEnabled(): Boolean\n\n/**\n * Returns true if [brittleContainsOptimizationEnabled] is true\n * and it's safe to convert this collection to a set without changing contains method behavior.\n */\nprivate fun <T> Collection<T>.safeToConvertToSet() = brittleContainsOptimizationEnabled() && size > 2 && this is ArrayList\n\n/**\n * When [brittleContainsOptimizationEnabled] is true:\n * - Converts this [Iterable] to a set if it is not a [Collection].\n * - Converts this [Collection] to a set, when it's worth so and it doesn't change contains method behavior.\n * - Otherwise returns this.\n * When [brittleContainsOptimizationEnabled] is false:\n * - Converts this

[Iterable] to a list if it is not a [Collection].\n * - Otherwise returns this.\n */\ninternal fun <T> Iterable<T>.convertToSetForSetOperationWith(source: Iterable<T>): Collection<T> =\n when (this) {\n is Set -> this\n is Collection ->\n when {\n source is Collection && source.size < 2 -> this\n else -> if (this.safeToConvertToSet()) toHashSet()
else this\n }\n else -> if (brittleContainsOptimizationEnabled()) toHashSet() else toList()\n }\n\n/**\n * When [brittleContainsOptimizationEnabled] is true:\n * - Converts this [Iterable] to a set if it is not a [Collection].\n * - Converts this [Collection] to a set, when it's worth so and it doesn't change contains method behavior.\n * - Otherwise returns this.\n * When [brittleContainsOptimizationEnabled] is false:\n * - Converts this [Iterable] to a list if it is not a [Collection].\n * - Otherwise returns this.\n */\ninternal fun <T> Iterable<T>.convertToSetForSetOperation(): Collection<T> =\n when (this) {\n is Set -> this\n is Collection -> if (this.safeToConvertToSet()) toHashSet() else this\n else -> if (brittleContainsOptimizationEnabled()) toHashSet() else toList()\n }\n\n/**\n * Converts this sequence to a set if [brittleContainsOptimizationEnabled] is true,\n * otherwise converts it to a list.\n */\ninternal fun <T> Sequence<T>.convertToSetForSetOperation():
Collection<T> =\n if (brittleContainsOptimizationEnabled()) toHashSet() else toList()\n\n/**\n * Converts this array to a set if [brittleContainsOptimizationEnabled] is true,\n * otherwise converts it to a list.\n */\ninternal fun <T> Array<T>.convertToSetForSetOperation(): Collection<T> =\n if (brittleContainsOptimizationEnabled()) toHashSet() else asList()","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n/**\n * Data class representing a value from a collection or sequence, along with its index in that collection or sequence.\n *\n * @property value the underlying value.\n * @property index the index of the value in the collection or sequence.\n */\npublic data class IndexedValue<out T>(public val index: Int, public val value: T)\n","/*\n * Copyright
2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmName(\"MapAccessorsKt\")\n\npackage kotlin.collections\n\nimport kotlin.reflect.KProperty\nimport kotlin.internal.Exact\n\n/**\n * Returns the value of the property for the given object from this read-only map.\n * @param thisRef the object for which the value is requested (not used).\n * @param property the metadata for the property, used to get the name of property and lookup the value corresponding to this name in the map.\n * @return the property value.\n *\n * @throws NoSuchElementException when the map doesn't contain value for the property name and doesn't provide an implicit default (see [withDefault]).\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <V, V1 : V> Map<in String, @Exact V>.getValue(thisRef: Any?, property: KProperty<*>): V1 =\n
@Suppress(\"UNCHECKED_CAST\") (getOrImplicitDefault(property.name) as V1)\n\n/**\n * Returns the value of the property for the given object from this mutable map.\n * @param thisRef the object for which the value is requested (not used).\n * @param property the metadata for the property, used to get the name of property and lookup the value corresponding to this name in the map.\n * @return the property value.\n *\n * @throws NoSuchElementException when the map doesn't contain value for the property name and doesn't provide an implicit default (see [withDefault]).\n */\n@kotlin.jvm.JvmName(\"getVar\")\n@kotlin.internal.InlineOnly\npublic inline operator fun <V, V1 : V> MutableMap<in String, out @Exact V>.getValue(thisRef: Any?, property: KProperty<*>): V1 =\n @Suppress(\"UNCHECKED_CAST\") (getOrImplicitDefault(property.name) as V1)\n\n/**\n * Stores the value of the property for the given object in this mutable map.\n * @param thisRef the object for which the value is requested (not
used).\n * @param property the metadata for the property, used to get the name of property and store the value associated with that name in the map.\n * @param value the value to set.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <V> MutableMap<in String, in V>.setValue(thisRef: Any?, property: KProperty<*>, value: V) {\n this.put(property.name, value)\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the

license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"MapsKt\")\n\npackage kotlin.collections\n\n/**\n * Returns the value for the given key, or the implicit default value for this map.\n * By default no implicit value is provided for maps and a [NoSuchElementException] is thrown.\n * To create a map with implicit default value use [withDefault] method.\n *\n * @throws NoSuchElementException when the map doesn't contain a value for the specified key and no implicit default was provided for that map.\n */\n@kotlin.jvm.JvmName(\"getOrImplicitDefaultNullable\")\n@PublishedApi\ninternal fun <K, V> Map<K, V>.getOrImplicitDefault(key: K): V {\n if (this is MapWithDefault)\n return this.getOrImplicitDefault(key)\n\n return getOrElseNullable(key, { throw NoSuchElementException(\"Key $key is missing in the map.\") })\n}\n\n/**\n * Returns a wrapper of this read-only map, having the implicit default value provided with the specified function [defaultValue].\n *\n * This implicit default value is used when the original map doesn't contain a value for the key specified\n * and a value is obtained with [Map.getValue] function, for example when properties are delegated to the map.\n *\n * When this map already has an implicit default value provided with a former call to [withDefault], it is being replaced by this call.\n */\npublic fun <K, V> Map<K, V>.withDefault(defaultValue: (key: K) -> V): Map<K, V> =\n when (this) {\n is MapWithDefault -> this.map.withDefault(defaultValue)\n else -> MapWithDefaultImpl(this, defaultValue)\n }\n\n/**\n * Returns a wrapper of this mutable map, having the implicit default value provided with the specified function [defaultValue].\n *\n * This implicit default value is used when the original map doesn't contain a value for the key specified\n * and a value is obtained with [Map.getValue] function, for example when properties are delegated to the map.\n *\n * When this map already has an implicit default value provided with a former call to [withDefault], it is being replaced by this call.\n */\n@kotlin.jvm.JvmName(\"withDefaultMutable\")\npublic fun <K, V> MutableMap<K, V>.withDefault(defaultValue: (key: K) -> V): MutableMap<K, V> =\n when (this) {\n is MutableMapWithDefault -> this.map.withDefault(defaultValue)\n else -> MutableMapWithDefaultImpl(this, defaultValue)\n }\n\n\nprivate interface MapWithDefault<K, out V> : Map<K, V> {\n public val map: Map<K, V>\n public fun getOrImplicitDefault(key: K): V\n}\n\nprivate interface MutableMapWithDefault<K, V> : MutableMap<K, V>, MapWithDefault<K, V> {\n public override val map: MutableMap<K, V>\n}\n\n\nprivate class MapWithDefaultImpl<K, out V>(public override val map: Map<K, V>, private val default: (key: K) -> V) : MapWithDefault<K, V> {\n override fun equals(other: Any?): Boolean = map.equals(other)\n override fun hashCode(): Int = map.hashCode()\n override fun toString(): String = map.toString()\n override val size: Int get() = map.size\n override fun isEmpty(): Boolean = map.isEmpty()\n override fun containsKey(key: K): Boolean = map.containsKey(key)\n override fun containsValue(value: @UnsafeVariance V): Boolean = map.containsValue(value)\n override fun get(key: K): V? = map.get(key)\n override val keys: Set<K> get() = map.keys\n override val values: Collection<V> get() = map.values\n override val entries: Set<Map.Entry<K, V>> get() = map.entries\n\n override fun getOrImplicitDefault(key: K): V = map.getOrElseNullable(key, { default(key) })\n}\n\nprivate class MutableMapWithDefaultImpl<K, V>(public override val map: MutableMap<K, V>, private val default: (key: K) -> V) : MutableMapWithDefault<K, V> {\n override fun equals(other: Any?): Boolean = map.equals(other)\n override fun hashCode(): Int = map.hashCode()\n override fun toString(): String = map.toString()\n override val size: Int get() = map.size\n override fun isEmpty(): Boolean = map.isEmpty()\n override fun containsKey(key: K): Boolean = map.containsKey(key)\n override fun containsValue(value: @UnsafeVariance V): Boolean = map.containsValue(value)\n override fun get(key: K): V? = map.get(key)\n override val keys: MutableSet<K> get() = map.keys\n override val values: MutableCollection<V> get() = map.values\n override val entries: MutableSet<MutableMap.MutableEntry<K, V>> get() = map.entries\n\n override fun put(key: K, value: V): V? = map.put(key, value)\n override fun remove(key: K): V? = map.remove(key)\n override fun putAll(from: Map<out K, V>) = map.putAll(from)\n override fun clear() = map.clear()\n\n override fun getOrImplicitDefault(key: K): V = map.getOrElseNullable(key,

{ default(key) })\n}\n\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"CollectionsKt\")\n\npackage kotlin.collections\n\nimport kotlin.random.Random\n\n/**\n * Removes a single instance of the specified element from this\n * collection, if it is present.\n *\n * Allows to overcome type-safety restriction of `remove` that requires to pass an element of type `E`.\n *\n * @return `true` if the element has been successfully removed; `false` if it was not present in the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<out T>.remove(element: T): Boolean =\n @Suppress(\"UNCHECKED_CAST\") (this as MutableCollection<T>).remove(element)\n\n/**\n * Removes all of this collection's elements that are also contained in the specified collection.\n\n * Allows to overcome type-safety restriction of `removeAll` that requires to pass a collection of type `Collection<E>`.\n *\n * @return `true` if any of the specified elements was removed from the collection, `false` if the collection was not modified.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<out T>.removeAll(elements: Collection<T>): Boolean =\n @Suppress(\"UNCHECKED_CAST\") (this as MutableCollection<T>).removeAll(elements)\n\n/**\n * Retains only the elements in this collection that are contained in the specified collection.\n *\n * Allows to overcome type-safety restriction of `retainAll` that requires to pass a collection of type `Collection<E>`.\n *\n * @return `true` if any element was removed from the collection, `false` if the collection was not modified.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<out T>.retainAll(elements: Collection<T>): Boolean =\n @Suppress(\"UNCHECKED_CAST\") (this as MutableCollection<T>).retainAll(elements)\n\n/**\n * Adds the specified [element] to this mutable collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.plusAssign(element: T) {\n this.add(element)\n}\n\n/**\n * Adds all elements of the given [elements] collection to this mutable collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.plusAssign(elements: Iterable<T>) {\n this.addAll(elements)\n}\n\n/**\n * Adds all elements of the given [elements] array to this mutable collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.plusAssign(elements: Array<T>) {\n this.addAll(elements)\n}\n\n/**\n * Adds all elements of the given [elements] sequence to this mutable collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.plusAssign(elements: Sequence<T>) {\n this.addAll(elements)\n}\n\n/**\n * Removes a single instance of the specified [element] from this mutable collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.minusAssign(element: T) {\n this.remove(element)\n}\n\n/**\n * Removes all elements contained in the given [elements] collection from this mutable collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.minusAssign(elements: Iterable<T>) {\n this.removeAll(elements)\n}\n\n/**\n * Removes all elements contained in the given [elements] array from this mutable collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.minusAssign(elements: Array<T>) {\n this.removeAll(elements)\n}\n\n/**\n * Removes all elements contained in the given [elements] sequence from this mutable collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.minusAssign(elements: Sequence<T>) {\n this.removeAll(elements)\n}\n\n/**\n * Adds all elements of the given [elements] collection to this [MutableCollection].\n */\npublic fun <T> MutableCollection<in T>.addAll(elements: Iterable<T>): Boolean {\n when (elements) {\n is Collection -> return addAll(elements)\n else -> {\n var result: Boolean = false\n for (item in elements)\n if (add(item)) result = true\n return result\n }\n }\n}\n\n/**\n * Adds all elements of the given [elements] sequence to this [MutableCollection].\n */\npublic fun <T> MutableCollection<in T>.addAll(elements: Sequence<T>): Boolean {\n var result: Boolean = false\n for (item in elements) {\n if (add(item)) result = true\n }\n return result\n}\n\n/**\n * Adds all elements of the given [elements] array to this [MutableCollection].\n */\npublic fun <T> MutableCollection<in

```
T>.addAll(elements: Array<out T>): Boolean {\n    return addAll(elements.asList())\n}\n\n/**\n * Removes all elements from this [MutableCollection] that are also contained in the given [elements] collection.\n */\npublic fun <T> MutableCollection<in T>.removeAll(elements: Iterable<T>): Boolean {\n    return removeAll(elements.convertToSetForSetOperationWith(this))\n}\n\n/**\n * Removes all elements from this [MutableCollection] that are also contained in the given [elements] sequence.\n */\npublic fun <T> MutableCollection<in T>.removeAll(elements: Sequence<T>): Boolean {\n    val set = elements.convertToSetForSetOperation()\n    return set.isNotEmpty()
     && removeAll(set)\n}\n\n/**\n * Removes all elements from this [MutableCollection] that are also contained in the given [elements] array.\n */\npublic fun <T> MutableCollection<in T>.removeAll(elements: Array<out T>): Boolean {\n    return elements.isNotEmpty() && removeAll(elements.convertToSetForSetOperation())\n}\n\n/**\n * Retains only elements of this [MutableCollection] that are contained in the given [elements] collection.\n */\npublic fun <T> MutableCollection<in T>.retainAll(elements: Iterable<T>): Boolean {\n    return retainAll(elements.convertToSetForSetOperationWith(this))\n}\n\n/**\n * Retains only elements of this [MutableCollection] that are contained in the given [elements] array.\n */\npublic fun <T> MutableCollection<in T>.retainAll(elements: Array<out T>): Boolean {\n    if (elements.isNotEmpty())\n        return retainAll(elements.convertToSetForSetOperation())\n    else\n        return retainNothing()\n}\n\n/**\n * Retains only elements of this [MutableCollection]
     that are contained in the given [elements] sequence.\n */\npublic fun <T> MutableCollection<in T>.retainAll(elements: Sequence<T>): Boolean {\n    val set = elements.convertToSetForSetOperation()\n    if (set.isNotEmpty())\n        return retainAll(set)\n    else\n        return retainNothing()\n}\n\nprivate fun MutableCollection<*>.retainNothing(): Boolean {\n    val result = isNotEmpty()\n    clear()\n    return result\n}\n\n/**\n * Removes all elements from this [MutableIterable] that match the given [predicate].\n *\n * @return `true` if any element was removed from this collection, or `false` when no elements were removed and collection was not modified.\n */\npublic fun <T> MutableIterable<T>.removeAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate, true)\n\n/**\n * Retains only elements of this [MutableIterable] that match the given [predicate].\n *\n * @return `true` if any element was removed from this collection, or `false` when all elements were retained
     and collection was not modified.\n */\npublic fun <T> MutableIterable<T>.retainAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate, false)\n\nprivate fun <T> MutableIterable<T>.filterInPlace(predicate: (T) -> Boolean, predicateResultToRemove: Boolean): Boolean {\n    var result = false\n    with(iterator()) {\n        while (hasNext())\n            if (predicate(next()) == predicateResultToRemove) {\n                remove()\n                result = true\n            }\n    }\n    return result\n}\n\n/**\n * Removes the element at the specified [index] from this list.\n * In Kotlin one should use the [MutableList.removeAt] function instead.\n */\n@Deprecated(\"Use removeAt(index) instead.\", ReplaceWith(\"removeAt(index)\"), level = DeprecationLevel.ERROR)\n@kotlin.internal.InlineOnly\npublic inline fun <T> MutableList<T>.remove(index: Int): T = removeAt(index)\n\n/**\n * Removes the first element from this mutable list and returns that removed element, or throws [NoSuchElementException]
     if this list is empty.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T> MutableList<T>.removeFirst(): T = if (isEmpty()) throw NoSuchElementException(\"List is empty.\") else removeAt(0)\n\n/**\n * Removes the first element from this mutable list and returns that removed element, or returns `null` if this list is empty.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T> MutableList<T>.removeFirstOrNull(): T? = if (isEmpty()) null else removeAt(0)\n\n/**\n * Removes the last element from this mutable list and returns that removed element, or throws [NoSuchElementException] if this list is empty.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T> MutableList<T>.removeLast(): T = if (isEmpty()) throw NoSuchElementException(\"List is empty.\") else removeAt(lastIndex)\n\n/**\n * Removes the last element from this mutable list and returns that removed
```

element, or returns `null` if this list is empty.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T> MutableList<T>.removeLastOrNull(): T? = if (isEmpty()) null else removeAt(lastIndex)\n\n/**\n * Removes all elements from this [MutableList] that match the given [predicate].\n *\n * @return `true` if any element was removed from this collection, or `false` when no elements were removed and collection was not modified.\n */\npublic fun <T> MutableList<T>.removeAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate, true)\n\n/**\n * Retains only elements of this [MutableList] that match the given [predicate].\n *\n * @return `true` if any element was removed from this collection, or `false` when all elements were retained and collection was not modified.\n */\npublic fun <T> MutableList<T>.retainAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate, false)\n\nprivate fun <T> MutableList<T>.filterInPlace(predicate: (T) -> Boolean, predicateResultToRemove: Boolean): Boolean {\n if (this !is RandomAccess)\n return (this as MutableIterable<T>).filterInPlace(predicate, predicateResultToRemove)\n\n var writeIndex: Int = 0\n for (readIndex in 0..lastIndex) {\n val element = this[readIndex]\n if (predicate(element) == predicateResultToRemove)\n continue\n\n if (writeIndex != readIndex)\n this[writeIndex] = element\n\n writeIndex++\n }\n if (writeIndex < size) {\n for (removeIndex in lastIndex downTo writeIndex)\n removeAt(removeIndex)\n\n return true\n } else {\n return false\n }\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"CollectionsKt\")\n\npackage kotlin.collections\n\nprivate
open class ReversedListReadOnly<out T>(private val delegate: List<T>) : AbstractList<T>() {\n override val size: Int get() = delegate.size\n override fun get(index: Int): T = delegate[reverseElementIndex(index)]\n}\n\nprivate class ReversedList<T>(private val delegate: MutableList<T>) : AbstractMutableList<T>() {\n override val size: Int get() = delegate.size\n override fun get(index: Int): T = delegate[reverseElementIndex(index)]\n\n override fun clear() = delegate.clear()\n override fun removeAt(index: Int): T = delegate.removeAt(reverseElementIndex(index))\n\n override fun set(index: Int, element: T): T = delegate.set(reverseElementIndex(index), element)\n override fun add(index: Int, element: T) {\n delegate.add(reversePositionIndex(index), element)\n }\n}\n\nprivate fun List<*>.reverseElementIndex(index: Int) =\n if (index in 0..lastIndex) lastIndex - index else throw IndexOutOfBoundsException(\"Element index $index must be in range
[${0..lastIndex}].\")\n\nprivate fun List<*>.reversePositionIndex(index: Int) =\n if (index in 0..size) size - index else throw IndexOutOfBoundsException(\"Position index $index must be in range [${0..size}].\")\n\n\n/**\n * Returns a reversed read-only view of the original List.\n * All changes made in the original list will be reflected in the reversed one.\n * @sample samples.collections.ReversedViews.asReversedList\n */\npublic fun <T> List<T>.asReversed(): List<T> = ReversedListReadOnly(this)\n\n/**\n * Returns a reversed mutable view of the original mutable List.\n * All changes made in the original list will be reflected in the reversed one and vice versa.\n * @sample samples.collections.ReversedViews.asReversedMutableList\n */\n@kotlin.jvm.JvmName(\"asReversedMutable\")\npublic fun <T> MutableList<T>.asReversed(): MutableList<T> = ReversedList(this)\n\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"SequencesKt\")\n@file:OptIn(ExperimentalTypeInference::class)\n\npackage kotlin.sequences\n\nimport kotlin.coroutines.*\nimport kotlin.coroutines.intrinsics.*\nimport kotlin.experimental.ExperimentalTypeInference\n\n/**\n * Builds a [Sequence] lazily yielding values one by one.\n *\n * @see kotlin.sequences.generateSequence\n *\n * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\n * @sample samples.collections.Sequences.Building.buildFibonacciSequence\n */\n@SinceKotlin(\"1.3\")\npublic fun <T> sequence(@BuilderInference block: suspend SequenceScope<T>.() -> Unit): Sequence<T> = Sequence {

```
iterator(block) }\n\n@SinceKotlin(\"1.3\")\n@Deprecated(\"Use 'sequence { }' function instead.\",
ReplaceWith(\"sequence(builderAction)\"), level =
DeprecationLevel.ERROR)\n@kotlin.internal.InlineOnly\npublic inline fun
 <T> buildSequence(@BuilderInference noinline builderAction: suspend SequenceScope<T>.() -> Unit):
Sequence<T> = Sequence { iterator(builderAction) }\n\n/**\n * Builds an [Iterator] lazily yielding values one by
one.\n *\n * @sample samples.collections.Sequences.Building.buildIterator\n * @sample
samples.collections.Iterables.Building.iterable\n */\n@SinceKotlin(\"1.3\")\npublic fun <T>
iterator(@BuilderInference block: suspend SequenceScope<T>.() -> Unit): Iterator<T> {\n    val iterator =
SequenceBuilderIterator<T>()\n    iterator.nextStep = block.createCoroutineUnintercepted(receiver = iterator,
completion = iterator)\n    return iterator\n}\n\n@SinceKotlin(\"1.3\")\n@Deprecated(\"Use 'iterator { }' function
instead.\", ReplaceWith(\"iterator(builderAction)\"), level =
DeprecationLevel.ERROR)\n@kotlin.internal.InlineOnly\npublic inline fun <T> buildIterator(@BuilderInference
noinline builderAction: suspend SequenceScope<T>.() -> Unit): Iterator<T> = iterator(builderAction)\n\n/**\n *
 The scope for yielding values of a [Sequence] or an [Iterator], provides [yield] and [yieldAll] suspension
functions.\n *\n * @see sequence\n * @see iterator\n *\n * @sample
samples.collections.Sequences.Building.buildSequenceYieldAll\n * @sample
samples.collections.Sequences.Building.buildFibonacciSequence\n
*/\n@RestrictsSuspension\n@SinceKotlin(\"1.3\")\npublic abstract class SequenceScope<in T> internal
constructor() {\n    /**\n     * Yields a value to the [Iterator] being built and suspends\n     * until the next value is
requested.\n     *\n     * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\n     * @sample
samples.collections.Sequences.Building.buildFibonacciSequence\n     */\n    public abstract suspend fun yield(value:
T)\n\n    /**\n     * Yields all values from the `iterator` to the [Iterator] being built\n     * and suspends until all these
values are iterated and the next one is requested.\n     *\n     * The sequence of values returned by the given
 iterator can be potentially infinite.\n     *\n     * @sample
samples.collections.Sequences.Building.buildSequenceYieldAll\n     */\n    public abstract suspend fun
yieldAll(iterator: Iterator<T>)\n\n    /**\n     * Yields a collections of values to the [Iterator] being built\n     * and
suspends until all these values are iterated and the next one is requested.\n     *\n     * @sample
samples.collections.Sequences.Building.buildSequenceYieldAll\n     */\n    public suspend fun yieldAll(elements:
Iterable<T>) {\n        if (elements is Collection && elements.isEmpty()) return\n        return
yieldAll(elements.iterator())\n    }\n\n    /**\n     * Yields potentially infinite sequence of values  to the [Iterator]
being built\n     * and suspends until all these values are iterated and the next one is requested.\n     *\n     * The
sequence can be potentially infinite.\n     *\n     * @sample
samples.collections.Sequences.Building.buildSequenceYieldAll\n     */\n    public suspend fun
 yieldAll(sequence: Sequence<T>) = yieldAll(sequence.iterator())\n}\n\n@Deprecated(\"Use SequenceScope class
instead.\", ReplaceWith(\"SequenceScope<T>\"), level = DeprecationLevel.ERROR)\npublic typealias
SequenceBuilder<T> = SequenceScope<T>\n\nprivate typealias State = Int\n\nprivate const val State_NotReady:
State = 0\nprivate const val State_ManyNotReady: State = 1\nprivate const val State_ManyReady: State =
2\nprivate const val State_Ready: State = 3\nprivate const val State_Done: State = 4\nprivate const val State_Failed:
State = 5\n\nprivate class SequenceBuilderIterator<T> : SequenceScope<T>(), Iterator<T>, Continuation<Unit> {\n
  private var state = State_NotReady\n    private var nextValue: T? = null\n    private var nextIterator: Iterator<T>? =
null\n    var nextStep: Continuation<Unit>? = null\n\n    override fun hasNext(): Boolean {\n        while (true) {\n
    when (state) {\n                State_NotReady -> {}\n                State_ManyNotReady ->\n
        if (nextIterator!!.hasNext()) {\n                    state = State_ManyReady\n                    return true\n
    } else {\n                    nextIterator = null\n                }\n                State_Done -> return false\n
State_Ready, State_ManyReady -> return true\n                else -> throw exceptionalState()\n            }\n\n            state
= State_Failed\n            val step = nextStep!!\n            nextStep = null\n            step.resume(Unit)\n        }\n    }\n\n
override fun next(): T {\n        when (state) {\n            State_NotReady, State_ManyNotReady -> return
nextNotReady()\n            State_ManyReady -> {\n                state = State_ManyNotReady\n                return
```

nextIterator!!.next()\n }\n State_Ready -> {\n state = State_NotReady\n @Suppress(\"UNCHECKED_CAST\")\n val result = nextValue as T\n nextValue = null\n return result\n }\n else -> throw exceptionalState()\n }\n }\n\n private fun nextNotReady(): T {\n if (!hasNext()) throw NoSuchElementException() else return next()\n }\n\n private fun exceptionalState(): Throwable = when (state) {\n State_Done -> NoSuchElementException()\n State_Failed -> IllegalStateException(\"Iterator has failed.\")\n else -> IllegalStateException(\"Unexpected state of the iterator: $state\")\n }\n\n\n override suspend fun yield(value: T) {\n nextValue = value\n state = State_Ready\n return suspendCoroutineUninterceptedOrReturn { c ->\n nextStep = c\n COROUTINE_SUSPENDED\n }\n }\n\n override suspend fun yieldAll(iterator: Iterator<T>) {\n if (!iterator.hasNext()) return\n nextIterator = iterator\n state = State_ManyReady\n return suspendCoroutineUninterceptedOrReturn { c ->\n nextStep = c\n COROUTINE_SUSPENDED\n }\n }\n\n // Completion continuation implementation\n override fun resumeWith(result: Result<Unit>) {\n result.getOrThrow() // just rethrow exception if it is there\n state = State_Done\n }\n\n override val context: CoroutineContext\n get() = EmptyCoroutineContext\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\ninternal fun checkWindowSizeStep(size: Int, step: Int) {\n require(size > 0 && step > 0) {\n if (size != step)\n \"Both size $size and step $step must be greater than zero.\"\n else\n \"size $size must be greater than zero.\"\n }\n}\n\ninternal fun <T> Sequence<T>.windowedSequence(size: Int, step: Int, partialWindows: Boolean, reuseBuffer: Boolean): Sequence<List<T>> {\n checkWindowSizeStep(size, step)\n return Sequence { windowedIterator(iterator(), size, step, partialWindows, reuseBuffer) }\n}\n\ninternal fun <T> windowedIterator(iterator: Iterator<T>, size: Int, step: Int, partialWindows: Boolean, reuseBuffer: Boolean): Iterator<List<T>> {\n if (!iterator.hasNext()) return EmptyIterator\n return iterator<List<T>> {\n val bufferInitialCapacity = size.coerceAtMost(1024)\n val gap = step - size\n if (gap >= 0) {\n var buffer = ArrayList<T>(bufferInitialCapacity)\n var skip = 0\n for (e in iterator) {\n if (skip > 0) { skip -= 1; continue }\n buffer.add(e)\n if (buffer.size == size) {\n yield(buffer)\n if (reuseBuffer) buffer.clear() else buffer = ArrayList(size)\n skip = gap\n }\n }\n if (buffer.isNotEmpty()) {\n if (partialWindows || buffer.size == size) yield(buffer)\n }\n } else {\n var buffer = RingBuffer<T>(bufferInitialCapacity)\n for (e in iterator) {\n buffer.add(e)\n if (buffer.isFull()) {\n if (buffer.size < size) { buffer = buffer.expanded(maxCapacity = size); continue }\n\n yield(if (reuseBuffer) buffer else ArrayList(buffer))\n buffer.removeFirst(step)\n }\n }\n if (partialWindows) {\n while (buffer.size > step) {\n yield(if (reuseBuffer) buffer else ArrayList(buffer))\n buffer.removeFirst(step)\n }\n if (buffer.isNotEmpty()) yield(buffer)\n }\n }\n}\n\ninternal class MovingSubList<out E>(private val list: List<E>) : AbstractList<E>(), RandomAccess {\n private var fromIndex: Int = 0\n private var _size: Int = 0\n\n fun move(fromIndex: Int, toIndex: Int) {\n checkRangeIndexes(fromIndex, toIndex, list.size)\n this.fromIndex = fromIndex\n this._size = toIndex - fromIndex\n }\n\n override fun get(index: Int): E {\n checkElementIndex(index, _size)\n\n return list[fromIndex + index]\n }\n\n override val size: Int get() = _size\n}\n\n\n/**\n * Provides ring buffer implementation.\n *\n * Buffer overflow is not allowed so [add] doesn't overwrite tail but raises an exception.\n */\nprivate class RingBuffer<T>(private val buffer: Array<Any?>, filledSize: Int) : AbstractList<T>(), RandomAccess {\n init {\n require(filledSize >= 0) { \"ring buffer filled size should not be negative but it is $filledSize\" }\n require(filledSize <= buffer.size) { \"ring buffer filled size: $filledSize cannot be larger than the buffer size: ${buffer.size}\" }\n }\n\n constructor(capacity: Int) : this(arrayOfNulls<Any?>(capacity), 0)\n\n private val capacity = buffer.size\n private var startIndex: Int = 0\n\n override var size: Int = filledSize\n private set\n\n override fun get(index: Int): T {\n checkElementIndex(index, size)\n @Suppress(\"UNCHECKED_CAST\")\n return buffer[startIndex.forward(index)] as T\n }\n\n fun isFull() =

```
size == capacity\n\n    override fun iterator(): Iterator<T> = object : AbstractIterator<T>() {\n        private var count = size\n        private var index = startIndex\n\n        override fun computeNext() {\n            if (count == 0) {\n                done()\n            } else {\n                @Suppress(\"UNCHECKED_CAST\")\n                setNext(buffer[index] as T)\n                index = index.forward(1)\n                count--\n            }\n        }\n    }\n\n    @Suppress(\"UNCHECKED_CAST\")\n    override fun <T> toArray(array: Array<T>): Array<T> {\n        val result: Array<T?> =\n            if (array.size < this.size) array.copyOf(this.size)\n            else array as Array<T?>\n\n        val size = this.size\n\n        var widx = 0\n        var idx = startIndex\n\n        while (widx < size && idx < capacity) {\n            result[widx] = buffer[idx] as T\n            widx++\n            idx++\n        }\n\n        idx = 0\n        while (widx < size) {\n            result[widx] = buffer[idx] as T\n            widx++\n            idx++\n        }\n        if (result.size > this.size) result[this.size] = null\n\n        return result as Array<T>\n    }\n\n    override fun toArray(): Array<Any?> {\n        return toArray(arrayOfNulls(size))\n    }\n\n    /**\n     * Creates a new ring buffer with the capacity equal to the minimum of [maxCapacity] and 1.5 * [capacity].\n     * The returned ring buffer contains the same elements as this ring buffer.\n     */\n    fun expanded(maxCapacity: Int): RingBuffer<T> {\n        val newCapacity = (capacity + (capacity shr 1) + 1).coerceAtMost(maxCapacity)\n        val newBuffer = if (startIndex == 0) buffer.copyOf(newCapacity) else toArray(arrayOfNulls(newCapacity))\n        return RingBuffer(newBuffer, size)\n    }\n\n    /**\n     * Add [element] to the buffer or fail with [IllegalStateException] if no free space available in the buffer\n     */\n    fun add(element: T) {\n        if (isFull()) {\n            throw IllegalStateException(\"ring buffer is full\")\n        }\n\n        buffer[startIndex.forward(size)] = element\n        size++\n    }\n\n    /**\n     * Removes [n] first elements from the buffer or fails with [IllegalArgumentException] if not enough elements in the buffer to remove\n     */\n    fun removeFirst(n: Int) {\n        require(n >= 0) { \"n shouldn't be negative but it is $n\" }\n        require(n <= size) { \"n shouldn't be greater than the buffer size: n = $n, size = $size\" }\n\n        if (n > 0) {\n            val start = startIndex\n            val end = start.forward(n)\n\n            if (start > end) {\n                buffer.fill(null, start, capacity)\n                buffer.fill(null, 0, end)\n            } else {\n                buffer.fill(null, start, end)\n            }\n\n            startIndex = end\n            size -= n\n        }\n    }\n\n    @Suppress(\"NOTHING_TO_INLINE\")\n    private inline fun Int.forward(n: Int): Int = (this + n) % capacity\n}\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n// UByteArray ================================================================================\n@ExperimentalUnsignedTypes\nprivate fun partition(\n    array: UByteArray, left: Int, right: Int): Int {\n    var i = left\n    var j = right\n    val pivot = array[(left + right) / 2]\n    while (i <= j) {\n        while (array[i] < pivot)\n            i++\n        while (array[j] > pivot)\n            j--\n        if (i <= j) {\n            val tmp = array[i]\n            array[i] = array[j]\n            array[j] = tmp\n            i++\n            j--\n        }\n    }\n    return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun quickSort(\n    array: UByteArray, left: Int, right: Int) {\n    val index = partition(array, left, right)\n    if (left < index - 1)\n        quickSort(array, left, index - 1)\n    if (index < right)\n        quickSort(array, index, right)\n}\n\n// UShortArray ================================================================================\n@ExperimentalUnsignedTypes\nprivate fun partition(\n    array: UShortArray, left: Int, right: Int): Int {\n    var i = left\n    var j = right\n    val pivot = array[(left + right) / 2]\n    while (i <= j) {\n        while (array[i] < pivot)\n            i++\n        while (array[j] > pivot)\n            j--\n        if (i <= j) {\n            val tmp = array[i]\n            array[i] = array[j]\n            array[j] = tmp\n            i++\n            j--\n        }\n    }\n    return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun quickSort(\n    array: UShortArray, left: Int, right: Int) {\n    val index = partition(array, left, right)\n    if (left < index - 1)\n        quickSort(array, left, index - 1)\n    if (index < right)\n        quickSort(array, index, right)\n}\n\n// UIntArray ================================================================================\n@ExperimentalUnsignedTypes\nprivate fun partition(\n    array: UIntArray, left: Int, right: Int): Int {\n    var i = left\n    var j = right\n    val pivot = array[(left + right) / 2]\n    while (i <= j) {\n        while (array[i] < pivot)\n            i++\n        while (array[j] > pivot)\n            j--\n        if (i <= j) {\n            val tmp = array[i]\n            array[i] = array[j]\n
```

```
 array[j] = tmp\n            i++\n            j--\n        }\n    }\n    return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun quickSort(\n    array:
 UIntArray, left: Int, right: Int) {\n    val index = partition(array, left, right)\n    if (left < index - 1)\n quickSort(array, left, index - 1)\n    if (index < right)\n        quickSort(array, index, right)\n}\n\n// ULongArray ==========\n@ExperimentalUnsignedTypes\nprivate fun partition(\n    array: ULongArray, left: Int, right: Int): Int {\n    var i = left\n var j = right\n    val pivot = array[(left + right) / 2]\n    while (i <= j) {\n        while (array[i] < pivot)\n            i++\n    while (array[j] > pivot)\n            j--\n        if (i <= j) {\n            val tmp = array[i]\n            array[i] = array[j]\n array[j] = tmp\n            i++\n            j--\n        }\n    }\n    return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun quickSort(\n    array: ULongArray, left: Int, right: Int) {\n    val index = partition(array, left, right)\n    if (left < index - 1)\n    quickSort(array, left, index - 1)\n    if (index < right)\n        quickSort(array, index, right)\n}\n\n\n// Interfaces ==========\n/**\n * Sorts the given array using qsort algorithm.\n */\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: UByteArray, fromIndex: Int, toIndex: Int)    = quickSort(array, fromIndex, toIndex - 1)\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: UShortArray, fromIndex: Int, toIndex: Int)   = quickSort(array, fromIndex, toIndex - 1)\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: UIntArray, fromIndex: Int, toIndex: Int)     = quickSort(array, fromIndex, toIndex - 1)\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: ULongArray, fromIndex: Int, toIndex: Int)    = quickSort(array, fromIndex, toIndex - 1)","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
 that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport kotlin.internal.InlineOnly\n\n/**\n * Compares this object with the specified object for order. Returns zero if this object is equal\n * to the specified [other] object, a negative number if it's less than [other], or a positive number\n * if it's greater than [other].\n *\n * This function delegates to [Comparable.compareTo] and allows to call it in infix form.\n */\n@InlineOnly\n@SinceKotlin(\"1.6\")\npublic inline infix fun <T> Comparable<T>.compareTo(other: T): Int =\n    this.compareTo(other)\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.contracts\n\nimport kotlin.internal.ContractsDsl\nimport kotlin.internal.InlineOnly\n\n/**\n * This marker distinguishes the experimental contract declaration API and is used
 to opt-in for that feature\n * when declaring contracts of user functions.\n *\n * Any usage of a declaration annotated with `@ExperimentalContracts` must be accepted either by\n * annotating that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalContracts::class)`,\n * or by using the compiler argument `-Xopt-in=kotlin.contracts.ExperimentalContracts`.\n */\n@Suppress(\"DEPRECATION\")\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin(\"1.3\")\n@Experimental\n@RequiresOptIn\n@MustBeDocumented\npublic annotation class ExperimentalContracts\n\n/**\n * Provides a scope, where the functions of the contract DSL, such as [returns], [callsInPlace], etc.,\n * can be used to describe the contract of a function.\n *\n * This type is used as a receiver type of the lambda function passed to the [contract] function.\n *\n * @see contract\n */\n@ContractsDsl\n@ExperimentalContracts\n@SinceKotlin(\"1.3\")\npublic interface ContractBuilder {\n    /**\n     * Describes a situation when
 a function returns normally, without any exceptions thrown.\n     *\n     * Use [SimpleEffect.implies] function to describe a conditional effect that happens in such case.\n     *\n     */\n    // @sample samples.contracts.returnsContract\n    @ContractsDsl public fun returns(): Returns\n\n    /**\n     * Describes a situation when a function returns normally with the specified return [value].\n     *\n     * The possible values of [value] are limited to `true`, `false` or `null`.\n     *\n     * Use [SimpleEffect.implies] function to describe a conditional effect that happens in such case.\n     *\n     */\n    // @sample samples.contracts.returnsTrueContract\n
```

// @sample samples.contracts.returnsFalseContract\n    // @sample samples.contracts.returnsNullContract\n @ContractsDsl public fun returns(value: Any?): Returns\n\n    /**\n     * Describes a situation when a function returns normally with any value that is not `null`.\n     *\n     * Use [SimpleEffect.implies] function to describe a conditional effect that happens in such case.\n     *\n     */\n    // @sample samples.contracts.returnsNotNullContract\n    @ContractsDsl public fun returnsNotNull(): ReturnsNotNull\n\n /**\n     * Specifies that the function parameter [lambda] is invoked in place.\n     *\n     * This contract specifies that:\n     * 1. the function [lambda] can only be invoked during the call of the owner function,\n     *  and it won't be invoked after that owner function call is completed;\n     * 2. _(optionally)_ the function [lambda] is invoked the amount of times specified by the [kind] parameter,\n     *  see the [InvocationKind] enum for possible values.\n *\n     * A function declaring the `callsInPlace` effect must be _inline_.\n     *\n     */\n    /* @sample samples.contracts.callsInPlaceAtMostOnceContract\n    * @sample samples.contracts.callsInPlaceAtLeastOnceContract\n    * @sample samples.contracts.callsInPlaceExactlyOnceContract\n    * @sample samples.contracts.callsInPlaceUnknownContract\n
    */\n    @ContractsDsl public fun <R> callsInPlace(lambda: Function<R>, kind: InvocationKind = InvocationKind.UNKNOWN): CallsInPlace\n}\n\n/**\n * Specifies how many times a function invokes its function parameter in place.\n *\n * See [ContractBuilder.callsInPlace] for the details of the call-in-place function contract.\n */\n@ContractsDsl\n@ExperimentalContracts\n@SinceKotlin(\"1.3\")\npublic enum class InvocationKind {\n /**\n     * A function parameter will be invoked one time or not invoked at all.\n     */\n    // @sample samples.contracts.callsInPlaceAtMostOnceContract\n    @ContractsDsl AT_MOST_ONCE,\n\n    /**\n     * A function parameter will be invoked one or more times.\n     *\n     */\n    // @sample samples.contracts.callsInPlaceAtLeastOnceContract\n    @ContractsDsl AT_LEAST_ONCE,\n\n    /**\n     * A function parameter will be invoked exactly one time.\n     *\n     */\n    // @sample samples.contracts.callsInPlaceExactlyOnceContract\n
    @ContractsDsl EXACTLY_ONCE,\n\n    /**\n     * A function parameter is called in place, but it's unknown how many times it can be called.\n     *\n     */\n    // @sample samples.contracts.callsInPlaceUnknownContract\n @ContractsDsl UNKNOWN\n}\n\n/**\n * Specifies the contract of a function.\n *\n * The contract description must be at the beginning of a function and have at least one effect.\n *\n * Only the top-level functions can have a contract for now.\n *\n * @param builder the lambda where the contract of a function is described with the help of the [ContractBuilder] members.\n *\n */\n/* @sample samples.contracts.returnsContract\n* @sample samples.contracts.returnsTrueContract\n* @sample samples.contracts.returnsFalseContract\n* @sample samples.contracts.returnsNullContract\n* @sample samples.contracts.returnsNotNullContract\n* @sample samples.contracts.callsInPlaceAtMostOnceContract\n* @sample samples.contracts.callsInPlaceAtLeastOnceContract\n* @sample samples.contracts.callsInPlaceExactlyOnceContract\n* @sample samples.contracts.callsInPlaceUnknownContract\n*/\n@ContractsDsl\n@ExperimentalContracts\n@InlineOnly\n@SinceKotlin(\"1.3\")\n@Suppress(\"UNUSED_PARAMETER\")\npublic inline fun contract(builder: ContractBuilder.() -> Unit) { }\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines\n\n/**\n * Marks coroutine context element that intercepts coroutine continuations.\n * The coroutines framework uses [ContinuationInterceptor.Key] to retrieve the interceptor and\n * intercepts all coroutine continuations with [interceptContinuation] invocations.\n *\n * [ContinuationInterceptor] behaves like a [polymorphic element][AbstractCoroutineContextKey], meaning that\n * its implementation delegates [get][CoroutineContext.Element.get] and [minusKey][CoroutineContext.Element.minusKey]\n
 * to [getPolymorphicElement] and [minusPolymorphicKey] respectively.\n * [ContinuationInterceptor] subtypes can be extracted from the coroutine context using either [ContinuationInterceptor.Key]\n * or subtype key if it

```
extends [AbstractCoroutineContextKey].\n */\n@SinceKotlin(\"1.3\")\npublic interface ContinuationInterceptor : CoroutineContext.Element {\n    /**\n     * The key that defines *the* context interceptor.\n     */\n    companion object Key : CoroutineContext.Key<ContinuationInterceptor>\n\n    /**\n     * Returns continuation that wraps the original [continuation], thus intercepting all resumptions.\n     * This function is invoked by coroutines framework when needed and the resulting continuations are\n     * cached internally per each instance of the original [continuation].\n     *\n     * This function may simply return original [continuation] if it does not want to intercept this particular continuation.\n     *\n     * When the original [continuation] completes, coroutine framework invokes [releaseInterceptedContinuation]\n     * with the resulting continuation if it was intercepted, that is if `interceptContinuation` had previously\n     * returned a different continuation instance.\n     */\n    public fun <T> interceptContinuation(continuation: Continuation<T>): Continuation<T>\n\n    /**\n     * Invoked for the continuation instance returned by [interceptContinuation] when the original\n     * continuation completes and will not be used anymore. This function is invoked only if [interceptContinuation]\n     * had returned a different continuation instance from the one it was invoked with.\n     *\n     * Default implementation does nothing.\n     *\n     * @param continuation Continuation instance returned by this interceptor's [interceptContinuation] invocation.\n     */\n    public fun releaseInterceptedContinuation(continuation: Continuation<*>) {\n        /* do nothing by default */\n    }\n\n    public override operator fun <E : CoroutineContext.Element> get(key: CoroutineContext.Key<E>): E? {\n        // getPolymorphicKey specialized for ContinuationInterceptor key\n        @OptIn(ExperimentalStdlibApi::class)\n        if (key is AbstractCoroutineContextKey<*, *>) {\n            @Suppress(\"UNCHECKED_CAST\")\n            return if (key.isSubKey(this.key)) key.tryCast(this) as? E else null\n        }\n        @Suppress(\"UNCHECKED_CAST\")\n        return if (ContinuationInterceptor === key) this as E else null\n    }\n\n\n    public override fun minusKey(key: CoroutineContext.Key<*>): CoroutineContext {\n        // minusPolymorphicKey specialized for ContinuationInterceptor key\n        @OptIn(ExperimentalStdlibApi::class)\n        if (key is AbstractCoroutineContextKey<*, *>) {\n            return if (key.isSubKey(this.key) && key.tryCast(this) != null) EmptyCoroutineContext else this\n        }\n        return if (ContinuationInterceptor === key) EmptyCoroutineContext else this\n    }\n}\n","/*\n *
 Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines\n\n/**\n * Persistent context for the coroutine. It is an indexed set of [Element] instances.\n * An indexed set is a mix between a set and a map.\n * Every element in this set has a unique [Key].\n */\n@SinceKotlin(\"1.3\")\npublic interface CoroutineContext {\n    /**\n     * Returns the element with the given [key] from this context or `null`.\n     */\n    public operator fun <E : Element> get(key: Key<E>): E?\n\n    /**\n     * Accumulates entries of this context starting with [initial] value and applying [operation]\n     * from left to right to current accumulator value and each element of this context.\n     */\n    public fun <R> fold(initial: R, operation: (R, Element) -> R): R\n\n    /**\n     * Returns a context containing elements from this context and elements from  other [context].\n     * The elements from this context with the same key as in the other one are dropped.\n     */\n    public operator fun plus(context: CoroutineContext): CoroutineContext =\n        if (context === EmptyCoroutineContext) this else // fast path -- avoid lambda creation\n            context.fold(this) { acc, element ->\n                val removed = acc.minusKey(element.key)\n                if (removed === EmptyCoroutineContext) element else {\n                    // make sure interceptor is always last in the context (and thus is fast to get when present)\n                    val interceptor = removed[ContinuationInterceptor]\n                    if (interceptor == null) CombinedContext(removed, element) else {\n                        val left = removed.minusKey(ContinuationInterceptor)\n                        if (left === EmptyCoroutineContext) CombinedContext(element, interceptor) else\n                            CombinedContext(CombinedContext(left, element), interceptor)\n                    }\n                }\n            }\n\n    /**\n     * Returns a context containing elements from this context, but without an element with\n     * the specified [key].\n     */\n    public fun minusKey(key: Key<*>): CoroutineContext\n\n    /**\n     * Key for the elements of [CoroutineContext]. [E] is a type of element with this key.\n     */\n    public interface Key<E : Element>\n\n    /**\n     * An element of the [CoroutineContext].
```

An element of the coroutine context is a singleton context by itself.\n */\n public interface Element : CoroutineContext {\n /**\n * A key of this coroutine context element.\n */\n public val key: Key<*>\n\n public override operator fun <E : Element> get(key: Key<E>): E? =\n @Suppress(\"UNCHECKED_CAST\")\n if (this.key == key) this as E else null\n\n public override fun <R> fold(initial: R, operation: (R, Element) -> R): R\n =\n operation(initial, this)\n\n public override fun minusKey(key: Key<*>): CoroutineContext =\n if (this.key == key) EmptyCoroutineContext else this\n }\n}\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines\n\nimport kotlin.coroutines.CoroutineContext.Element\nimport kotlin.coroutines.CoroutineContext.Key\n\n/**\n * Base class for [CoroutineContext.Element] implementations.\n */\n@SinceKotlin(\"1.3\")\npublic abstract class AbstractCoroutineContextElement(public override val key: Key<*>) : Element\n\n/**\n * Base class for [CoroutineContext.Key] associated with polymorphic [CoroutineContext.Element] implementation.\n * Polymorphic element implementation implies delegating its [get][Element.get] and [minusKey][Element.minusKey]\n * to [getPolymorphicElement] and [minusPolymorphicKey] respectively.\n *\n * Polymorphic elements can be extracted from the coroutine context using both element key and its supertype key.\n * Example of polymorphic elements:\n * ```\n * open class BaseElement : CoroutineContext.Element {\n * companion object Key : CoroutineContext.Key<BaseElement>\n * override val key: CoroutineContext.Key<*> get() = Key\n * // It is important to use getPolymorphicKey and minusPolymorphicKey\n * override fun <E : CoroutineContext.Element> get(key: CoroutineContext.Key<E>): E? = getPolymorphicElement(key)\n * override fun minusKey(key: CoroutineContext.Key<*>): CoroutineContext = minusPolymorphicKey(key)\n * }\n *\n * class DerivedElement : BaseElement() {\n * companion object Key : AbstractCoroutineContextKey<BaseElement, DerivedElement>(BaseElement, { it as? DerivedElement })\n * }\n * // Now it is possible to query both `BaseElement` and `DerivedElement`\n * someContext[BaseElement] // Returns BaseElement?, non-null both for BaseElement and DerivedElement instances\n * someContext[DerivedElement] // Returns DerivedElement?, non-null only for DerivedElement instance\n * ```\n * @param B base class of a polymorphic element\n * @param baseKey an instance of base key\n * @param E element type associated with the current key\n * @param safeCast a function that can safely cast abstract [CoroutineContext.Element] to the concrete [E] type\n * and return the element if it is a subtype of [E] or `null` otherwise.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic abstract class AbstractCoroutineContextKey<B : Element, E : B>(\n baseKey: Key<B>,\n private val safeCast: (element: Element) -> E?\n) : Key<E> {\n private val topmostKey: Key<*> = if (baseKey is AbstractCoroutineContextKey<*, *>) baseKey.topmostKey else baseKey\n\n internal fun tryCast(element: Element): E? = safeCast(element)\n internal fun isSubKey(key: Key<*>): Boolean = key === this || topmostKey === key\n}\n\n/**\n * Returns the current element if it is associated with the given [key] in a polymorphic manner or `null` otherwise.\n * This method returns non-null value if either [Element.key] is equal to the given [key] or if the [key] is associated\n * with [Element.key] via [AbstractCoroutineContextKey].\n * See [AbstractCoroutineContextKey] for the example of usage.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic fun <E : Element> Element.getPolymorphicElement(key: Key<E>): E? {\n if (key is AbstractCoroutineContextKey<*, *>) {\n @Suppress(\"UNCHECKED_CAST\")\n return if (key.isSubKey(this.key)) key.tryCast(this) as? E else null\n }\n @Suppress(\"UNCHECKED_CAST\")\n return if (this.key === key) this as E else null\n}\n\n/**\n * Returns empty coroutine context if the element is associated with the given [key] in a polymorphic manner\n * or `null` otherwise.\n * This method returns empty context if either [Element.key] is equal to the given [key] or if the [key] is associated\n * with [Element.key] via [AbstractCoroutineContextKey].\n * See [AbstractCoroutineContextKey] for the example of usage.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic fun Element.minusPolymorphicKey(key: Key<*>):

```
CoroutineContext {\n    if (key is AbstractCoroutineContextKey<*, *>) {\n        return if (key.isSubKey(this.key) && key.tryCast(this) != null) EmptyCoroutineContext else this\n    }\n    return if (this.key === key) EmptyCoroutineContext else this\n}\n\n/**\n * An empty coroutine context.\n */\n@SinceKotlin(\"1.3\")\npublic object EmptyCoroutineContext : CoroutineContext, Serializable {\n    private const val serialVersionUID: Long = 0\n    private fun readResolve(): Any = EmptyCoroutineContext\n\n    public override fun <E : Element> get(key: Key<E>): E? = null\n    public override fun <R> fold(initial: R, operation: (R, Element) -> R): R = initial\n    public override fun plus(context: CoroutineContext): CoroutineContext
 = context\n    public override fun minusKey(key: Key<*>): CoroutineContext = this\n    public override fun hashCode(): Int = 0\n    public override fun toString(): String = \"EmptyCoroutineContext\"\n}\n\n//------------------- internal impl -------------------\n\n// this class is not exposed, but is hidden inside implementations\n// this is a left-biased list, so that `plus` works naturally\n@SinceKotlin(\"1.3\")\ninternal class CombinedContext(\n    private val left: CoroutineContext,\n    private val element: Element\n) : CoroutineContext, Serializable {\n\n    override fun <E : Element> get(key: Key<E>): E? {\n        var cur = this\n        while (true) {\n            cur.element[key]?.let { return it }\n            val next = cur.left\n            if (next is CombinedContext) {\n                cur = next\n            } else {\n                return next[key]\n            }\n        }\n    }\n\n    public override fun <R> fold(initial: R, operation: (R, Element) -> R): R =\n        operation(left.fold(initial, operation), element)\n\n    public override fun minusKey(key: Key<*>): CoroutineContext {\n        element[key]?.let { return left }\n        val newLeft = left.minusKey(key)\n        return when {\n            newLeft === left -> this\n            newLeft === EmptyCoroutineContext -> element\n            else -> CombinedContext(newLeft, element)\n        }\n    }\n\n    private fun size(): Int {\n        var cur = this\n        var size = 2\n        while (true) {\n            cur = cur.left as? CombinedContext ?: return size\n            size++\n        }\n    }\n\n
 private fun contains(element: Element): Boolean =\n        get(element.key) == element\n\n    private fun containsAll(context: CombinedContext): Boolean {\n        var cur = context\n        while (true) {\n            if (!contains(cur.element)) return false\n            val next = cur.left\n            if (next is CombinedContext) {\n                cur = next\n            } else
 {\n                return contains(next as Element)\n            }\n        }\n    }\n\n    override fun equals(other: Any?): Boolean =\n        this === other || other is CombinedContext && other.size() == size() && other.containsAll(this)\n\n    override fun hashCode(): Int = left.hashCode() + element.hashCode()\n\n    override fun toString(): String =\n        \"[\" + fold(\"\") { acc, element ->\n            if (acc.isEmpty()) element.toString() else \"$acc, $element\"\n        } + \"]\"\n\n    private fun writeReplace(): Any {\n        val n = size()\n        val elements = arrayOfNulls<CoroutineContext>(n)\n        var index = 0\n        fold(Unit) { _, element -> elements[index++] = element }\n        check(index == n)\n        @Suppress(\"UNCHECKED_CAST\")\n        return Serialized(elements as Array<CoroutineContext>)\n    }\n\n    private class Serialized(val elements: Array<CoroutineContext>) : Serializable {\n        companion object {\n            private const val serialVersionUID:
 Long = 0L\n        }\n\n        private fun readResolve(): Any = elements.fold(EmptyCoroutineContext, CoroutineContext::plus)\n    }\n}\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmName(\"IntrinsicsKt\")\n@file:kotlin.jvm.JvmMultifileClass\n\npackage kotlin.coroutines.intrinsics\n\nimport kotlin.contracts.*\nimport kotlin.coroutines.*\nimport kotlin.internal.InlineOnly\n\n/**\n * Obtains the current continuation instance inside suspend functions and either suspends\n * currently running coroutine or returns result immediately without suspension.\n *\n * If the [block] returns the special [COROUTINE_SUSPENDED] value, it means that suspend function did suspend the execution and will\n * not return any result immediately. In this case, the [Continuation] provided to the [block] shall be\n
 * resumed by invoking [Continuation.resumeWith] at some moment in the\n * future when the result becomes available to resume the computation.\n *\n * Otherwise, the return value of the [block] must have a type assignable to [T] and represents the result of this suspend function.\n * It means that the execution was not suspended and the [Continuation] provided to the [block] shall not be invoked.\n * As the result type of the [block] is declared as
```

`Any?` and cannot be correctly type-checked,\n * its proper return type remains on the conscience of the suspend function's author.\n *\n * Invocation of [Continuation.resumeWith] resumes coroutine directly in the invoker's thread without going through the\n * [ContinuationInterceptor] that might be present in the coroutine's [CoroutineContext].\n * It is the invoker's responsibility to ensure that a proper invocation context is established.\n * [Continuation.intercepted] can be used to acquire the intercepted continuation.\n *\n * Note that
it is not recommended to call either [Continuation.resume] nor [Continuation.resumeWithException] functions synchronously\n * in the same stackframe where suspension function is run. Use [suspendCoroutine] as a safer way to obtain current\n * continuation instance.\n
*/\n@SinceKotlin(\"1.3\")\n@InlineOnly\n@Suppress(\"UNUSED_PARAMETER\", \"RedundantSuspendModifier\")\npublic suspend inline fun <T> suspendCoroutineUninterceptedOrReturn(crossinline block: (Continuation<T>) -> Any?): T {\n    contract { callsInPlace(block, InvocationKind.EXACTLY_ONCE) }\n    throw NotImplementedError(\"Implementation of suspendCoroutineUninterceptedOrReturn is intrinsic\")\n}\n\n/**\n * This value is used as a return value of [suspendCoroutineUninterceptedOrReturn] `block` argument to state that\n * the execution was suspended and will not return any result immediately.\n *\n * **Note: this value should not be used in general code.** Using it outside of the context of\n * `suspendCoroutineUninterceptedOrReturn`
function return value  (including, but not limited to,\n * storing this value in other properties, returning it from other functions, etc)\n * can lead to unspecified behavior of the code.\n */\n// It is implemented as property with getter to avoid ProGuard <clinit> problem with multifile IntrinsicsKt class\n@SinceKotlin(\"1.3\")\npublic val COROUTINE_SUSPENDED: Any get() = CoroutineSingletons.COROUTINE_SUSPENDED\n\n// Using enum here ensures two important properties:\n//  1. It makes SafeContinuation serializable with all kinds of serialization frameworks (since all of them natively support enums)\n//  2. It improves debugging experience, since you clearly see toString() value of those objects and what package they come from\n@SinceKotlin(\"1.3\")\n@PublishedApi // This class is Published API via serialized representation of SafeContinuation, don't rename/move\ninternal enum class CoroutineSingletons { COROUTINE_SUSPENDED, UNDECIDED, RESUMED }\n","/*\n * Copyright 2010-2018 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.experimental\n\n/** Performs a bitwise AND operation between the two values. */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline infix fun Byte.and(other: Byte): Byte = (this.toInt() and other.toInt()).toByte()\n\n/** Performs a bitwise OR operation between the two values. */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline infix fun Byte.or(other: Byte): Byte = (this.toInt() or other.toInt()).toByte()\n\n/** Performs a bitwise XOR operation between the two values. */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline infix fun Byte.xor(other: Byte): Byte = (this.toInt() xor other.toInt()).toByte()\n\n/** Inverts the bits in this value. */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.inv(): Byte = (this.toInt().inv()).toByte()\n\n\n/**
Performs a bitwise AND operation between the two values.
*/\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline infix fun Short.and(other: Short): Short = (this.toInt() and other.toInt()).toShort()\n\n/** Performs a bitwise OR operation between the two values.
*/\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline infix fun Short.or(other: Short): Short = (this.toInt() or other.toInt()).toShort()\n\n/** Performs a bitwise XOR operation between the two values.
*/\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline infix fun Short.xor(other: Short): Short = (this.toInt() xor other.toInt()).toShort()\n\n/** Inverts the bits in this value.
*/\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun Short.inv(): Short = (this.toInt().inv()).toShort()\n\n\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.experimental\n\n/**\n * The experimental marker for type inference augmenting annotations.\n *\n * Any usage of a declaration annotated with

`@ExperimentalTypeInference` must be accepted either by\n * annotating that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalTypeInference::class)`,\n * or by using the compiler argument `-Xopt-in=kotlin.experimental.ExperimentalTypeInference`.\n */\n@Suppress(\"DEPRECATION\")\n@Experimental(level = Experimental.Level.ERROR)\n@RequiresOptIn(level = RequiresOptIn.Level.ERROR)\n@MustBeDocumented\n@Retention(AnnotationRetention.BINARY)\n@Target(AnnotationTarget.ANNOTATION_CLASS)\n@SinceKotlin(\"1.3\")\npublic annotation class ExperimentalTypeInference\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.internal\n\n/**\n * Specifies that the corresponding type should be ignored during type inference.\n */\n@Target(AnnotationTarget.TYPE)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class NoInfer\n\n/**\n * Specifies that the constraint built for the type during type inference should be an equality one.\n */\n@Target(AnnotationTarget.TYPE)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class Exact\n\n/**\n * Specifies that a corresponding member has the lowest priority in overload resolution.\n */\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class LowPriorityInOverloadResolution\n\n/**\n * Specifies that the corresponding member has the highest priority in overload resolution. Effectively this means that\n * an extension annotated with this annotation will win in overload resolution over a member with the same signature.\n */\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class HidesMembers\n\n/**\n * The value of this type parameter should be mentioned in input types (argument types, receiver type or expected type).\n */\n@Target(AnnotationTarget.TYPE_PARAMETER)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class OnlyInputTypes\n\n/**\n * Specifies that this function should not be called directly without inlining\n */\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY, AnnotationTarget.PROPERTY_GETTER, AnnotationTarget.PROPERTY_SETTER)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class InlineOnly\n\n/**\n * Specifies that this declaration can have dynamic receiver type.\n */\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class DynamicExtension\n\n/**\n * The value of this parameter should be a property reference expression (`this::foo`), referencing a `lateinit` property,\n * the backing field of which is accessible at the point where the corresponding argument is passed.\n */\n@Target(AnnotationTarget.VALUE_PARAMETER)\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin(\"1.2\")\ninternal annotation class AccessibleLateinitPropertyLiteral\n\n/**\n * Specifies that this declaration is only completely supported since the specified version.\n *\n * The Kotlin compiler of an earlier version is going to report a diagnostic on usages of this declaration.\n * The diagnostic message can be specified with [message], or via [errorCode] (takes less space, but might not be immediately clear\n * to the user). The diagnostic severity can be specified with [level]: WARNING/ERROR mean that either a warning or an error\n * is going to be reported, HIDDEN means that the declaration is going to be removed from resolution completely.\n *\n * [versionKind] specifies which version should be compared with the [version] value, when compiling the usage of the annotated declaration.\n * Note that prior to 1.2, only [RequireKotlinVersionKind.LANGUAGE_VERSION] was supported, so the Kotlin compiler before 1.2 is going to\n * treat any [RequireKotlin] as if it requires the language version. Since 1.2, the Kotlin compiler supports\n * [RequireKotlinVersionKind.LANGUAGE_VERSION], [RequireKotlinVersionKind.COMPILER_VERSION] and [RequireKotlinVersionKind.API_VERSION].\n * If the actual value of [versionKind] is something different (e.g. a new version kind, added in future versions of Kotlin),\n * Kotlin 1.2 is going to ignore this [RequireKotlin]

```
altogether, where as Kotlin before 1.2 is going to treat this as a requirement\n * on the language version.\n *\n * This annotation is erased at compile time; its arguments are stored in a more compact form in the Kotlin metadata.\n */\n@Target(AnnotationTarget.CLASS, AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY, AnnotationTarget.CONSTRUCTOR, AnnotationTarget.TYPEALIAS)\n@Retention(AnnotationRetention.SOURCE)\n@Repeatable\n@SinceKotlin(\"1.2\")\ninternal annotation class RequireKotlin(\n    val version: String,\n    val message: String = \"\",\n    val level: DeprecationLevel = DeprecationLevel.ERROR,\n    val versionKind: RequireKotlinVersionKind = RequireKotlinVersionKind.LANGUAGE_VERSION,\n    val errorCode: Int = -1\n)\n\n/**\n * The kind of the version that is required by [RequireKotlin].\n */\n@SinceKotlin(\"1.2\")\ninternal enum class RequireKotlinVersionKind {\n    LANGUAGE_VERSION,\n    COMPILER_VERSION,\n    API_VERSION,\n}\n\n/**\n * Specifies that this declaration is a part of special DSL, used for constructing function's contract.\n */\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin(\"1.2\")\ninternal annotation class ContractsDsl\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.properties\n\nimport kotlin.reflect.KProperty\n\n/**\n * Standard property delegates.\n */\npublic object Delegates {\n    /**\n     * Returns a property delegate for a read/write property with a non-`null` value that is initialized not during\n     * object construction time but at a later time. Trying to read the property before the initial value has been\n     * assigned results in an exception.\n     *\n     * @sample samples.properties.Delegates.notNullDelegate\n     */\n    public fun <T : Any> notNull(): ReadWriteProperty<Any?, T> = NotNullVar()\n\n    /**\n     * Returns a property delegate for a read/write property that calls a specified callback function when changed.\n     * @param initialValue the initial value of the property.\n     * @param onChange the callback which is called after the change of the property is made. The value of the property\n     *  has already been changed when this callback is invoked.\n     *\n     * @sample samples.properties.Delegates.observableDelegate\n     */\n    public inline fun <T> observable(initialValue: T, crossinline onChange: (property: KProperty<*>, oldValue: T, newValue: T) -> Unit):\n            ReadWriteProperty<Any?, T> =\n        object : ObservableProperty<T>(initialValue) {\n            override fun afterChange(property: KProperty<*>, oldValue: T, newValue: T) = onChange(property, oldValue, newValue)\n        }\n\n    /**\n     * Returns a property delegate for a read/write property that calls a specified callback function when changed,\n     * allowing the callback to veto the modification.\n     * @param initialValue the initial value of the property.\n     * @param onChange the callback which is called before a change to the property value is attempted.\n     *  The value of the property hasn't been changed yet, when this callback is invoked.\n     *  If the callback returns `true` the value of the property is being set to the new value,\n     *  and if the callback returns `false` the new value is discarded and the property remains its old value.\n     *\n     * @sample samples.properties.Delegates.vetoableDelegate\n     * @sample samples.properties.Delegates.throwVetoableDelegate\n     */\n    public inline fun <T> vetoable(initialValue: T, crossinline onChange: (property: KProperty<*>, oldValue: T, newValue: T) -> Boolean):\n            ReadWriteProperty<Any?, T> =\n        object : ObservableProperty<T>(initialValue) {\n            override fun beforeChange(property: KProperty<*>, oldValue: T, newValue: T): Boolean = onChange(property, oldValue, newValue)\n        }\n\n}\n\n\nprivate class NotNullVar<T : Any>() : ReadWriteProperty<Any?, T> {\n    private var value: T? = null\n\n    public override fun getValue(thisRef: Any?, property: KProperty<*>): T {\n        return value ?: throw IllegalStateException(\"Property ${property.name} should be initialized before get.\")\n    }\n\n    public override fun setValue(thisRef: Any?, property: KProperty<*>, value: T) {\n        this.value = value\n    }\n}\n\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.properties\n\nimport kotlin.reflect.KProperty\n\n/**\n * Base
```

interface that can be used for implementing property delegates of read-only properties.\n *\n * This is provided only for convenience; you don't have to extend this interface\n * as long as your property delegate has methods with the same signatures.\n *\n * @param T the type of object which owns the delegated property.\n * @param V the type of the property value.\n */\npublic fun interface ReadOnlyProperty<in T, out V> {\n /**\n * Returns the value of the property for the given object.\n * @param thisRef the object for which the value is requested.\n * @param property the metadata for the property.\n * @return the property value.\n */\n public operator fun getValue(thisRef: T, property: KProperty<*>): V\n}\n\n/**\n * Base interface that can be used for implementing property delegates of read-write properties.\n *\n * This is provided only for convenience; you don't have to extend this interface\n * as long as your property delegate has methods with the same signatures.\n *\n * @param T the type of object which owns the delegated property.\n * @param V the type of the property value.\n */\npublic interface ReadWriteProperty<in T, V> : ReadOnlyProperty<T, V> {\n /**\n * Returns the value of the property for the given object.\n * @param thisRef the object for which the value is requested.\n * @param property the metadata for the property.\n * @return the property value.\n */\n public override operator fun getValue(thisRef: T, property: KProperty<*>): V\n\n /**\n * Sets the value of the property for the given object.\n * @param thisRef the object for which the value is requested.\n * @param property the metadata for the property.\n * @param value the value to set.\n */\n public operator fun setValue(thisRef: T, property: KProperty<*>, value: V)\n}\n\n/**\n * Base interface that can be used for implementing property delegate providers.\n *\n * This is provided only for convenience; you don't have to extend this interface\n * as long as your delegate provider has a method with the same signature.\n *\n * @param T the type of object which owns the delegated property.\n * @param D the type of property delegates this provider provides.\n */\n@SinceKotlin(\"1.4\")\npublic fun interface PropertyDelegateProvider<in T, out D> {\n /**\n * Returns the delegate of the property for the given object.\n *\n * This function can be used to extend the logic of creating the object (e.g. perform validation checks)\n * to which the property implementation is delegated.\n *\n * @param thisRef the object for which property delegate is requested.\n * @param property the metadata for the property.\n * @return the property delegate.\n */\n public operator fun provideDelegate(thisRef: T, property: KProperty<*>): D\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.properties\n\nimport kotlin.reflect.KProperty\n\n/**\n * Implements the core logic of a property delegate for a read/write property that calls callback functions when changed.\n * @param initialValue the initial value of the property.\n */\npublic abstract class ObservableProperty<V>(initialValue: V) : ReadWriteProperty<Any?, V> {\n private var value = initialValue\n\n /**\n * The callback which is called before a change to the property value is attempted.\n * The value of the property hasn't been changed yet, when this callback is invoked.\n * If the callback returns `true` the value of the property is being set to the new value,\n * and if the callback returns `false` the new value is discarded and the property remains its old value.\n */\n protected open fun beforeChange(property: KProperty<*>, oldValue: V, newValue: V): Boolean = true\n\n /**\n * The callback which is called after the change of the property is made. The value of the property\n * has already been changed when this callback is invoked.\n */\n protected open fun afterChange(property: KProperty<*>, oldValue: V, newValue: V): Unit {}\n\n public override fun getValue(thisRef: Any?, property: KProperty<*>): V {\n return value\n }\n\n public override fun setValue(thisRef: Any?, property: KProperty<*>, value: V) {\n val oldValue = this.value\n if (!beforeChange(property, oldValue, value)) {\n return\n }\n this.value = value\n afterChange(property, oldValue, value)\n }\n}","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:Suppress(\"PackageDirectoryMismatch\")\npackage kotlin\n\nimport kotlin.reflect.*\n\n/**\n * An extension operator that allows delegating a read-only property of type [V]\n * to a property reference to a property of type [V] or its subtype.\n *\n * @receiver A property reference to a read-only or mutable property of type [V] or its subtype.\n * The reference is without a receiver, i.e. it either references a top-level property or\n * has the

receiver bound to it.\n *\n * Example:\n *\n * ```\n * class Login(val username: String)\n * val defaultLogin = Login(\"Admin\")\n * val defaultUsername by defaultLogin::username\n * // equivalent to\n * val defaultUserName get() = defaultLogin.username\n * ```\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline operator fun <V> KProperty0<V>.getValue(thisRef: Any?, property: KProperty<*>): V {\n return get()\n}\n\n/**\n * An extension operator that allows delegating a mutable property of type [V]\n * to a property reference to a mutable property of the same type [V].\n *\n * @receiver A property reference to a mutable property of type [V].\n * The reference is without a receiver, i.e. it either references a top-level property or\n * has the receiver bound to it.\n *\n * Example:\n *\n * ```\n * class Login(val username: String, var incorrectAttemptCounter: Int = 0)\n * val defaultLogin = Login(\"Admin\")\n * var defaultLoginAttempts by defaultLogin::incorrectAttemptCounter\n * // equivalent to\n * var defaultLoginAttempts: Int\n * get() = defaultLogin.incorrectAttemptCounter\n * set(value) { defaultLogin.incorrectAttemptCounter = value }\n * ```\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline operator fun <V> KMutableProperty0<V>.setValue(thisRef: Any?, property: KProperty<*>, value: V) {\n set(value)\n}\n\n\n/**\n * An extension operator that allows delegating a read-only member or extension property of type [V]\n * to a property reference to a member or extension property of type [V] or its subtype.\n *\n * @receiver A property reference to a read-only or mutable property of type [V] or its subtype.\n * The reference has an unbound receiver of type [T].\n *\n * Example:\n *\n * ```\n * class Login(val username: String)\n * val Login.user by Login::username\n * // equivalent to\n * val Login.user get() = this.username\n * ```\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline operator fun <T, V> KProperty1<T, V>.getValue(thisRef: T, property: KProperty<*>): V {\n return get(thisRef)\n}\n\n/**\n * An extension operator that allows delegating a mutable member or extension property of type [V]\n * to a property reference to a member or extension mutable property of the same type [V].\n *\n * @receiver A property reference to a read-only or mutable property of type [V] or its subtype.\n * The reference has an unbound receiver of type [T].\n *\n * Example:\n *\n * ```\n * class Login(val username: String, var incorrectAttemptCounter: Int)\n * var Login.attempts by Login::incorrectAttemptCounter\n * // equivalent to\n * var Login.attempts: Int\n * get() = this.incorrectAttemptCounter\n * set(value) { this.incorrectAttemptCounter = value }\n * ```\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline operator fun <T, V> KMutableProperty1<T, V>.setValue(thisRef: T, property: KProperty<*>, value: V) {\n set(thisRef, value)\n}","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.random\n\nimport kotlin.math.nextDown\n\n/**\n * An abstract class that is implemented by random number generator algorithms.\n *\n * The companion object [Random.Default] is the default instance of [Random].\n *\n * To get a seeded instance of random generator use [Random] function.\n *\n * @sample samples.random.Randoms.defaultRandom\n */\n@SinceKotlin(\"1.3\")\npublic abstract class Random {\n\n /**\n * Gets the next random [bitCount] number of bits.\n *\n * Generates an `Int` whose lower [bitCount] bits are filled with random values and the remaining upper bits are zero.\n *\n * @param bitCount number of bits to generate, must be in range 0..32, otherwise the behavior is unspecified.\n *\n * @sample samples.random.Randoms.nextBits\n */\n public abstract fun nextBits(bitCount: Int): Int\n\n /**\n * Gets the next random `Int` from the random number generator.\n *\n * Generates an `Int` random value uniformly distributed between `Int.MIN_VALUE` and `Int.MAX_VALUE` (inclusive).\n *\n * @sample samples.random.Randoms.nextInt\n */\n public open fun nextInt(): Int = nextBits(32)\n\n /**\n * Gets the next random non-negative `Int` from the random number generator less than the specified [until] bound.\n *\n * Generates an `Int` random value uniformly distributed between `0` (inclusive) and the specified [until] bound (exclusive).\n *\n * @param until must be positive.\n *\n * @throws IllegalArgumentException if [until] is negative or zero.\n *\n * @sample samples.random.Randoms.nextIntFromUntil\n */\n public open fun nextInt(until: Int): Int = nextInt(0, until)\n\n /**\n * Gets the next random `Int` from the random number generator in the specified range.\n *\n * Generates an `Int` random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\n *\n * @throws IllegalArgumentException if [from] is greater than or equal to [until].\n

```
*\n     * @sample samples.random.Randoms.nextIntFromUntil\n     */\n
 public open fun nextInt(from: Int, until: Int): Int {\n        checkRangeBounds(from, until)\n        val n = until -
from\n        if (n > 0 || n == Int.MIN_VALUE) {\n            val rnd = if (n and -n == n) {\n                val bitCount =
fastLog2(n)\n                nextBits(bitCount)\n            } else {\n                var v: Int\n                do {\n                    val
bits = nextInt().ushr(1)\n                    v = bits % n\n                } while (bits - v + (n - 1) < 0)\n                v\n            }\n
            return from + rnd\n        } else {\n            while (true) {\n                val rnd = nextInt()\n                if (rnd in
from until until) return rnd\n            }\n        }\n    }\n\n    /**\n     * Gets the next random `Long` from the random
number generator.\n     *\n     * Generates a `Long` random value uniformly distributed between
`Long.MIN_VALUE` and `Long.MAX_VALUE` (inclusive).\n     *\n     * @sample
samples.random.Randoms.nextLong\n
    */\n    public open fun nextLong(): Long = nextInt().toLong().shl(32) + nextInt()\n\n    /**\n     * Gets the next
random non-negative `Long` from the random number generator less than the specified [until] bound.\n     *\n     *
Generates a `Long` random value uniformly distributed between `0` (inclusive) and the specified [until] bound
(exclusive).\n     *\n     * @param until must be positive.\n     *\n     * @throws IllegalArgumentException if [until]
is negative or zero.\n     *\n     * @sample samples.random.Randoms.nextLongFromUntil\n     */\n    public open fun
nextLong(until: Long): Long = nextLong(0, until)\n\n    /**\n     * Gets the next random `Long` from the random
number generator in the specified range.\n     *\n     * Generates a `Long` random value uniformly distributed
between the specified [from] (inclusive) and [until] (exclusive) bounds.\n     *\n     * @throws
IllegalArgumentException if [from] is greater than or equal to [until].\n     *\n     * @sample
samples.random.Randoms.nextLongFromUntil\n
    */\n    public open fun nextLong(from: Long, until: Long): Long {\n        checkRangeBounds(from, until)\n
val n = until - from\n        if (n > 0) {\n            val rnd: Long\n            if (n and -n == n) {\n                val nLow =
n.toInt()\n                val nHigh = (n ushr 32).toInt()\n                rnd = when {\n                    nLow != 0 -> {\n
        val bitCount = fastLog2(nLow)\n                        // toUInt().toLong()\n
nextBits(bitCount).toLong() and 0xFFFF_FFFF\n                    }\n                    nHigh == 1 ->\n                        //
toUInt().toLong()\n                        nextInt().toLong() and 0xFFFF_FFFF\n                    else -> {\n                        val
bitCount = fastLog2(nHigh)\n                        nextBits(bitCount).toLong().shl(32) + (nextInt().toLong() and
0xFFFF_FFFF)\n                    }\n                }\n            } else
            {\n                var v: Long\n                do {\n                    val bits = nextLong().ushr(1)\n                    v = bits % n\n
        } while (bits - v + (n - 1) < 0)\n                rnd = v\n            }\n            return from + rnd\n        } else {\n
while (true) {\n                val rnd = nextLong()\n                if (rnd in from until until) return rnd\n            }\n        }\n
}\n\n    /**\n     * Gets the next random [Boolean] value.\n     *\n     * @sample
samples.random.Randoms.nextBoolean\n     */\n    public open fun nextBoolean(): Boolean = nextBits(1) != 0\n\n
/**\n     * Gets the next random [Double] value uniformly distributed between 0 (inclusive) and 1 (exclusive).\n
*\n     * @sample samples.random.Randoms.nextDouble\n     */\n    public open fun nextDouble(): Double =
doubleFromParts(nextBits(26), nextBits(27))\n\n    /**\n     * Gets the next random non-negative `Double` from the
random number generator less than the
 specified [until] bound.\n     *\n     * Generates a `Double` random value uniformly distributed between 0
(inclusive) and [until] (exclusive).\n     *\n     * @throws IllegalArgumentException if [until] is negative or zero.\n
*\n     * @sample samples.random.Randoms.nextDoubleFromUntil\n     */\n    public open fun nextDouble(until:
Double): Double = nextDouble(0.0, until)\n\n    /**\n     * Gets the next random `Double` from the random number
generator in the specified range.\n     *\n     * Generates a `Double` random value uniformly distributed between the
specified [from] (inclusive) and [until] (exclusive) bounds.\n     *\n     * [from] and [until] must be finite otherwise
the behavior is unspecified.\n     *\n     * @throws IllegalArgumentException if [from] is greater than or equal to
[until].\n     *\n     * @sample samples.random.Randoms.nextDoubleFromUntil\n     */\n    public open fun
nextDouble(from: Double, until: Double): Double {\n        checkRangeBounds(from, until)\n
        val size = until - from\n        val r = if (size.isInfinite() && from.isFinite() && until.isFinite()) {\n            val r1
= nextDouble() * (until / 2 - from / 2)\n            from + r1 + r1\n        } else {\n            from + nextDouble() * size\n
```

```
}\n        return if (r >= until) until.nextDown() else r\n    }\n\n    /**\n     * Gets the next random [Float] value uniformly distributed between 0 (inclusive) and 1 (exclusive).\n     *\n     * @sample samples.random.Randoms.nextFloat\n     */\n    public open fun nextFloat(): Float = nextBits(24) / (1 shl 24).toFloat()\n\n    /**\n     * Fills a subrange of the specified byte [array] starting from [fromIndex] inclusive and ending [toIndex] exclusive\n     * with random bytes.\n     *\n     * @return [array] with the subrange filled with random bytes.\n     *\n     * @sample samples.random.Randoms.nextBytes\n     */\n    public open fun nextBytes(array: ByteArray, fromIndex: Int = 0, toIndex: Int = array.size): ByteArray {\n        require(fromIndex in 0..array.size && toIndex in 0..array.size) { \"fromIndex ($fromIndex) or toIndex ($toIndex) are out of range: 0..${array.size}.\" }\n        require(fromIndex <= toIndex) { \"fromIndex ($fromIndex) must be not greater than toIndex ($toIndex).\" }\n\n        val steps = (toIndex - fromIndex) / 4\n\n        var position = fromIndex\n        repeat(steps) {\n            val v = nextInt()\n            array[position] = v.toByte()\n            array[position + 1] = v.ushr(8).toByte()\n            array[position + 2] = v.ushr(16).toByte()\n            array[position + 3] = v.ushr(24).toByte()\n            position += 4\n        }\n\n        val remainder = toIndex - position\n        val vr = nextBits(remainder * 8)\n        for (i in 0 until remainder) {\n            array[position + i] = vr.ushr(i * 8).toByte()\n        }\n\n        return array\n    }\n\n    /**\n     * Fills the specified byte [array] with random bytes and returns it.\n     *\n     * @return [array] filled with random bytes.\n     *\n     * @sample samples.random.Randoms.nextBytes\n     */\n    public open fun nextBytes(array: ByteArray): ByteArray = nextBytes(array, 0, array.size)\n\n    /**\n     * Creates a byte array of the specified [size], filled with random bytes.\n     *\n     * @sample samples.random.Randoms.nextBytes\n     */\n    public open fun nextBytes(size: Int): ByteArray = nextBytes(ByteArray(size))\n\n\n    /**\n     * The default random number generator.\n     *\n     * On JVM this generator is thread-safe, its methods can be invoked from multiple threads.\n     *\n     * @sample samples.random.Randoms.defaultRandom\n     */\n    companion object Default : Random(), Serializable {\n        private val defaultRandom: Random = defaultPlatformRandom()\n\n        private object Serialized : Serializable {\n            private const val serialVersionUID = 0L\n\n            private fun readResolve(): Any = Random\n        }\n\n        private fun writeReplace(): Any = Serialized\n\n        override fun nextBits(bitCount: Int): Int = defaultRandom.nextBits(bitCount)\n        override fun nextInt(): Int = defaultRandom.nextInt()\n        override fun nextInt(until: Int): Int = defaultRandom.nextInt(until)\n        override fun nextInt(from: Int, until: Int): Int = defaultRandom.nextInt(from, until)\n\n        override fun nextLong(): Long = defaultRandom.nextLong()\n        override fun nextLong(until: Long): Long = defaultRandom.nextLong(until)\n        override fun nextLong(from: Long, until: Long): Long = defaultRandom.nextLong(from, until)\n\n        override fun nextBoolean(): Boolean = defaultRandom.nextBoolean()\n\n        override fun nextDouble(): Double = defaultRandom.nextDouble()\n        override fun nextDouble(until: Double): Double = defaultRandom.nextDouble(until)\n        override fun nextDouble(from: Double, until: Double): Double = defaultRandom.nextDouble(from, until)\n\n        override fun nextFloat(): Float = defaultRandom.nextFloat()\n\n        override fun nextBytes(array: ByteArray): ByteArray = defaultRandom.nextBytes(array)\n        override fun nextBytes(size: Int): ByteArray = defaultRandom.nextBytes(size)\n        override fun nextBytes(array: ByteArray, fromIndex: Int, toIndex: Int): ByteArray =\n            defaultRandom.nextBytes(array, fromIndex, toIndex)\n    }\n}\n\n/**\n * Returns a repeatable random number generator seeded with the given [seed] `Int` value.\n *\n * Two generators with the same seed produce the same sequence of values within the same version of Kotlin runtime.\n *\n * *Note:* Future versions of Kotlin may change the algorithm of this seeded number generator so that it will return\n * a sequence of values different from the current one for a given seed.\n *\n * On JVM the returned generator is NOT thread-safe. Do not invoke it from multiple threads without proper synchronization.\n *\n * @sample samples.random.Randoms.seededRandom\n */\n@SinceKotlin(\"1.3\")\npublic fun Random(seed: Int): Random = XorWowRandom(seed, seed.shr(31))\n\n/**\n * Returns a repeatable random number generator seeded with the given [seed] `Long` value.\n *\n * Two generators with the same seed produce the same sequence of values within the same version of Kotlin runtime.\n *\n * *Note:* Future versions of Kotlin may
```

change the algorithm of this seeded number generator so that it will return\n * a sequence of values different from the current one for a given seed.\n *\n * On JVM the returned generator is NOT thread-safe. Do not invoke it from multiple threads without proper synchronization.\n *\n * @sample samples.random.Randoms.seededRandom\n */\n@SinceKotlin(\"1.3\")\npublic fun Random(seed: Long): Random = XorWowRandom(seed.toInt(), seed.shr(32).toInt())\n\n\n/**\n * Gets the next random `Int` from the random number generator in the specified [range].\n *\n * Generates an `Int` random value uniformly distributed in the specified [range]:\n * from `range.start` inclusive to `range.endInclusive` inclusive.\n *\n * @throws IllegalArgumentException if [range] is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun Random.nextInt(range: IntRange): Int = when {\n range.isEmpty() -> throw IllegalArgumentException(\"Cannot get random in empty range: $range\")\n range.last < Int.MAX_VALUE -> nextInt(range.first, range.last + 1)\n range.first > Int.MIN_VALUE -> nextInt(range.first - 1, range.last) + 1\n else -> nextInt()\n}\n\n/**\n * Gets the next random `Long` from the random number generator in the specified [range].\n *\n * Generates a `Long` random value uniformly distributed in the specified [range]:\n * from `range.start` inclusive to `range.endInclusive` inclusive.\n *\n * @throws IllegalArgumentException if [range] is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun Random.nextLong(range: LongRange): Long = when {\n range.isEmpty() -> throw IllegalArgumentException(\"Cannot get random in empty range: $range\")\n range.last < Long.MAX_VALUE
-> nextLong(range.first, range.last + 1)\n range.first > Long.MIN_VALUE -> nextLong(range.first - 1, range.last) + 1\n else -> nextLong()\n}\n\n\ninternal expect fun defaultPlatformRandom(): Random\ninternal expect fun doubleFromParts(hi26: Int, low27: Int): Double\n\ninternal fun fastLog2(value: Int): Int = 31 - value.countLeadingZeroBits()\n\n/** Takes upper [bitCount] bits (0..32) from this number. */\ninternal fun Int.takeUpperBits(bitCount: Int): Int =\n this.ushr(32 - bitCount) and (-bitCount).shr(31)\n\ninternal fun checkRangeBounds(from: Int, until: Int) = require(until > from) { boundsErrorMessage(from, until) }\ninternal fun checkRangeBounds(from: Long, until: Long) = require(until > from) { boundsErrorMessage(from, until) }\ninternal fun checkRangeBounds(from: Double, until: Double) = require(until > from) { boundsErrorMessage(from, until) }\n\ninternal fun boundsErrorMessage(from: Any, until: Any) = \"Random range is empty: [$from, $until).\"\n","/*\n * Copyright
2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.random\n\n\n/**\n * Gets the next random [UInt] from the random number generator.\n *\n * Generates a [UInt] random value uniformly distributed between [UInt.MIN_VALUE] and [UInt.MAX_VALUE] (inclusive).\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Random.nextUInt(): UInt = nextInt().toUInt()\n\n/**\n * Gets the next random [UInt] from the random number generator less than the specified [until] bound.\n *\n * Generates a [UInt] random value uniformly distributed between `0` (inclusive) and the specified [until] bound (exclusive).\n *\n * @throws IllegalArgumentException if [until] is zero.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Random.nextUInt(until: UInt): UInt = nextUInt(0u,
until)\n\n/**\n * Gets the next random [UInt] from the random number generator in the specified range.\n *\n * Generates a [UInt] random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\n *\n * @throws IllegalArgumentException if [from] is greater than or equal to [until].\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Random.nextUInt(from: UInt, until: UInt): UInt {\n checkUIntRangeBounds(from, until)\n\n val signedFrom = from.toInt() xor Int.MIN_VALUE\n val signedUntil = until.toInt() xor Int.MIN_VALUE\n\n val signedResult = nextInt(signedFrom, signedUntil) xor Int.MIN_VALUE\n return signedResult.toUInt()\n}\n\n/**\n * Gets the next random [UInt] from the random number generator in the specified [range].\n *\n * Generates a [UInt] random value uniformly distributed in the specified [range]:\n * from `range.start` inclusive to `range.endInclusive` inclusive.\n *\n * @throws
IllegalArgumentException if [range] is empty.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun

Random.nextUInt(range: UIntRange): UInt = when {\n    range.isEmpty() -> throw IllegalArgumentException(\"Cannot get random in empty range: $range\")\n    range.last < UInt.MAX_VALUE -> nextUInt(range.first, range.last + 1u)\n    range.first > UInt.MIN_VALUE -> nextUInt(range.first - 1u, range.last) + 1u\n    else -> nextUInt()\n}\n\n/**\n * Gets the next random [ULong] from the random number generator.\n *\n * Generates a [ULong] random value uniformly distributed between [ULong.MIN_VALUE] and [ULong.MAX_VALUE] (inclusive).\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Random.nextULong(): ULong = nextLong().toULong()\n\n/**\n * Gets the next random [ULong] from the random number generator less than the specified [until] bound.\n *\n * Generates a [ULong] random value uniformly distributed between `0`
 (inclusive) and the specified [until] bound (exclusive).\n *\n * @throws IllegalArgumentException if [until] is zero.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Random.nextULong(until: ULong): ULong = nextULong(0uL, until)\n\n/**\n * Gets the next random [ULong] from the random number generator in the specified range.\n *\n * Generates a [ULong] random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\n *\n * @throws IllegalArgumentException if [from] is greater than or equal to [until].\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Random.nextULong(from: ULong, until: ULong): ULong {\n    checkULongRangeBounds(from, until)\n\n    val signedFrom = from.toLong() xor Long.MIN_VALUE\n    val signedUntil = until.toLong() xor Long.MIN_VALUE\n\n    val signedResult = nextLong(signedFrom, signedUntil) xor Long.MIN_VALUE\n    return signedResult.toULong()\n}\n\n/**\n
 * Gets the next random [ULong] from the random number generator in the specified [range].\n *\n * Generates a [ULong] random value uniformly distributed in the specified [range]:\n * from `range.start` inclusive to `range.endInclusive` inclusive.\n *\n * @throws IllegalArgumentException if [range] is empty.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Random.nextULong(range: ULongRange): ULong = when {\n    range.isEmpty() -> throw IllegalArgumentException(\"Cannot get random in empty range: $range\")\n    range.last < ULong.MAX_VALUE -> nextULong(range.first, range.last + 1u)\n    range.first > ULong.MIN_VALUE -> nextULong(range.first - 1u, range.last) + 1u\n    else -> nextULong()\n}\n\n/**\n * Fills the specified unsigned byte [array] with random bytes and returns it.\n *\n * @return [array] filled with random bytes.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Random.nextUBytes(array: UByteArray):
 UByteArray {\n    nextBytes(array.asByteArray())\n    return array\n}\n\n/**\n * Creates an unsigned byte array of the specified [size], filled with random bytes.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Random.nextUBytes(size: Int): UByteArray = nextBytes(size).asUByteArray()\n\n/**\n * Fills a subrange of the specified `UByte` [array] starting from [fromIndex] inclusive and ending [toIndex] exclusive with random UBytes.\n *\n * @return [array] with the subrange filled with random bytes.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Random.nextUBytes(array: UByteArray, fromIndex: Int = 0, toIndex: Int = array.size): UByteArray {\n    nextBytes(array.asByteArray(), fromIndex, toIndex)\n    return array\n}\n\n\ninternal fun checkUIntRangeBounds(from: UInt, until: UInt) = require(until > from) { boundsErrorMessage(from, until) }\ninternal fun checkULongRangeBounds(from: ULong, until: ULong) = require(until > from) { boundsErrorMessage(from,
 until) }\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.random\n\n/**\n * Random number generator, using Marsaglia's \"xorwow\" algorithm\n *\n * Cycles after 2^192 - 2^32 repetitions.\n *\n * For more details, see Marsaglia, George (July 2003). \"Xorshift RNGs\". Journal of Statistical Software. 8 (14). doi:10.18637/jss.v008.i14\n *\n * Available at https://www.jstatsoft.org/v08/i14/paper\n *\n */\ninternal class XorWowRandom internal constructor(\n    private var x: Int,\n    private var y: Int,\n    private var z: Int,\n    private var w: Int,\n    private var v: Int,\n    private var

addend: Int\n) : Random(), Serializable {\n\n    internal constructor(seed1: Int, seed2: Int) :\n            this(seed1, seed2, 0, 0, seed1.inv(), (seed1 shl 10) xor (seed2 ushr 4))\n\n    init {\n        require((x or y or z or w or v) != 0) { \"Initial state must have at least one non-zero element.\" }\n\n        // some trivial seeds can produce several values with zeroes in upper bits, so we discard first 64\n        repeat(64) { nextInt() }\n    }\n\n    override fun nextInt(): Int {\n        // Equivalent to the xorxow algorithm\n        // From Marsaglia, G. 2003. Xorshift RNGs. J. Statis. Soft. 8, 14, p. 5\n        var t = x\n        t = t xor (t ushr 2)\n        x = y\n        y = z\n        z = w\n        val v0 = v\n        w = v0\n        t = (t xor (t shl 1)) xor v0 xor (v0 shl 4)\n        v = t\n        addend += 362437\n        return t + addend\n    }\n\n    override fun nextBits(bitCount: Int): Int =\n        nextInt().takeUpperBits(bitCount)\n\n    private companion object {\n        private const val serialVersionUID: Long = 0L\n    }\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"RangesKt\")\n\npackage kotlin.ranges\n\n/**\n * Represents a range of [Comparable] values.\n */\nprivate open class ComparableRange<T : Comparable<T>>(\n    override val start: T,\n    override val endInclusive: T\n) : ClosedRange<T> {\n\n    override fun equals(other: Any?): Boolean {\n        return other is ComparableRange<*> && (isEmpty() && other.isEmpty() ||\n                start == other.start && endInclusive == other.endInclusive)\n    }\n\n    override fun hashCode(): Int {\n        return if (isEmpty()) -1 else 31 * start.hashCode() + endInclusive.hashCode()\n    }\n\n    override fun toString(): String = \"$start..$endInclusive\"\n}\n\n/**\n * Creates a range from this [Comparable] value to the specified [that] value.\n *\n * This value needs to be smaller than or equal to [that] value, otherwise the returned range will be empty.\n
 * @sample samples.ranges.Ranges.rangeFromComparable\n */\npublic operator fun <T : Comparable<T>> T.rangeTo(that: T): ClosedRange<T> = ComparableRange(this, that)\n\n\n/**\n * Represents a range of floating point numbers.\n * Extends [ClosedRange] interface providing custom operation [lessThanOrEquals] for comparing values of range domain type.\n *\n * This interface is implemented by floating point ranges returned by [Float.rangeTo] and [Double.rangeTo] operators to\n * achieve IEEE-754 comparison order instead of total order of floating point numbers.\n */\n@SinceKotlin(\"1.1\")\npublic interface ClosedFloatingPointRange<T : Comparable<T>> : ClosedRange<T> {\n    override fun contains(value: T): Boolean = lessThanOrEquals(start, value) && lessThanOrEquals(value, endInclusive)\n    override fun isEmpty(): Boolean = !lessThanOrEquals(start, endInclusive)\n\n    /**\n     * Compares two values of range domain type and returns true if first is less than or equal to second.\n     */\n
    fun lessThanOrEquals(a: T, b: T): Boolean\n}\n\n\n/**\n * A closed range of values of type `Double`.\n *\n * Numbers are compared with the ends of this range according to IEEE-754.\n */\nprivate class ClosedDoubleRange(\n    start: Double,\n    endInclusive: Double\n) : ClosedFloatingPointRange<Double> {\n    private val _start = start\n    private val _endInclusive = endInclusive\n    override val start: Double get() = _start\n    override val endInclusive: Double get() = _endInclusive\n\n    override fun lessThanOrEquals(a: Double, b: Double): Boolean = a <= b\n\n    override fun contains(value: Double): Boolean = value >= _start && value <= _endInclusive\n    override fun isEmpty(): Boolean = !(_start <= _endInclusive)\n\n    override fun equals(other: Any?): Boolean {\n        return other is ClosedDoubleRange && (isEmpty() && other.isEmpty() ||\n                _start == other._start && _endInclusive == other._endInclusive)\n    }\n\n    override fun hashCode(): Int {\n        return if (isEmpty()) -1 else 31 * _start.hashCode() + _endInclusive.hashCode()\n    }\n\n    override fun toString(): String = \"$_start..$_endInclusive\"\n}\n\n/**\n * Creates a range from this [Double] value to the specified [that] value.\n *\n * Numbers are compared with the ends of this range according to IEEE-754.\n * @sample samples.ranges.Ranges.rangeFromDouble\n */\n@SinceKotlin(\"1.1\")\npublic operator fun Double.rangeTo(that: Double): ClosedFloatingPointRange<Double> = ClosedDoubleRange(this, that)\n\n\n/**\n * A closed range of values of type `Float`.\n *\n * Numbers are compared with the ends of this range according to IEEE-754.\n */\nprivate class ClosedFloatRange(\n    start: Float,\n    endInclusive: Float\n) : ClosedFloatingPointRange<Float> {\n    private val _start = start\n    private val _endInclusive = endInclusive\n    override val start: Float get() =

```
_start\n    override val endInclusive: Float get() = _endInclusive\n\n    override fun lessThanOrEquals(a: Float,
 b: Float): Boolean = a <= b\n\n    override fun contains(value: Float): Boolean = value >= _start && value <=
_endInclusive\n    override fun isEmpty(): Boolean = !(_start <= _endInclusive)\n\n    override fun equals(other:
Any?): Boolean {\n        return other is ClosedFloatRange && (isEmpty() && other.isEmpty() ||\n                _start
== other._start && _endInclusive == other._endInclusive)\n    }\n\n    override fun hashCode(): Int {\n        return if
(isEmpty()) -1 else 31 * _start.hashCode() + _endInclusive.hashCode()\n    }\n\n    override fun toString(): String =
\"$_start..$_endInclusive\"\n}\n\n/**\n * Creates a range from this [Float] value to the specified [that] value.\n *\n *
Numbers are compared with the ends of this range according to IEEE-754.\n * @sample
samples.ranges.Ranges.rangeFromFloat\n */\n@SinceKotlin(\"1.1\")\npublic operator fun Float.rangeTo(that:
Float): ClosedFloatingPointRange<Float> = ClosedFloatRange(this, that)\n\n\n/**\n * Returns `true` if this
 iterable range contains the specified [element].\n *\n * Always returns `false` if the [element] is `null`.\n
*/\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline operator fun <T, R> R.contains(element: T?):
Boolean where T : Any, R : Iterable<T>, R : ClosedRange<T> =\n    element != null &&
contains(element)\n\n\ninternal fun checkStepIsPositive(isPositive: Boolean, step: Number) {\n    if (!isPositive)
throw IllegalArgumentException(\"Step must be positive, was: $step.\")\n}\n","/*\n * Copyright 2010-2019
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmName(\"KClasses\")\n@file:Suppress(\"UNCHECKED_CAST\")\n\npackage
kotlin.reflect\n\nimport kotlin.internal.LowPriorityInOverloadResolution\n\n/**\n * Casts the given [value] to the
class represented by this [KClass] object.\n * Throws an exception if the value is
 `null` or if it is not an instance of this class.\n *\n * This is an experimental function that behaves as a similar
function from kotlin.reflect.full on JVM.\n *\n * @see [KClass.isInstance]\n * @see [KClass.safeCast]\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@LowPriorityInOverloadResoluti
on\nfun <T : Any> KClass<T>.cast(value: Any?): T {\n    if (!isInstance(value)) throw ClassCastException(\"Value
cannot be cast to $qualifiedOrSimpleName\")\n    return value as T\n}\n\n// TODO: replace with qualifiedName
when it is fully supported in K/JS\ninternal expect val KClass<*>.qualifiedOrSimpleName: String?\n\n/**\n * Casts
the given [value] to the class represented by this [KClass] object.\n * Returns `null` if the value is `null` or if it is not
an instance of this class.\n *\n * This is an experimental function that behaves as a similar function from
kotlin.reflect.full on JVM.\n *\n * @see [KClass.isInstance]\n * @see [KClass.cast]\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@LowPriorityInOverloadResoluti
on\nfun
 <T : Any> KClass<T>.safeCast(value: Any?): T? {\n    return if (isInstance(value)) value as T else null\n}\n","/*\n
* Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.reflect\n\nimport kotlin.jvm.JvmField\nimport kotlin.jvm.JvmStatic\n\n\n\n/**\n * Represents a type
projection. Type projection is usually the argument to another type in a type usage.\n * For example, in the type
`Array<out Number>`, `out Number` is the covariant projection of the type represented by the class `Number`.\n *\n
* Type projection is either the star projection, or an entity consisting of a specific type plus optional variance.\n *\n
* See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/generics.html#type-projections)\n
 * for more information.\n */\n@SinceKotlin(\"1.1\")\npublic data class KTypeProjection constructor(\n    /**\n     *
The use-site variance specified in the projection, or `null` if this is a star projection.\n     */\n    public val variance:
KVariance?,\n    /**\n     * The type specified in the projection, or `null` if this is a star projection.\n     */\n    public
val type: KType?\n) {\n\n    init {\n        require((variance == null) == (type == null)) {\n            if (variance ==
null)\n                \"Star projection must have no type specified.\"\n            else\n                \"The projection variance
$variance requires type to be specified.\"\n        }\n    }\n\n    override fun toString(): String = when (variance) {\n
 null -> \"*\"\n        KVariance.INVARIANT -> type.toString()\n        KVariance.IN -> \"in $type\"\n
KVariance.OUT -> \"out $type\"\n    }\n\n    public companion object {\n        // provided for compiler access\n
@JvmField\n
```

@PublishedApi\n internal val star: KTypeProjection = KTypeProjection(null, null)\n\n /**\n * Star projection, denoted by the `*` character.\n * For example, in the type `KClass<*>`, `*` is the star projection.\n * See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/generics.html#star-projections)\n * for more information.\n */\n public val STAR: KTypeProjection get() = star\n\n /**\n * Creates an invariant projection of a given type. Invariant projection is just the type itself,\n * without any use-site variance modifiers applied to it.\n * For example, in the type `Set<String>`, `String` is an invariant projection of the type represented by the class `String`.\n */\n @JvmStatic\n public fun invariant(type: KType): KTypeProjection =\n KTypeProjection(KVariance.INVARIANT, type)\n\n /**\n * Creates a contravariant projection of a given type, denoted by the `in` modifier applied to a type.\n * For example, in the type `MutableList<in Number>`, `in Number` is a contravariant projection of the type of class `Number`.\n */\n @JvmStatic\n public fun contravariant(type: KType): KTypeProjection =\n KTypeProjection(KVariance.IN, type)\n\n /**\n * Creates a covariant projection of a given type, denoted by the `out` modifier applied to a type.\n * For example, in the type `Array<out Number>`, `out Number` is a covariant projection of the type of class `Number`.\n */\n @JvmStatic\n public fun covariant(type: KType): KTypeProjection =\n KTypeProjection(KVariance.OUT, type)\n }\n}","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect\n\n/**\n * Represents variance applied to a type parameter on the declaration site (*declaration-site variance*),\n * or to a type in a projection (*use-site variance*).\n *\n * See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/generics.html#variance)\n * for more information.\n *\n * @see [KTypeParameter.variance]\n * @see [KTypeProjection]\n */\n@SinceKotlin(\"1.1\")\nenum class KVariance {\n /**\n * The affected type parameter or type is *invariant*, which means it has no variance applied to it.\n */\n INVARIANT,\n\n /**\n * The affected type parameter or type is *contravariant*. Denoted by the `in` modifier in the source code.\n */\n IN,\n\n /**\n * The affected type parameter or type is *covariant*. Denoted by the `out` modifier in the source code.\n */\n OUT,\n}","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect\n\n/**\n * Returns a runtime representation of the given reified type [T] as an instance of [KType].\n */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <reified T> typeOf(): KType =\n throw UnsupportedOperationException(\"This function is implemented as an intrinsic on all supported platforms.\")\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"StringsKt\")\n\npackage kotlin.text\n\n/**\n * An object to which char sequences and values can be appended.\n */\nexpect interface Appendable {\n /**\n * Appends the specified character [value] to this Appendable and returns this instance.\n *\n * @param value the character to append.\n */\n fun append(value: Char): Appendable\n\n /**\n * Appends the specified character sequence [value] to this Appendable and returns this instance.\n *\n * @param value the character sequence to append. If [value] is `null`, then the four characters `\"null\"` are appended to this Appendable.\n */\n fun append(value: CharSequence?): Appendable\n\n /**\n * Appends a subsequence of the specified character sequence [value] to this Appendable and returns this instance.\n *\n * @param value the character sequence from which a subsequence is appended. If [value] is `null`,\n * then characters are appended as if [value] contained the four characters `\"null\"`.\n * @param startIndex the beginning (inclusive) of the subsequence to append.\n * @param endIndex the end (exclusive) of the subsequence to append.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex]

```
is out of range of the [value] character sequence indices or when `startIndex > endIndex`.\n     */\n    fun append(value: CharSequence?, startIndex: Int, endIndex: Int): Appendable\n}\n\n/**\n * Appends a subsequence of the specified character sequence [value] to this Appendable and returns this instance.\n *\n * @param value the character sequence from which a subsequence is appended.\n * @param startIndex the beginning (inclusive) of the subsequence to append.\n * @param endIndex the end (exclusive) of the subsequence to append.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T : Appendable> T.appendRange(value: CharSequence, startIndex: Int, endIndex: Int): T {\n@Suppress(\"UNCHECKED_CAST\")\n    return append(value, startIndex, endIndex) as T\n}\n\n/**\n * Appends all arguments to the given [Appendable].\n */\npublic fun <T : Appendable> T.append(vararg value: CharSequence?): T {\n    for (item in value)\n        append(item)\n    return this\n}\n\n/** Appends a line feed character (`\\n`) to this Appendable. */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun Appendable.appendLine(): Appendable = append('\\n')\n\n/** Appends value to the given Appendable and a line feed character (`\\n`) after it. */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun Appendable.appendLine(value: CharSequence?): Appendable = append(value).appendLine()\n\n/** Appends value to the given Appendable and a line feed character (`\\n`) after it. */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun Appendable.appendLine(value: Char): Appendable = append(value).appendLine()\n\n\ninternal fun <T> Appendable.appendElement(element: T, transform: ((T) -> CharSequence)?) {\n    when {\n        transform != null -> append(transform(element))\n        element is CharSequence? -> append(element)\n        element is Char -> append(element)\n        else -> append(element.toString())\n    }\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"StringsKt\")\n\npackage kotlin.text\n\n/**\n * Trims leading whitespace characters followed by [marginPrefix] from every line of a source string and removes\n * the first and the last lines if they are blank (notice difference blank vs empty).\n *\n * Doesn't affect a line if it doesn't contain [marginPrefix] except the first and the last blank lines.\n *\n * Doesn't preserve the original line endings.\n *\n * @param marginPrefix non-blank string, which is used as a margin delimiter. Default is `|` (pipe character).\n *\n * @sample samples.text.Strings.trimMargin\n * @see trimIndent\n * @see kotlin.text.isWhitespace\n */\npublic fun String.trimMargin(marginPrefix: String = \"|\"): String =\n    replaceIndentByMargin(\"\", marginPrefix)\n\n/**\n * Detects indent by [marginPrefix] as it does [trimMargin] and replace it with [newIndent].\n *\n * @param marginPrefix non-blank string, which is used as a margin delimiter. Default is `|` (pipe character).\n */\npublic fun String.replaceIndentByMargin(newIndent: String = \"\", marginPrefix: String = \"|\"): String {\n    require(marginPrefix.isNotBlank()) { \"marginPrefix must be non-blank string.\" }\n    val lines = lines()\n\n    return lines.reindent(length + newIndent.length * lines.size, getIndentFunction(newIndent), { line ->\n        val firstNonWhitespaceIndex = line.indexOfFirst { !it.isWhitespace() }\n\n        when {\n            firstNonWhitespaceIndex == -1 -> null\n            line.startsWith(marginPrefix, firstNonWhitespaceIndex) ->\n                line.substring(firstNonWhitespaceIndex + marginPrefix.length)\n            else -> null\n        }\n    })\n}\n\n/**\n * Detects a common minimal indent of all the input lines, removes it from every line and also removes the first and the last\n * lines if they are blank (notice difference blank vs empty).\n *\n * Note that blank lines do not affect the detected indent level.\n *\n * In case if there are non-blank lines with no leading whitespace characters (no indent at all) then the\n * common indent is 0, and therefore this function doesn't change the indentation.\n *\n * Doesn't preserve the original line endings.\n *\n * @sample samples.text.Strings.trimIndent\n * @see trimMargin\n * @see kotlin.text.isBlank\n */\npublic fun String.trimIndent(): String = replaceIndent(\"\")\n\n/**\n * Detects a common minimal indent like it does [trimIndent] and replaces it with the specified [newIndent].\n */\npublic fun String.replaceIndent(newIndent: String = \"\"): String {\n    val lines = lines()\n\n
```

```
    val minCommonIndent = lines\n        .filter(String::isNotBlank)\n        .map(String::indentWidth)\n
.minOrNull() ?: 0\n\n    return lines.reindent(length + newIndent.length * lines.size, getIndentFunction(newIndent),
{ line -> line.drop(minCommonIndent) })\n}\n\n/**\n * Prepends [indent] to every line of the original string.\n *\n *
Doesn't preserve the original line endings.\n */\npublic fun String.prependIndent(indent: String = \"    \"): String =\n
 lineSequence()\n        .map {\n            when {\n                it.isBlank() -> {\n                    when {\n
it.length < indent.length -> indent\n                        else -> it\n                    }\n                }\n
else -> indent + it\n            }\n        }\n        .joinToString(\"\\n\")\n\nprivate fun String.indentWidth(): Int = indexOfFirst {
!it.isWhitespace() }.let { if (it == -1) length else it }\n\nprivate fun getIndentFunction(indent: String) = when
 {\n    indent.isEmpty() -> { line: String -> line }\n    else -> { line: String -> indent + line }\n}\n\nprivate inline fun
List<String>.reindent(\n    resultSizeEstimate: Int,\n    indentAddFunction: (String) -> String,\n
indentCutFunction: (String) -> String?\n): String {\n    val lastIndex = lastIndex\n    return mapIndexedNotNull {
index, value ->\n        if ((index == 0 || index == lastIndex) && value.isBlank())\n            null\n        else\n
indentCutFunction(value)?.let(indentAddFunction) ?: value\n    }\n        .joinTo(StringBuilder(resultSizeEstimate),
\"\\n\")\n        .toString()\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/**\n * Defines names for Unicode symbols used in proper
Typography.\n */\npublic object Typography {\n    /** The character &#x22; \u2013
 quotation mark */\n    public const val quote: Char = '\\u0022'\n    /** The character &#x24; \u2013 dollar sign */\n
 public const val dollar: Char = '\\u0024'\n    /** The character &#x26; \u2013 ampersand */\n    public const val
amp: Char = '\\u0026'\n    /** The character &#x3C; \u2013 less-than sign */\n    public const val less: Char =
'\\u003C'\n    /** The character &#x3E; \u2013 greater-than sign */\n    public const val greater: Char = '\\u003E'\n
/** The non-breaking space character */\n    public const val nbsp: Char = '\\u00A0'\n    /** The character &#xD7;
*/\n    public const val times: Char = '\\u00D7'\n    /** The character &#xA2; */\n    public const val cent: Char =
'\\u00A2'\n    /** The character &#xA3; */\n    public const val pound: Char = '\\u00A3'\n    /** The character
&#xA7; */\n    public const val section: Char = '\\u00A7'\n    /** The character &#xA9; */\n    public const val
copyright: Char = '\\u00A9'\n    /** The character &#xAB; */\n    @SinceKotlin(\"1.6\")\n
    public const val leftGuillemet: Char = '\\u00AB'\n    /** The character &#xBB; */\n    @SinceKotlin(\"1.6\")\n
public const val rightGuillemet: Char = '\\u00BB'\n    /** The character &#xAE; */\n    public const val registered:
Char = '\\u00AE'\n    /** The character &#xB0; */\n    public const val degree: Char = '\\u00B0'\n    /** The
character &#xB1; */\n    public const val plusMinus: Char = '\\u00B1'\n    /** The character &#xB6; */\n    public
const val paragraph: Char = '\\u00B6'\n    /** The character &#xB7; */\n    public const val middleDot: Char =
'\\u00B7'\n    /** The character &#xBD; */\n    public const val half: Char = '\\u00BD'\n    /** The character
&#x2013; */\n    public const val ndash: Char = '\\u2013'\n    /** The character &#x2014; */\n    public const val
mdash: Char = '\\u2014'\n    /** The character &#x2018; */\n    public const val leftSingleQuote: Char = '\\u2018'\n
/** The character &#x2019; */\n    public const val rightSingleQuote:
 Char = '\\u2019'\n    /** The character &#x201A; */\n    public const val lowSingleQuote: Char = '\\u201A'\n    /**
The character &#x201C; */\n    public const val leftDoubleQuote: Char = '\\u201C'\n    /** The character &#x201D;
*/\n    public const val rightDoubleQuote: Char = '\\u201D'\n    /** The character &#x201E; */\n    public const val
lowDoubleQuote: Char = '\\u201E'\n    /** The character &#x2020; */\n    public const val dagger: Char =
'\\u2020'\n    /** The character &#x2021; */\n    public const val doubleDagger: Char = '\\u2021'\n    /** The
character &#x2022; */\n    public const val bullet: Char = '\\u2022'\n    /** The character &#x2026; */\n    public
const val ellipsis: Char = '\\u2026'\n    /** The character &#x2032; */\n    public const val prime: Char = '\\u2032'\n
/** The character &#x2033; */\n    public const val doublePrime: Char = '\\u2033'\n    /** The character &#x20AC;
*/\n    public const val euro: Char = '\\u20AC'\n    /** The character &#x2122;
 */\n    public const val tm: Char = '\\u2122'\n    /** The character &#x2248; */\n    public const val almostEqual:
Char = '\\u2248'\n    /** The character &#x2260; */\n    public const val notEqual: Char = '\\u2260'\n    /** The
character &#x2264; */\n    public const val lessOrEqual: Char = '\\u2264'\n    /** The character &#x2265; */\n
public const val greaterOrEqual: Char = '\\u2265'\n\n    /** The character &#xAB; */\n    @Deprecated(\"This
```

constant has a typo in the name. Use leftGuillemet instead.\", ReplaceWith(\"Typography.leftGuillemet\"))\n @DeprecatedSinceKotlin(\"1.6\")\n public const val leftGuillemete: Char = '\\u00AB'\n\n /** The character » */\n @Deprecated(\"This constant has a typo in the name. Use rightGuillemet instead.\", ReplaceWith(\"Typography.rightGuillemet\"))\n @DeprecatedSinceKotlin(\"1.6\")\n public const val rightGuillemete: Char = '\\u00BB'\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/**\n * Represents a collection of captured groups in a single match of a regular expression.\n *\n * This collection has size of `groupCount + 1` where `groupCount` is the count of groups in the regular expression.\n * Groups are indexed from 1 to `groupCount` and group with the index 0 corresponds to the entire match.\n *\n * An element of the collection at the particular index can be `null`,\n * if the corresponding group in the regular expression is optional and\n * there was no match captured by that group.\n */\npublic interface MatchGroupCollection : Collection<MatchGroup?> {\n\n /** Returns a group with the specified [index].\n *\n * @return An instance of [MatchGroup] if the group with the specified [index] was matched or `null` otherwise.\n *\n * Groups are indexed from 1 to the count of groups in the regular expression. A group with the index 0\n * corresponds to the entire match.\n */\n public operator fun get(index: Int): MatchGroup?\n}\n\n/**\n * Extends [MatchGroupCollection] by introducing a way to get matched groups by name, when regex supports it.\n */\n@SinceKotlin(\"1.1\")\npublic interface MatchNamedGroupCollection : MatchGroupCollection {\n /**\n * Returns a named group with the specified [name].\n * @return An instance of [MatchGroup] if the group with the specified [name] was matched or `null` otherwise.\n * @throws IllegalArgumentException if there is no group with the specified [name] defined in the regex pattern.\n * @throws UnsupportedOperationException if getting named groups isn't supported on the current platform.\n */\n public operator fun get(name: String): MatchGroup?\n}\n\n/**\n * Represents the results from a single regular expression match.\n */\npublic interface MatchResult {\n /** The range of indices in the original string where match was captured. */\n public val range: IntRange\n /** The substring from the input string captured by this match. */\n public val value: String\n /**\n * A collection of groups matched by the regular expression.\n *\n * This collection has size of `groupCount + 1` where `groupCount` is the count of groups in the regular expression.\n * Groups are indexed from 1 to `groupCount` and group with the index 0 corresponds to the entire match.\n */\n public val groups: MatchGroupCollection\n /**\n * A list of matched indexed group values.\n *\n * This list has size of `groupCount + 1` where `groupCount` is the count of groups in the regular expression.\n * Groups are indexed from 1 to `groupCount` and group with the index 0 corresponds to the entire match.\n *\n * If the group in the regular expression is optional and there were no match captured by that group,\n * corresponding item in [groupValues] is an empty string.\n *\n * @sample samples.text.Regexps.matchDestructuringToGroupValues\n */\n public val groupValues: List<String>\n\n /**\n * An instance of [MatchResult.Destructured] wrapper providing components for destructuring assignment of group values.\n *\n * component1 corresponds to the value of the first group, component2 \u2014 of the second, and so on.\n *\n * @sample samples.text.Regexps.matchDestructuringToGroupValues\n */\n public val destructured: Destructured get() = Destructured(this)\n\n /** Returns a new [MatchResult] with the results for the next match, starting at the position\n * at which the last match ended (at the character after the last matched character).\n */\n public fun next(): MatchResult?\n\n /**\n * Provides components for destructuring assignment of group values.\n *\n * [component1] corresponds to the value of the first group, [component2] \u2014 of the second, and so on.\n *\n * If the group in the regular expression is optional and there were no match captured by that group,\n * corresponding component value is an empty string.\n *\n * @sample samples.text.Regexps.matchDestructuringToGroupValues\n */\n public class Destructured internal constructor(public val match: MatchResult) {\n @kotlin.internal.InlineOnly\n public operator inline fun component1(): String = match.groupValues[1]\n @kotlin.internal.InlineOnly\n public operator inline fun

```
component2(): String = match.groupValues[2]\n @kotlin.internal.InlineOnly\n public operator inline fun component3(): String = match.groupValues[3]\n @kotlin.internal.InlineOnly\n public operator inline fun component4(): String = match.groupValues[4]\n @kotlin.internal.InlineOnly\n public operator inline fun component5(): String = match.groupValues[5]\n @kotlin.internal.InlineOnly\n public operator inline fun component6(): String = match.groupValues[6]\n @kotlin.internal.InlineOnly\n public operator inline fun component7(): String = match.groupValues[7]\n @kotlin.internal.InlineOnly\n public operator inline fun component8(): String = match.groupValues[8]\n @kotlin.internal.InlineOnly\n public operator inline fun component9(): String = match.groupValues[9]\n @kotlin.internal.InlineOnly\n public operator inline fun component10(): String = match.groupValues[10]\n\n /**\n * Returns destructured group values as a list of strings.\n * First value in the returned list corresponds to the value of the first group, and so on.\n *\n * @sample samples.text.Regexps.matchDestructuringToGroupValues\n */\n public fun toList(): List<String> = match.groupValues.subList(1, match.groupValues.size)\n }\n}","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass()\n@file:kotlin.jvm.JvmName(\"DurationUnitKt\")\n\npackage kotlin.time\n\n\n/**\n * The list of possible time measurement units, in which a duration can be expressed.\n *\n * The smallest time unit is [NANOSECONDS] and the largest is [DAYS], which corresponds to exactly 24 [HOURS].\n */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalTime::class)\npublic expect enum class DurationUnit {\n /**\n * Time unit representing one nanosecond, which is 1/1000 of a microsecond.\n */\n NANOSECONDS,\n /**\n * Time unit representing one microsecond, which is 1/1000 of a millisecond.\n */\n MICROSECONDS,\n /**\n * Time unit representing one millisecond, which is 1/1000 of a second.\n */\n MILLISECONDS,\n /**\n * Time unit representing one second.\n */\n SECONDS,\n /**\n * Time unit representing one minute.\n */\n MINUTES,\n /**\n * Time unit representing one hour.\n */\n HOURS,\n /**\n * Time unit representing one day, which is always equal to 24 hours.\n */\n DAYS;\n}\n\n/** Converts the given time duration [value] expressed in the specified [sourceUnit] into the specified [targetUnit]. */\n@SinceKotlin(\"1.3\")\ninternal expect fun convertDurationUnit(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double\n\n// overflown result is unspecified\n@SinceKotlin(\"1.5\")\ninternal expect fun convertDurationUnitOverflow(value: Long, sourceUnit: DurationUnit, targetUnit: DurationUnit): Long\n\n// overflown result is coerced in the Long range boundaries\n@SinceKotlin(\"1.5\")\ninternal expect fun convertDurationUnit(value: Long, sourceUnit: DurationUnit, targetUnit: DurationUnit): Long\n\n\n@SinceKotlin(\"1.3\")\n@Suppress(\"REDUNDANT_ELSE_IN_WHEN\")\ninternal fun DurationUnit.shortName(): String = when (this) {\n DurationUnit.NANOSECONDS -> \"ns\"\n DurationUnit.MICROSECONDS -> \"us\"\n DurationUnit.MILLISECONDS -> \"ms\"\n DurationUnit.SECONDS -> \"s\"\n DurationUnit.MINUTES -> \"m\"\n DurationUnit.HOURS -> \"h\"\n DurationUnit.DAYS -> \"d\"\n else -> error(\"Unknown unit: $this\")\n}\n\n@SinceKotlin(\"1.5\")\ninternal fun durationUnitByShortName(shortName: String): DurationUnit = when (shortName) {\n \"ns\" -> DurationUnit.NANOSECONDS\n \"us\" -> DurationUnit.MICROSECONDS\n \"ms\" -> DurationUnit.MILLISECONDS\n \"s\" -> DurationUnit.SECONDS\n \"m\" -> DurationUnit.MINUTES\n \"h\" -> DurationUnit.HOURS\n \"d\" -> DurationUnit.DAYS\n else -> throw IllegalArgumentException(\"Unknown duration unit short name: $shortName\")\n}\n\n@SinceKotlin(\"1.5\")\ninternal fun durationUnitByIsoChar(isoChar: Char, isTimeComponent: Boolean): DurationUnit =\n when {\n !isTimeComponent -> {\n when (isoChar) {\n 'D' -> DurationUnit.DAYS\n else -> throw IllegalArgumentException(\"Invalid or unsupported duration ISO non-time unit: $isoChar\")\n }\n }\n else -> {\n when (isoChar) {\n 'H' -> DurationUnit.HOURS\n
```

'M' -> DurationUnit.MINUTES\n 'S' -> DurationUnit.SECONDS\n else -> throw IllegalArgumentException(\"Invalid duration ISO time unit: $isoChar\")\n }\n }\n }","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\nimport kotlin.annotation.AnnotationTarget.*\n\n/**\n * This annotation marks the experimental preview of the standard library API for measuring time and working with durations.\n *\n * > Note that this API is in a preview state and has a very high chance of being changed in the future.\n
* Do not use it if you develop a library since your library will become binary incompatible\n * with the future versions of the standard library.\n *\n * Any usage of a declaration annotated with `@ExperimentalTime` must be accepted either by\n * annotating that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalTime::class)`,\n * or by using the compiler argument `-Xopt-in=kotlin.time.ExperimentalTime`.\n */\n@Suppress(\"DEPRECATION\")\n@Experimental(level = Experimental.Level.ERROR)\n@RequiresOptIn(level = RequiresOptIn.Level.ERROR)\n@MustBeDocumented\n@Retention(AnnotationRetention.BINARY)\n@Target(\n CLASS,\n ANNOTATION_CLASS,\n PROPERTY,\n FIELD,\n LOCAL_VARIABLE,\n VALUE_PARAMETER,\n CONSTRUCTOR,\n FUNCTION,\n PROPERTY_GETTER,\n PROPERTY_SETTER,\n TYPEALIAS\n)\n@SinceKotlin(\"1.3\")\npublic annotation class ExperimentalTime\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source
code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\n/**\n * A source of time for measuring time intervals.\n *\n * The only operation provided by the time source is [markNow]. It returns a [TimeMark], which can be used to query the elapsed time later.\n *\n * @see [measureTime]\n * @see [measureTimedValue]\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic interface TimeSource {\n /**\n * Marks a point in time on this time source.\n *\n * The returned [TimeMark] instance encapsulates the captured time point and allows querying\n * the duration of time interval [elapsed][TimeMark.elapsedNow] from that point.\n */\n public fun markNow(): TimeMark\n\n /**\n * The most precise time source available in the platform.\n *\n * This time source returns its readings from a source of monotonic time when it is available in a target platform,\n * and resorts to a non-monotonic
time source otherwise.\n */\n public object Monotonic : TimeSource by MonotonicTimeSource {\n override fun toString(): String = MonotonicTimeSource.toString()\n }\n\n\n public companion object {\n\n }\n}\n\n/**\n * Represents a time point notched on a particular [TimeSource]. Remains bound to the time source it was taken from\n * and allows querying for the duration of time elapsed from that point (see the function [elapsedNow]).\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic abstract class TimeMark {\n /**\n * Returns the amount of time passed from this mark measured with the time source from which this mark was taken.\n *\n * Note that the value returned by this function can change on subsequent invocations.\n */\n public abstract fun elapsedNow(): Duration\n\n /**\n * Returns a time mark on the same time source that is ahead of this time mark by the specified [duration].\n *\n * The returned time mark is more _late_
when the [duration] is positive, and more _early_ when the [duration] is negative.\n */\n public open operator fun plus(duration: Duration): TimeMark = AdjustedTimeMark(this, duration)\n\n /**\n * Returns a time mark on the same time source that is behind this time mark by the specified [duration].\n *\n * The returned time mark is more _early_ when the [duration] is positive, and more _late_ when the [duration] is negative.\n */\n public open operator fun minus(duration: Duration): TimeMark = plus(-duration)\n\n\n /**\n * Returns true if this time mark has passed according to the time source from which this mark was taken.\n *\n * Note that the value returned by this function can change on subsequent invocations.\n * If the time source is monotonic, it can change only from `false` to `true`, namely, when the time mark becomes behind the current point of the time source.\n */\n public fun hasPassedNow(): Boolean = !elapsedNow().isNegative()\n\n
/**\n * Returns false if this time mark has not passed according to the time source from which this mark was taken.\n *\n * Note that the value returned by this function can change on subsequent invocations.\n * If the

time source is monotonic, it can change only from `true` to `false`, namely, when the time mark becomes behind the current point of the time source.\n     */\n     public fun hasNotPassedNow(): Boolean = elapsedNow().isNegative()\n}\n\n\n@ExperimentalTime\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Deprecated(\n     \"Subtracting one TimeMark from another is not a well defined operation because these time marks could have been obtained from the different time sources.\",\n     level = DeprecationLevel.ERROR\n)\n@Suppress(\"UNUSED_PARAMETER\")\npublic inline operator fun TimeMark.minus(other: TimeMark): Duration = throw Error(\"Operation is disallowed.\")\n\n@ExperimentalTime\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Deprecated(\n     \"Comparing one TimeMark to another is not a well defined operation because these time marks could have been obtained from the different time sources.\",\n     level = DeprecationLevel.ERROR\n)\n@Suppress(\"UNUSED_PARAMETER\")\npublic inline operator fun TimeMark.compareTo(other: TimeMark): Int = throw Error(\"Operation is disallowed.\")\n\n\n@ExperimentalTime\nprivate class AdjustedTimeMark(val mark: TimeMark, val adjustment: Duration) : TimeMark() {\n     override fun elapsedNow(): Duration = mark.elapsedNow() - adjustment\n\n     override fun plus(duration: Duration): TimeMark = AdjustedTimeMark(mark, adjustment + duration)\n}\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\ninternal expect object MonotonicTimeSource : TimeSource\n\n/**\n * An abstract class used to implement time sources that return their readings as [Long] values in the specified [unit].\n *\n * @property unit The unit in which this time source's readings are expressed.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic abstract class AbstractLongTimeSource(protected val unit: DurationUnit) : TimeSource {\n     /**\n      * This protected method should be overridden to return the current reading of the time source expressed as a [Long] number\n      * in the unit specified by the [unit] property.\n      */\n     protected abstract fun read(): Long\n\n     private class LongTimeMark(private val startedAt: Long, private val timeSource: AbstractLongTimeSource, private val offset: Duration) : TimeMark() {\n          override fun elapsedNow(): Duration = (timeSource.read() - startedAt).toDuration(timeSource.unit) - offset\n          override fun plus(duration: Duration): TimeMark = LongTimeMark(startedAt, timeSource, offset + duration)\n     }\n\n     override fun markNow(): TimeMark = LongTimeMark(read(), this, Duration.ZERO)\n}\n\n/**\n * An abstract class used to implement time sources that return their readings as [Double] values in the specified [unit].\n *\n * @property unit The unit in which this time source's readings are expressed.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic abstract class AbstractDoubleTimeSource(protected val unit: DurationUnit) : TimeSource {\n     /**\n      * This protected method should be overridden to return the current reading of the time source expressed as a [Double] number\n      * in the unit specified by the [unit] property.\n      */\n     protected abstract fun read(): Double\n\n     private class DoubleTimeMark(private val startedAt: Double, private val timeSource: AbstractDoubleTimeSource, private val offset: Duration) : TimeMark() {\n          override fun elapsedNow(): Duration = (timeSource.read() - startedAt).toDuration(timeSource.unit) - offset\n          override fun plus(duration: Duration): TimeMark = DoubleTimeMark(startedAt, timeSource, offset + duration)\n     }\n\n     override fun markNow(): TimeMark = DoubleTimeMark(read(), this, Duration.ZERO)\n}\n\n/**\n * A time source that has programmatically updatable readings. It is useful as a predictable source of time in tests.\n *\n * The current reading value can be advanced by the specified duration amount with the operator [plusAssign]:\n *\n * ```\n * val timeSource = TestTimeSource()\n * timeSource += 10.seconds\n * ```\n *\n * Implementation note: the current reading value is stored as a [Long] number of nanoseconds,\n * thus it's capable to represent a time range of approximately \u00b1292 years.\n * Should the reading value overflow as the result of [plusAssign] operation, an [IllegalStateException] is thrown.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic class TestTimeSource : AbstractLongTimeSource(unit = DurationUnit.NANOSECONDS) {\n     private var reading: Long = 0L\n\n

```
override fun read(): Long = reading\n\n
    /**\n     * Advances the current reading value of this time source by the specified [duration].\n     *\n     *
[duration] value is rounded down towards zero when converting it to a [Long] number of nanoseconds.\n     * For
example, if the duration being added is `0.6.nanoseconds`, the reading doesn't advance because\n     * the duration
value is rounded to zero nanoseconds.\n     *\n     * @throws IllegalStateException when the reading value
overflows as the result of this operation.\n     */\n    public operator fun plusAssign(duration: Duration) {\n        val
longDelta = duration.toLong(unit)\n        reading = if (longDelta != Long.MIN_VALUE && longDelta !=
Long.MAX_VALUE) {\n            // when delta fits in long, add it as long\n            val newReading = reading +
longDelta\n            if (reading xor longDelta >= 0 && reading xor newReading < 0) overflow(duration)\n
newReading\n        } else {\n            val delta = duration.toDouble(unit)\n
        // when delta is greater than long, add it as double\n            val newReading = reading + delta\n            if
(newReading > Long.MAX_VALUE || newReading < Long.MIN_VALUE) overflow(duration)\n
newReading.toLong()\n        }\n    }\n\n    private fun overflow(duration: Duration) {\n        throw
IllegalStateException(\"TestTimeSource will overflow if its reading ${reading}ns is advanced by $duration.\")\n
}\n}\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.time\n\nimport kotlin.contracts.*\n\n/**\n * Executes the given function [block] and returns the
duration of elapsed time interval.\n *\n * The elapsed time is measured with [TimeSource.Monotonic].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic inline fun measureTime(block: () -> Unit): Duration {\n
contract {\n
    callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n    }\n    return
TimeSource.Monotonic.measureTime(block)\n}\n\n\n/**\n * Executes the given function [block] and returns the
duration of elapsed time interval.\n *\n * The elapsed time is measured with the specified `this` [TimeSource]
instance.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic inline fun TimeSource.measureTime(block: ()
-> Unit): Duration {\n    contract {\n        callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n    }\n\n    val
mark = markNow()\n    block()\n    return mark.elapsedNow()\n}\n\n\n/**\n * Data class representing a result of
executing an action, along with the duration of elapsed time interval.\n *\n * @property value the result of the
action.\n * @property duration the time elapsed to execute the action.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic data class TimedValue<T>(val value: T, val duration:
Duration)\n\n/**\n * Executes the given function [block] and returns an instance of
 [TimedValue] class, containing both\n * the result of the function execution and the duration of elapsed time
interval.\n *\n * The elapsed time is measured with [TimeSource.Monotonic].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic inline fun <T> measureTimedValue(block: () -> T):
TimedValue<T> {\n    contract {\n        callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n    }\n\n    return
TimeSource.Monotonic.measureTimedValue(block)\n}\n\n/**\n * Executes the given [block] and returns an
instance of [TimedValue] class, containing both\n * the result of function execution and the duration of elapsed time
interval.\n *\n * The elapsed time is measured with the specified `this` [TimeSource] instance.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic inline fun <T> TimeSource.measureTimedValue(block: ()
-> T): TimedValue<T> {\n    contract {\n        callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n    }\n\n
val mark = markNow()\n    val result = block()\n    return TimedValue(result,
 mark.elapsedNow())\n}\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport kotlin.coroutines.*\nimport
kotlin.coroutines.intrinsics.*\nimport kotlin.native.concurrent.SharedImmutable\n\n/**\n * Defines deep recursive
function that keeps its stack on the heap,\n * which allows very deep recursive computations that do not use the
actual call stack.\n * To initiate a call to this deep recursive function use its [invoke] function.\n * As a rule of
thumb, it should be used if recursion goes deeper than a thousand calls.\n *\n * The [DeepRecursiveFunction] takes
one parameter of type [T] and returns a result of type [R].\n * The [block] of code defines the body of a recursive
```

function. In this block\n * [callRecursive][DeepRecursiveScope.callRecursive] function can be used to make a recursive
call\n * to the declared function. Other instances of [DeepRecursiveFunction] can be called\n * in this scope with `callRecursive` extension, too.\n *\n * For example, take a look at the following recursive tree class and a deeply\n * recursive instance of this tree with 100K nodes:\n *\n * ```\n * class Tree(val left: Tree? = null, val right: Tree? = null)\n * val deepTree = generateSequence(Tree()) { Tree(it) }.take(100_000).last()\n * ```\n *\n * A regular recursive function can be defined to compute a depth of a tree:\n *\n * ```\n * fun depth(t: Tree?): Int =\n *  if (t == null) 0 else max(depth(t.left), depth(t.right)) + 1\n * println(depth(deepTree)) // StackOverflowError\n * ```\n *\n * If this `depth` function is called for a `deepTree` it produces [StackOverflowError] because of deep recursion.\n * However, the `depth` function can be rewritten using `DeepRecursiveFunction` in the following way, and then\n * it successfully computes [`depth(deepTree)`][DeepRecursiveFunction.invoke]
expression:\n *\n * ```\n * val depth = DeepRecursiveFunction<Tree?, Int> { t ->\n *  if (t == null) 0 else max(callRecursive(t.left), callRecursive(t.right)) + 1\n * }\n * println(depth(deepTree)) // Ok\n * ```\n *\n * Deep recursive functions can also mutually call each other using a heap for the stack via\n * [callRecursive][DeepRecursiveScope.callRecursive] extension. For example, the\n * following pair of mutually recursive functions computes the number of tree nodes at even depth in the tree.\n *\n * ```\n * val mutualRecursion = object {\n *  val even: DeepRecursiveFunction<Tree?, Int> = DeepRecursiveFunction { t ->\n *  if (t == null) 0 else odd.callRecursive(t.left) + odd.callRecursive(t.right) + 1\n *  }\n *  val odd: DeepRecursiveFunction<Tree?, Int> = DeepRecursiveFunction { t ->\n *  if (t == null) 0 else even.callRecursive(t.left) + even.callRecursive(t.right)\n *  }\n * }\n * ```\n *\n * @param [T] the function parameter type.\n
 * @param [R] the function result type.\n * @param block the function body.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalStdlibApi\npublic class DeepRecursiveFunction<T, R>(\n  internal val block: suspend DeepRecursiveScope<T, R>.(T) -> R\n)\n\n/**\n * Initiates a call to this deep recursive function, forming a root of the call tree.\n *\n * This operator should not be used from inside of [DeepRecursiveScope] as it uses the call stack slot for\n * initial recursive invocation. From inside of [DeepRecursiveScope] use\n * [callRecursive][DeepRecursiveScope.callRecursive].\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalStdlibApi\npublic operator fun <T, R> DeepRecursiveFunction<T, R>.invoke(value: T): R =\n  DeepRecursiveScopeImpl<T, R>(block, value).runCallLoop()\n\n/**\n * A scope class for [DeepRecursiveFunction] function declaration that defines [callRecursive] methods to\n * recursively call this function or another [DeepRecursiveFunction] putting the call activation frame on the heap.\n
 *\n * @param [T] function parameter type.\n * @param [R] function result type.\n */\n@RestrictsSuspension\n@SinceKotlin(\"1.4\")\n@ExperimentalStdlibApi\npublic sealed class DeepRecursiveScope<T, R> {\n  /**\n  * Makes recursive call to this [DeepRecursiveFunction] function putting the call activation frame on the heap,\n  * as opposed to the actual call stack that is used by a regular recursive call.\n  */\n  public abstract suspend fun callRecursive(value: T): R\n\n  /**\n  * Makes call to the specified [DeepRecursiveFunction] function putting the call activation frame on the heap,\n  * as opposed to the actual call stack that is used by a regular call.\n  */\n  public abstract suspend fun <U, S> DeepRecursiveFunction<U, S>.callRecursive(value: U): S\n\n  @Deprecated(\n  level = DeprecationLevel.ERROR,\n  message =\n  \"'invoke' should not be called from DeepRecursiveScope. \" +\n  \"Use 'callRecursive' to do recursion in the heap instead of the call stack.\",\n  replaceWith = ReplaceWith(\"this.callRecursive(value)\")\n  )\n  @Suppress(\"UNUSED_PARAMETER\")\n  public operator fun DeepRecursiveFunction<*, *>.invoke(value: Any?): Nothing =\n  throw UnsupportedOperationException(\"Should not be called from DeepRecursiveScope\")\n}\n\n// ================== Implementation ==================\n\n@ExperimentalStdlibApi\nprivate typealias DeepRecursiveFunctionBlock = suspend DeepRecursiveScope<*, *>.(Any?) -> Any?\n\n@SharedImmutable\nprivate val UNDEFINED_RESULT = Result.success(COROUTINE_SUSPENDED)\n\n@Suppress(\"UNCHECKED_CAST\")\n@ExperimentalStdlibApi\nprivate class DeepRecursiveScopeImpl<T, R>(\n  block: suspend DeepRecursiveScope<T, R>.(T) -> R,\n

value: T\n) : DeepRecursiveScope<T, R>(), Continuation<R> {\n    // Active function block\n    private var function: DeepRecursiveFunctionBlock = block as DeepRecursiveFunctionBlock\n\n    // Value to call function with\n    private var value:
Any? = value\n\n    // Continuation of the current call\n    private var cont: Continuation<Any?>? = this as Continuation<Any?>\n\n    // Completion result (completion of the whole call stack)\n    private var result: Result<Any?> = UNDEFINED_RESULT\n\n    override val context: CoroutineContext\n        get() = EmptyCoroutineContext\n\n    override fun resumeWith(result: Result<R>) {\n        this.cont = null\n        this.result = result\n    }\n\n    override suspend fun callRecursive(value: T): R = suspendCoroutineUninterceptedOrReturn { cont ->\n        // calling the same function that is currently active\n        this.cont = cont as Continuation<Any?>\n
this.value = value\n        COROUTINE_SUSPENDED\n    }\n\n    override suspend fun <U, S> DeepRecursiveFunction<U, S>.callRecursive(value: U): S = suspendCoroutineUninterceptedOrReturn { cont ->\n
// calling another recursive function\n        val function = block as DeepRecursiveFunctionBlock\n
with(this@DeepRecursiveScopeImpl)
{\n            val currentFunction = this.function\n            if (function !== currentFunction) {\n                // calling a different function -- create a trampoline to restore function ref\n                this.function = function\n
this.cont = crossFunctionCompletion(currentFunction, cont as Continuation<Any?>)\n            } else {\n                // calling the same function -- direct\n                this.cont = cont as Continuation<Any?>\n            }\n            this.value = value\n        }\n        COROUTINE_SUSPENDED\n    }\n\n    private fun crossFunctionCompletion(\n
currentFunction: DeepRecursiveFunctionBlock,\n        cont: Continuation<Any?>\n    ): Continuation<Any?> = Continuation(EmptyCoroutineContext) {\n        this.function = currentFunction\n        // When going back from a trampoline we cannot just call cont.resume (stack usage!)\n        // We delegate the cont.resumeWith(it) call to runCallLoop\n
this.cont = cont\n        this.result = it\n    }\n\n    @Suppress(\"UNCHECKED_CAST\")\n    fun runCallLoop(): R {\n        while (true) {\n            // Note: cont is set to null in DeepRecursiveScopeImpl.resumeWith when the whole computation completes\n            val result = this.result\n            val cont = this.cont\n                ?: return (result as Result<R>).getOrThrow() // done -- final result\n            // The order of comparison is important here for that case of rogue class with broken equals\n            if (UNDEFINED_RESULT == result) {\n                // call \"function\" with \"value\" using \"cont\" as completion\n                val r = try {\n                    // This is block.startCoroutine(this, value, cont)\n                    function.startCoroutineUninterceptedOrReturn(this, value, cont)\n                } catch (e: Throwable) {\n                    cont.resumeWithException(e)\n                    continue\n                }\n                // If the function returns without suspension -- calls its continuation immediately\n                if (r !== COROUTINE_SUSPENDED)\n                    cont.resume(r as R)\n            } else {\n                // we returned from a crossFunctionCompletion trampoline -- call resume here\n                this.result = UNDEFINED_RESULT // reset result back\n                cont.resumeWith(result)\n            }\n        }\n    }\n}\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\n@file:kotlin.jvm.JvmName(\"NumbersKt\")\n@file:kotlin.jvm.JvmMultifileClass\npackage kotlin\n\nimport kotlin.math.sign\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity. */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.floorDiv(other:
Byte): Int = \n    this.toInt().floorDiv(other.toInt())\n\n/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.mod(other: Byte): Byte = \n    this.toInt().mod(other.toInt()).toByte()\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity. */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.floorDiv(other: Short): Int = \n    this.toInt().floorDiv(other.toInt())\n\n/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the

absolute value of the divisor.\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.mod(other: Short): Short = \n this.toInt().mod(other.toInt()).toShort()\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity. */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.floorDiv(other: Int): Int = \n this.toInt().floorDiv(other)\n\n/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.mod(other: Int): Int = \n this.toInt().mod(other)\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity. */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.floorDiv(other: Long): Long = \n this.toLong().floorDiv(other)\n\n/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.mod(other: Long): Long = \n this.toLong().mod(other)\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity. */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Short.floorDiv(other: Byte): Int = \n this.toInt().floorDiv(other.toInt())\n\n/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Short.mod(other: Byte): Byte = \n this.toInt().mod(other.toInt()).toByte()\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity. */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Short.floorDiv(other: Short): Int = \n this.toInt().floorDiv(other.toInt())\n\n/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Short.mod(other: Short): Short = \n this.toInt().mod(other.toInt()).toShort()\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity. */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Short.floorDiv(other: Int): Int = \n this.toInt().floorDiv(other)\n\n/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Short.mod(other: Int): Int = \n this.toInt().mod(other)\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity. */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Short.floorDiv(other: Long): Long = \n this.toLong().floorDiv(other)\n\n/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Short.mod(other: Long): Long = \n this.toLong().mod(other)\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity. */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Int.floorDiv(other: Byte): Int = \n this.floorDiv(other.toInt())\n\n/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Int.mod(other: Byte): Byte = \n this.mod(other.toInt()).toByte()\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity. */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Int.floorDiv(other: Short): Int = \n this.floorDiv(other.toInt())\n\n/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is either zero

or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Int.mod(other: Short): Short = \n this.mod(other.toInt()).toShort()\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity. */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Int.floorDiv(other: Int): Int {\n var q = this / other\n if (this xor other < 0 && q * other != this) q-- \n return q\n}\n\n/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Int.mod(other: Int): Int {\n val r = this % other\n return r + (other and (((r xor other) and (r or -r))
shr 31))\n}\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity. */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Int.floorDiv(other: Long): Long = \n this.toLong().floorDiv(other)\n\n/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Int.mod(other: Long): Long = \n this.toLong().mod(other)\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.
*/\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Long.floorDiv(other: Byte): Long = \n this.floorDiv(other.toLong())\n\n/**\n * Calculates the remainder of flooring division of this value by the other value.\n
* \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Long.mod(other: Byte): Byte = \n this.mod(other.toLong()).toByte()\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity. */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Long.floorDiv(other: Short): Long = \n this.floorDiv(other.toLong())\n\n/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n
*/\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Long.mod(other: Short): Short = \n this.mod(other.toLong()).toShort()\n\n/** Divides this value by the other value, flooring the
result to an integer that is closer to negative infinity.
*/\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Long.floorDiv(other: Int): Long = \n this.floorDiv(other.toLong())\n\n/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Long.mod(other: Int): Int = \n this.mod(other.toLong()).toInt()\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.
*/\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Long.floorDiv(other: Long): Long {\n var q = this / other\n if (this xor other < 0 && q * other != this) q-- \n return q\n}\n\n/**\n * Calculates the remainder of flooring division of this value by the other value.\n *
\n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Long.mod(other: Long): Long {\n val r = this % other\n return r + (other and (((r xor other) and (r or -r)) shr 63))\n}\n\n/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n * \n * If the result cannot be represented exactly, it is rounded to the nearest representable number. In this case the absolute value of the result can be less than or _equal to_ the absolute value of the divisor.\n
*/\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Float.mod(other: Float): Float {\n val r = this % other\n return if (r != 0.0.toFloat() && r.sign != other.sign) r + other

```
 else r\n}\n\n/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n * \n * If the result cannot be represented exactly, it is rounded to the nearest representable number. In this case the absolute value of the result can be less than or _equal to_ the absolute value of the divisor.\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Float.mod(other: Double): Double = \n this.toDouble().mod(other)\n\n/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n * \n * If the result cannot be represented exactly, it is rounded to the nearest representable number. In this case the absolute value of the result can be
 less than or _equal to_ the absolute value of the divisor.\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Double.mod(other: Float): Double = \n this.mod(other.toDouble())\n\n/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n * \n * If the result cannot be represented exactly, it is rounded to the nearest representable number. In this case the absolute value of the result can be less than or _equal to_ the absolute value of the divisor.\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Double.mod(other: Double): Double {\n    val r = this % other\n    return if (r != 0.0 && r.sign != other.sign) r + other else r\n}\n\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
 by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport kotlin.internal.InlineOnly\n\n\n/**\n * Returns a hash code value for the object or zero if the object is `null`.\n *\n * @see Any.hashCode\n */\n@SinceKotlin(\"1.3\")\n@InlineOnly\npublic inline fun Any?.hashCode(): Int = this?.hashCode() ?: 0\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\n/**\n * Represents a version of the Kotlin standard library.\n *\n * [major], [minor] and [patch] are integer components of a version,\n * they must be non-negative and not greater than 255 ([MAX_COMPONENT_VALUE]).\n *\n * @constructor Creates a version from all three components.\n */\n@SinceKotlin(\"1.1\")\npublic class KotlinVersion(val major: Int, val minor: Int, val patch: Int) : Comparable<KotlinVersion>
 {\n    /**\n     * Creates a version from [major] and [minor] components, leaving [patch] component zero.\n     */\n    public constructor(major: Int, minor: Int) : this(major, minor, 0)\n\n    private val version = versionOf(major, minor, patch)\n\n    private fun versionOf(major: Int, minor: Int, patch: Int): Int {\n        require(major in 0..MAX_COMPONENT_VALUE && minor in 0..MAX_COMPONENT_VALUE && patch in 0..MAX_COMPONENT_VALUE) {\n            \"Version components are out of range: $major.$minor.$patch\"\n        }\n        return major.shl(16) + minor.shl(8) + patch\n    }\n\n    /**\n     * Returns the string representation of this version\n     */\n    override fun toString(): String = \"$major.$minor.$patch\"\n\n    override fun equals(other: Any?): Boolean {\n        if (this === other) return true\n        val otherVersion = (other as? KotlinVersion) ?: return false\n        return this.version == otherVersion.version\n    }\n\n    override fun hashCode(): Int = version\n\n
    override fun compareTo(other: KotlinVersion): Int = version - other.version\n\n    /**\n     * Returns `true` if this version is not less than the version specified\n     * with the provided [major] and [minor] components.\n     */\n    public fun isAtLeast(major: Int, minor: Int): Boolean = // this.version >= versionOf(major, minor, 0)\n        this.major > major || (this.major == major &&\n                this.minor >= minor)\n\n    /**\n     * Returns `true` if this version is not less than the version specified\n     * with the provided [major], [minor] and [patch] components.\n     */\n    public fun isAtLeast(major: Int, minor: Int, patch: Int): Boolean = // this.version >= versionOf(major, minor, patch)\n        this.major > major || (this.major == major &&\n                (this.minor > minor || this.minor == minor &&\n                        this.patch >= patch))\n\n    companion object {\n        /**\n         * Maximum value a version component can have, a constant
```

value 255.\n */\n // NOTE: Must be placed before CURRENT because its initialization requires this field being initialized in JS\n public const val MAX_COMPONENT_VALUE = 255\n\n /**\n * Returns the current version of the Kotlin standard library.\n */\n @kotlin.jvm.JvmField\n public val CURRENT: KotlinVersion = KotlinVersionCurrentValue.get()\n }\n}\n\n// this class is ignored during classpath normalization when considering whether to recompile dependencies in Kotlin build\nprivate object KotlinVersionCurrentValue {\n @kotlin.jvm.JvmStatic\n fun get(): KotlinVersion = KotlinVersion(1, 6, 0) // value is written here automatically during build\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmName(\"LateinitKt\")\n@file:Suppress(\"unused\")\n\npackage kotlin\n\nimport kotlin.internal.InlineOnly\nimport kotlin.internal.AccessibleLateinitPropertyLiteral\nimport kotlin.reflect.KProperty0\n\n/**\n * Returns `true` if this lateinit property has been assigned a value, and `false` otherwise.\n *\n * Cannot be used in an inline function, to avoid binary compatibility issues.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\ninline val @receiver:AccessibleLateinitPropertyLiteral KProperty0<*>.isInitialized: Boolean\n get() = throw NotImplementedError(\"Implementation is intrinsic\")\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmName(\"LazyKt\")\n@file:kotlin.jvm.JvmMultifileClass\n\npackage kotlin\n\nimport kotlin.reflect.KProperty\n\n/**\n * Represents a value with lazy initialization.\n *\n * To create an instance of [Lazy] use the [lazy]
function.\n */\npublic interface Lazy<out T> {\n /**\n * Gets the lazily initialized value of the current Lazy instance.\n * Once the value was initialized it must not change during the rest of lifetime of this Lazy instance.\n */\n public val value: T\n\n /**\n * Returns `true` if a value for this Lazy instance has been already initialized, and `false` otherwise.\n * Once this function has returned `true` it stays `true` for the rest of lifetime of this Lazy instance.\n */\n public fun isInitialized(): Boolean\n}\n\n/**\n * Creates a new instance of the [Lazy] that is already initialized with the specified [value].\n */\npublic fun <T> lazyOf(value: T): Lazy<T> = InitializedLazyImpl(value)\n\n/**\n * An extension to delegate a read-only property of type [T] to an instance of [Lazy].\n *\n * This extension allows to use instances of Lazy for property delegation:\n * `val property: String by lazy { initializer }`\n */\n@kotlin.internal.InlineOnly\npublic
inline operator fun <T> Lazy<T>.getValue(thisRef: Any?, property: KProperty<*>): T = value\n\n/**\n * Specifies how a [Lazy] instance synchronizes initialization among multiple threads.\n */\npublic enum class LazyThreadSafetyMode {\n\n /**\n * Locks are used to ensure that only a single thread can initialize the [Lazy] instance.\n */\n SYNCHRONIZED,\n\n /**\n * Initializer function can be called several times on concurrent access to uninitialized [Lazy] instance value,\n * but only the first returned value will be used as the value of [Lazy] instance.\n */\n PUBLICATION,\n\n /**\n * No locks are used to synchronize an access to the [Lazy] instance value; if the instance is accessed from multiple threads, its behavior is undefined.\n *\n * This mode should not be used unless the [Lazy] instance is guaranteed never to be initialized from more than one thread.\n */\n NONE,\n}\n\n\ninternal object UNINITIALIZED_VALUE\n\n// internal
to be called from lazy in JS\ninternal class UnsafeLazyImpl<out T>(initializer: () -> T) : Lazy<T>, Serializable {\n private var initializer: (() -> T)? = initializer\n private var _value: Any? = UNINITIALIZED_VALUE\n\n override val value: T\n get() {\n if (_value === UNINITIALIZED_VALUE) {\n _value = initializer!!()\n initializer = null\n }\n @Suppress(\"UNCHECKED_CAST\")\n return _value as T\n }\n\n override fun isInitialized(): Boolean = _value !== UNINITIALIZED_VALUE\n\n override fun toString(): String = if (isInitialized()) value.toString() else \"Lazy value not initialized yet.\"\n\n private fun writeReplace(): Any = InitializedLazyImpl(value)\n}\n\ninternal class InitializedLazyImpl<out T>(override val value: T) : Lazy<T>, Serializable {\n\n override fun isInitialized(): Boolean = true\n\n override fun toString(): String = value.toString()\n\n}\n","/*\n * Copyright
2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n

*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"NumbersKt\")\npackage kotlin\n\n/**\n * Counts the number of set bits in the binary representation of this [Int] number.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Int.countOneBits(): Int\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Int] number.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Int.countLeadingZeroBits(): Int\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Int] number.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Int.countTrailingZeroBits(): Int\n\n/**\n * Returns a number having a single bit set in the position of the most significant set bit of this [Int] number,\n * or zero, if this number is zero.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Int.takeHighestOneBit(): Int\n\n/**\n * Returns a number having a single bit set in the position of the least significant set bit of this [Int] number,\n * or zero, if this number is zero.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Int.takeLowestOneBit(): Int\n\n/**\n * Rotates the binary representation of this [Int] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n *\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [Int.SIZE_BITS] (32) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 32)`\n */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Int.rotateLeft(bitCount: Int): Int\n\n\n/**\n * Rotates the binary representation of this [Int] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [Int.SIZE_BITS] (32) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 32)`\n */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Int.rotateRight(bitCount: Int): Int\n\n\n/**\n * Counts the number of set bits in the binary representation of this [Long] number.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Long.countOneBits(): Int\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Long] number.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Long.countLeadingZeroBits(): Int\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Long] number.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Long.countTrailingZeroBits(): Int\n\n/**\n * Returns a number having a single bit set in the position of the most significant set bit of this [Long] number,\n * or zero, if this number is zero.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Long.takeHighestOneBit(): Long\n\n/**\n * Returns a number having a single bit set in the position of the least significant set bit of this [Long] number,\n * or zero, if this number is zero.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Long.takeLowestOneBit(): Long\n\n/**\n * Rotates the binary representation of this [Long] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as

the least significant bits on the right side.\n *\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 64)`\n
*/\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Long.rotateLeft(bitCount: Int): Long\n\n/**\n
* Rotates the binary representation of this [Long] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 64)`\n
*/\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Long.rotateRight(bitCount: Int): Long\n\n/**\n * Counts the number of set bits in the binary representation of this [Byte] number.\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Byte.countOneBits(): Int = (toInt() and 0xFF).countOneBits()\n\n/**\n * Counts the number
of consecutive most significant bits that are zero in the binary representation of this [Byte] number.\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Byte.countLeadingZeroBits(): Int = (toInt() and 0xFF).countLeadingZeroBits() - (Int.SIZE_BITS - Byte.SIZE_BITS)\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Byte] number.\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Byte.countTrailingZeroBits(): Int = (toInt() or 0x100).countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most significant set bit of this [Byte] number,\n * or zero, if this number is zero.\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Byte.takeHighestOneBit(): Byte = (toInt()
and 0xFF).takeHighestOneBit().toByte()\n\n/**\n * Returns a number having a single bit set in the position of the least significant set bit of this [Byte] number,\n * or zero, if this number is zero.\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Byte.takeLowestOneBit(): Byte = toInt().takeLowestOneBit().toByte()\n\n\n/**\n * Rotates the binary representation of this [Byte] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n *\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [Byte.SIZE_BITS] (8) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 8)`\n
*/\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic
fun Byte.rotateLeft(bitCount: Int): Byte =\n    (toInt().shl(bitCount and 7) or (toInt() and 0xFF).ushr(8 - (bitCount and 7))).toByte()\n\n/**\n * Rotates the binary representation of this [Byte] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [Byte.SIZE_BITS] (8) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 8)`\n
*/\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun Byte.rotateRight(bitCount: Int): Byte =\n    (toInt().shl(8 - (bitCount and 7)) or (toInt() and 0xFF).ushr(bitCount and 7)).toByte()\n\n/**\n * Counts the number

of set bits in the binary representation of this [Short] number.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Short.countOneBits(): Int = (toInt() and 0xFFFF).countOneBits()\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Short] number.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Short.countLeadingZeroBits(): Int =\n    (toInt() and 0xFFFF).countLeadingZeroBits() - (Int.SIZE_BITS - Short.SIZE_BITS)\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Short] number.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Short.countTrailingZeroBits(): Int = (toInt() or 0x10000).countTrailingZeroBits()\n\n/**\n * Returns a number
having a single bit set in the position of the most significant set bit of this [Short] number,\n * or zero, if this number is zero.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Short.takeHighestOneBit(): Short = (toInt() and 0xFFFF).takeHighestOneBit().toShort()\n\n/**\n * Returns a number having a single bit set in the position of the least significant set bit of this [Short] number,\n * or zero, if this number is zero.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Short.takeLowestOneBit(): Short = toInt().takeLowestOneBit().toShort()\n\n/**\n * Rotates the binary representation of this [Short] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n *\n * Rotating the number left by a negative bit
count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [Short.SIZE_BITS] (16) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 16)`\n */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun Short.rotateLeft(bitCount: Int): Short =\n    (toInt().shl(bitCount and 15) or (toInt() and 0xFFFF).ushr(16 - (bitCount and 15))).toShort()\n\n/**\n * Rotates the binary representation of this [Short] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [Short.SIZE_BITS] (16) returns the same number, or
more generally\n * `number.rotateRight(n) == number.rotateRight(n % 16)`\n */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun Short.rotateRight(bitCount: Int): Short =\n    (toInt().shl(16 - (bitCount and 15)) or (toInt() and 0xFFFF).ushr(bitCount and 15)).toShort()\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\nimport kotlin.internal.RequireKotlin\nimport kotlin.internal.RequireKotlinVersionKind\n\n@kotlin.internal.InlineOnly\n@SinceKotlin(\"1.2\")\n@Suppress(\"INVISIBLE_MEMBER\", \"INVISIBLE_REFERENCE\")\n@RequireKotlin(\"1.2.30\", level = DeprecationLevel.HIDDEN, versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\npublic inline fun <R> suspend(noinline block: suspend () -> R): suspend () -> R = block\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmName(\"TuplesKt\")\n\npackage kotlin\n\n\n/**\n * Represents a generic pair of two values.\n *\n * There is no meaning attached to values in this class, it can be used for any purpose.\n * Pair exhibits value semantics, i.e. two pairs are equal if both components are equal.\n *\n * An example of decomposing it into values:\n * @sample samples.misc.Tuples.pairDestructuring\n

*\n * @param A type of the first value.\n * @param B type of the second value.\n * @property first First value.\n * @property second Second value.\n * @constructor Creates a new instance of Pair.\n */\npublic data class Pair<out A, out B>(\n public val first: A,\n public val second: B\n) : Serializable {\n\n /**\n * Returns string representation of the [Pair] including its [first] and [second] values.\n */\n public override fun toString(): String = \"($first, $second)\"\n}\n\n/**\n * Creates a tuple of type [Pair] from this and [that].\n *\n * This can be useful for creating [Map] literals with less noise, for example:\n * @sample samples.collections.Maps.Instantiation.mapFromPairs\n */\npublic infix fun <A, B> A.to(that: B): Pair<A, B> = Pair(this, that)\n\n/**\n * Converts this pair into a list.\n * @sample samples.misc.Tuples.pairToList\n */\npublic fun <T> Pair<T, T>.toList(): List<T> = listOf(first, second)\n\n/**\n * Represents a triad of values\n *\n * There is no meaning attached to values in this class, it can be used for any purpose.\n * Triple exhibits value semantics, i.e. two triples are equal if all three components are equal.\n * An example of decomposing it into values:\n * @sample samples.misc.Tuples.tripleDestructuring\n *\n * @param A type of the first value.\n * @param B type of the second value.\n * @param C type of the third value.\n * @property first First value.\n * @property second Second value.\n * @property third Third value.\n */\npublic data class Triple<out A, out B, out C>(\n public val first: A,\n public val second: B,\n public val third: C\n) : Serializable {\n\n /**\n * Returns string representation of the [Triple] including its [first], [second] and [third] values.\n */\n public override fun toString(): String = \"($first, $second, $third)\"\n}\n\n/**\n * Converts this triple into a list.\n * @sample samples.misc.Tuples.tripleToList\n */\npublic fun <T> Triple<T, T, T>.toList(): List<T> = listOf(first, second, third)\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin.ranges\n\n\n\nimport kotlin.internal.*\n\n/**\n * A range of values of type `UInt`.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic class UIntRange(start: UInt, endInclusive: UInt) : UIntProgression(start, endInclusive, 1), ClosedRange<UInt> {\n override val start: UInt get() = first\n override val endInclusive: UInt get() = last\n\n override fun contains(value: UInt): Boolean = first <= value && value <= last\n\n /** \n * Checks if the range is empty.\n \n * The range is empty if its start value is greater than the end value.\n */\n override fun isEmpty(): Boolean = first > last\n\n override fun equals(other: Any?): Boolean =\n other is UIntRange && (isEmpty() && other.isEmpty() ||\n first == other.first && last == other.last)\n\n override fun hashCode(): Int =\n if (isEmpty()) -1 else (31 * first.toInt() + last.toInt())\n\n override fun toString(): String = \"$first..$last\"\n\n companion object {\n /** An empty range of values of type UInt. */\n public val EMPTY: UIntRange = UIntRange(UInt.MAX_VALUE, UInt.MIN_VALUE)\n }\n}\n\n/**\n * A progression of values of type `UInt`.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic open class UIntProgression\ninternal constructor(\n start: UInt,\n endInclusive: UInt,\n step: Int\n) : Iterable<UInt> {\n init {\n if (step == 0.toInt()) throw kotlin.IllegalArgumentException(\"Step must be non-zero.\")\n if (step == Int.MIN_VALUE) throw kotlin.IllegalArgumentException(\"Step must be greater than Int.MIN_VALUE to avoid overflow on negation.\")\n }\n\n /**\n * The first element in the progression.\n */\n public val first: UInt = start\n\n /**\n * The last element in the progression.\n */\n public val last: UInt = getProgressionLastElement(start, endInclusive, step)\n\n /**\n * The step of the progression.\n */\n public val step: Int = step\n\n final override fun iterator(): Iterator<UInt> = UIntProgressionIterator(first, last, step)\n\n /** \n * Checks if the progression is empty.\n \n * Progression with a positive step is empty if its first element is greater than the last element.\n * Progression with a negative step is empty if its first element is less than the last element.\n */\n public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last\n\n override fun equals(other: Any?): Boolean =\n other is UIntProgression && (isEmpty() && other.isEmpty() ||\n first == other.first && last == other.last && step == other.step)\n\n override fun hashCode(): Int =\n if (isEmpty()) -1 else (31 * (31 * first.toInt() + last.toInt()) + step.toInt())\n\n override fun toString(): String = if (step > 0) \"$first..$last step $step\" else \"$first downTo $last step ${-step}\"\n\n companion

object {\n /**\n * Creates UIntProgression within the specified bounds of a closed range.\n\n * The progression starts with the
[rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\n * In order to go backwards the [step] must be negative.\n *\n * [step] must be greater than `Int.MIN_VALUE` and not equal to zero.\n */\n public fun fromClosedRange(rangeStart: UInt, rangeEnd: UInt, step: Int): UIntProgression = UIntProgression(rangeStart, rangeEnd, step)\n }\n}\n\n\n/**\n * An iterator over a progression of values of type `UInt`.\n * @property step the number by which the value is incremented on each step.\n */\n@SinceKotlin(\"1.3\")\n@Suppress(\"DEPRECATION_ERROR\")\nprivate class UIntProgressionIterator(first: UInt, last: UInt, step: Int) : UIntIterator() {\n private val finalElement = last\n private var hasNext: Boolean = if (step > 0) first <= last else first >= last\n private val step = step.toUInt() // use 2-complement math for negative steps\n private var next = if (hasNext) first else finalElement\n\n override
fun hasNext(): Boolean = hasNext\n\n override fun nextUInt(): UInt {\n val value = next\n if (value == finalElement) {\n if (!hasNext) throw kotlin.NoSuchElementException()\n hasNext = false\n } else {\n next += step\n }\n return value\n }\n}\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin.collections\n\n/** An iterator over a sequence of values of type `UByte`. */\n@Deprecated(\"This class is not going to be stabilized and is to be removed soon.\", level = DeprecationLevel.ERROR)\n@SinceKotlin(\"1.3\")\npublic abstract class UByteIterator : Iterator<UByte> {\n final override fun next() = nextUByte()\n\n /** Returns the next value in the sequence without boxing. */\n public
abstract fun nextUByte(): UByte\n}\n\n/** An iterator over a sequence of values of type `UShort`. */\n@Deprecated(\"This class is not going to be stabilized and is to be removed soon.\", level = DeprecationLevel.ERROR)\n@SinceKotlin(\"1.3\")\npublic abstract class UShortIterator : Iterator<UShort> {\n final override fun next() = nextUShort()\n\n /** Returns the next value in the sequence without boxing. */\n public abstract fun nextUShort(): UShort\n}\n\n/** An iterator over a sequence of values of type `UInt`. */\n@Deprecated(\"This class is not going to be stabilized and is to be removed soon.\", level = DeprecationLevel.ERROR)\n@SinceKotlin(\"1.3\")\npublic abstract class UIntIterator : Iterator<UInt> {\n final override fun next() = nextUInt()\n\n /** Returns the next value in the sequence without boxing. */\n public abstract fun nextUInt(): UInt\n}\n\n/** An iterator over a sequence of values of type `ULong`. */\n@Deprecated(\"This class is not going to be stabilized
and is to be removed soon.\", level = DeprecationLevel.ERROR)\n@SinceKotlin(\"1.3\")\npublic abstract class ULongIterator : Iterator<ULong> {\n final override fun next() = nextULong()\n\n /** Returns the next value in the sequence without boxing. */\n public abstract fun nextULong(): ULong\n}\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin.ranges\n\n\n\nimport kotlin.internal.*\n\n/**\n * A range of values of type `ULong`.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic class ULongRange(start: ULong, endInclusive: ULong) : ULongProgression(start, endInclusive, 1), ClosedRange<ULong> {\n override val start: ULong get() = first\n override val endInclusive: ULong get() = last\n\n override fun contains(value:
ULong): Boolean = first <= value && value <= last\n\n /** \n * Checks if the range is empty.\n \n * The range is empty if its start value is greater than the end value.\n */\n override fun isEmpty(): Boolean = first > last\n\n override fun equals(other: Any?): Boolean =\n other is ULongRange && (isEmpty() && other.isEmpty() ||\n first == other.first && last == other.last)\n\n override fun hashCode(): Int =\n if (isEmpty()) -1 else (31 * (first xor (first shr 32)).toInt() + (last xor (last shr 32)).toInt())\n\n override fun toString(): String = \"$first..$last\"\n\n companion object {\n /** An empty range of values of type ULong. */\n public val EMPTY: ULongRange = ULongRange(ULong.MAX_VALUE, ULong.MIN_VALUE)\n

```
}\n}\n\n/**\n * A progression of values of type `ULong`.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic open class
ULongProgression\ninternal constructor(\n
    start: ULong,\n    endInclusive: ULong,\n    step: Long\n) : Iterable<ULong> {\n    init {\n        if (step ==
0.toLong()) throw kotlin.IllegalArgumentException(\"Step must be non-zero.\")\n        if (step ==
Long.MIN_VALUE) throw kotlin.IllegalArgumentException(\"Step must be greater than Long.MIN_VALUE to
avoid overflow on negation.\")\n    }\n\n    /**\n     * The first element in the progression.\n     */\n    public val first:
ULong = start\n\n    /**\n     * The last element in the progression.\n     */\n    public val last: ULong =
getProgressionLastElement(start, endInclusive, step)\n\n    /**\n     * The step of the progression.\n     */\n    public
val step: Long = step\n\n    final override fun iterator(): Iterator<ULong> = ULongProgressionIterator(first, last,
step)\n\n    /** \n     * Checks if the progression is empty.\n     \n     * Progression with a positive step is empty if its
first element is greater than the last element.\n     * Progression with a negative
 step is empty if its first element is less than the last element.\n     */\n    public open fun isEmpty(): Boolean = if
(step > 0) first > last else first < last\n\n    override fun equals(other: Any?): Boolean =\n        other is
ULongProgression && (isEmpty() && other.isEmpty() ||\n                first == other.first && last == other.last &&
step == other.step)\n\n    override fun hashCode(): Int =\n        if (isEmpty()) -1 else (31 * (31 * (first xor (first shr
32)).toInt() + (last xor (last shr 32)).toInt()) + (step xor (step ushr 32)).toInt())\n\n    override fun toString(): String =
if (step > 0) \"$first..$last step $step\" else \"$first downTo $last step ${-step}\"\n\n    companion object {\n
/**\n         * Creates ULongProgression within the specified bounds of a closed range.\n\n         * The progression
starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\n
     * In order to go backwards the [step]
 must be negative.\n         *\n         * [step] must be greater than `Long.MIN_VALUE` and not equal to zero.\n
*/\n        public fun fromClosedRange(rangeStart: ULong, rangeEnd: ULong, step: Long): ULongProgression =
ULongProgression(rangeStart, rangeEnd, step)\n    }\n}\n\n\n/**\n * An iterator over a progression of values of type
`ULong`.\n * @property step the number by which the value is incremented on each step.\n
*/\n@SinceKotlin(\"1.3\")\n@Suppress(\"DEPRECATION_ERROR\")\nprivate class
ULongProgressionIterator(first: ULong, last: ULong, step: Long) : ULongIterator() {\n    private val finalElement =
last\n    private var hasNext: Boolean = if (step > 0) first <= last else first >= last\n    private val step =
step.toULong() // use 2-complement math for negative steps\n    private var next = if (hasNext) first else
finalElement\n\n    override fun hasNext(): Boolean = hasNext\n\n    override fun nextULong(): ULong {\n        val
value = next\n        if (value == finalElement)
 {\n            if (!hasNext) throw kotlin.NoSuchElementException()\n            hasNext = false\n        } else {\n
next += step\n        }\n        return value\n    }\n}\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\npackage kotlin.math\n\n/**\n * Returns the smaller of two values.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\
npublic inline fun min(a: UInt, b: UInt): UInt {\n    return minOf(a, b)\n}\n\n/**\n * Returns the smaller of two
values.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\
npublic inline fun min(a: ULong, b: ULong): ULong {\n    return minOf(a, b)\n}\n\n/**\n * Returns the greater of
two values.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\
npublic
 inline fun max(a: UInt, b: UInt): UInt {\n    return maxOf(a, b)\n}\n\n/**\n * Returns the greater of two values.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\
npublic inline fun max(a: ULong, b: ULong): ULong {\n    return maxOf(a, b)\n}","/*\n * Copyright 2010-2021
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
```

*/\n\n@file:kotlin.jvm.JvmName(\"UNumbersKt\")\npackage kotlin\n\n/**\n * Counts the number of set bits in the binary representation of this [UInt] number.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UInt.countOneBits(): Int = toInt().countOneBits()\n\n/**\n * Counts the number of consecutive most significant
bits that are zero in the binary representation of this [UInt] number.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UInt.countLeadingZeroBits(): Int = toInt().countLeadingZeroBits()\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [UInt] number.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UInt.countTrailingZeroBits(): Int = toInt().countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most significant set bit of this [UInt] number,\n * or zero, if this number is zero.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UInt.takeHighestOneBit():
UInt = toInt().takeHighestOneBit().toUInt()\n\n/**\n * Returns a number having a single bit set in the position of the least significant set bit of this [UInt] number,\n * or zero, if this number is zero.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UInt.takeLowestOneBit(): UInt = toInt().takeLowestOneBit().toUInt()\n\n/**\n * Rotates the binary representation of this [UInt] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n *\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [UInt.SIZE_BITS] (32) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 32)`\n
*/\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class, ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UInt.rotateLeft(bitCount: Int): UInt = toInt().rotateLeft(bitCount).toUInt()\n\n\n/**\n * Rotates the binary representation of this [UInt] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [UInt.SIZE_BITS] (32) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 32)`\n
*/\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class, ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UInt.rotateRight(bitCount: Int): UInt
= toInt().rotateRight(bitCount).toUInt()\n\n\n/**\n * Counts the number of set bits in the binary representation of this [ULong] number.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULong.countOneBits(): Int = toLong().countOneBits()\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [ULong] number.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULong.countLeadingZeroBits(): Int = toLong().countLeadingZeroBits()\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [ULong] number.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun

ULong.countTrailingZeroBits(): Int = toLong().countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most significant set bit of this [ULong] number,\n * or zero, if this number is zero.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULong.takeHighestOneBit(): ULong = toLong().takeHighestOneBit().toULong()\n\n/**\n * Returns a number having a single bit set in the position of the least significant set bit of this [ULong] number,\n * or zero, if this number is zero.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULong.takeLowestOneBit(): ULong = toLong().takeLowestOneBit().toULong()\n\n/**\n * Rotates the binary representation of this [ULong] number left by the specified [bitCount] number of bits.\n * The most significant bits
pushed out from the left side reenter the number as the least significant bits on the right side.\n *\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [ULong.SIZE_BITS] (64) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 64)`\n */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class, ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULong.rotateLeft(bitCount: Int): ULong = toLong().rotateLeft(bitCount).toULong()\n\n/**\n * Rotates the binary representation of this [ULong] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is the same as rotating it left
by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [ULong.SIZE_BITS] (64) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 64)`\n */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class, ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULong.rotateRight(bitCount: Int): ULong = toLong().rotateRight(bitCount).toULong()\n\n/**\n * Counts the number of set bits in the binary representation of this [UByte] number.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByte.countOneBits(): Int = toUInt().countOneBits()\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [UByte] number.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun UByte.countLeadingZeroBits(): Int = toByte().countLeadingZeroBits()\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [UByte] number.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByte.countTrailingZeroBits(): Int = toByte().countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most significant set bit of this [UByte] number,\n * or zero, if this number is zero.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByte.takeHighestOneBit(): UByte = toInt().takeHighestOneBit().toUByte()\n\n/**\n * Returns a number having a single bit set in the position of the least significant set bit of
this [UByte] number,\n * or zero, if this number is zero.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByte.takeLowestOneBit(): UByte = toInt().takeLowestOneBit().toUByte()\n\n/**\n * Rotates the binary representation of this [UByte] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n *\n * Rotating the number left by a negative bit count is the

same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [UByte.SIZE_BITS] (8) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 8)`\n */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class, ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByte.rotateLeft(bitCount: Int): UByte = toByte().rotateLeft(bitCount).toUByte()\n\n/**\n * Rotates the binary representation of this [UByte] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [UByte.SIZE_BITS] (8) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 8)`\n */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class, ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByte.rotateRight(bitCount: Int): UByte = toByte().rotateRight(bitCount).toUByte()\n\n/**\n * Counts the number of set bits in the binary representation of this [UShort] number.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.countOneBits(): Int = toUInt().countOneBits()\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [UShort] number.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.countLeadingZeroBits(): Int = toShort().countLeadingZeroBits()\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [UShort] number.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.countTrailingZeroBits(): Int = toShort().countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most significant set bit of this [UShort] number,\n * or zero, if this number is zero.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.takeHighestOneBit(): UShort = toInt().takeHighestOneBit().toUShort()\n\n/**\n * Returns a number having a single bit set in the position of the least significant set bit of this [UShort] number,\n * or zero, if this number is zero.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.takeLowestOneBit(): UShort = toInt().takeLowestOneBit().toUShort()\n\n/**\n * Rotates the binary representation of this [UShort] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n *\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [UShort.SIZE_BITS] (16) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 16)`\n */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class, ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.rotateLeft(bitCount: Int): UShort = toShort().rotateLeft(bitCount).toUShort()\n\n/**\n * Rotates the binary representation of this [UShort] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [UShort.SIZE_BITS] (16) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 16)`\n */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class,

ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.rotateRight(bitCount: Int): UShort = toShort().rotateRight(bitCount).toUShort()\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.internal\n\n// (a - b) mod c\nprivate fun differenceModulo(a: UInt, b: UInt, c: UInt): UInt {\n    val ac = a % c\n    val bc = b % c\n    return if (ac >= bc) ac - bc else ac - bc + c\n}\n\nprivate fun differenceModulo(a: ULong, b: ULong, c: ULong): ULong {\n    val ac = a % c\n    val bc = b % c\n    return if (ac >= bc) ac - bc else ac - bc + c\n}\n\n/**\n * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in the range\n * from [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative\n * [step].\n *\n * No validation on passed parameters is performed. The given parameters should satisfy the condition:\n *\n * - either `step > 0` and `start <= end`,\n * - or `step < 0` and `start >= end`.\n *\n * @param start first element of the progression\n * @param end ending bound for the progression\n * @param step increment, or difference of successive elements in the progression\n * @return the final element of the progression\n * @suppress\n */\n@PublishedApi\n@SinceKotlin(\"1.3\")\ninternal fun getProgressionLastElement(start: UInt, end: UInt, step: Int): UInt = when {\n    step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step.toUInt())\n    step < 0 -> if (start <= end) end else end + differenceModulo(start, end, (-step).toUInt())\n    else -> throw kotlin.IllegalArgumentException(\"Step is zero.\")\n}\n\n/**\n * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in the range\n * from [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative\n * [step].\n *\n * No validation on passed parameters is performed. The given parameters should satisfy the condition:\n *\n * - either `step > 0` and `start <= end`,\n * - or `step < 0` and `start >= end`.\n *\n * @param start first element of the progression\n * @param end ending bound for the progression\n * @param step increment, or difference of successive elements in the progression\n * @return the final element of the progression\n * @suppress\n */\n@PublishedApi\n@SinceKotlin(\"1.3\")\ninternal fun getProgressionLastElement(start: ULong, end: ULong, step: Long): ULong = when {\n    step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step.toULong())\n    step < 0 -> if (start <= end) end else end + differenceModulo(start, end, (-step).toULong())\n    else -> throw kotlin.IllegalArgumentException(\"Step is zero.\")\n}\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmName(\"UStringsKt\")  // string representation of unsigned numbers\n\npackage kotlin.text\n\n/**\n * Returns a string representation of this [Byte] value in the specified [radix].\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n//@kotlin.internal.InlineOnly\npublic /*inline*/ fun UByte.toString(radix: Int): String = this.toInt().toString(radix)\n\n/**\n * Returns a string representation of this [Short] value in the specified [radix].\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n//@kotlin.internal.InlineOnly\npublic /*inline*/ fun UShort.toString(radix: Int): String = this.toInt().toString(radix)\n\n/**\n * Returns a string representation of this [Int] value in the specified [radix].\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n//@kotlin.internal.InlineOnly\npublic /*inline*/ fun UInt.toString(radix: Int): String = this.toLong().toString(radix)\n\n/**\n * Returns a string representation of this [Long] value in the specified [radix].\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun ULong.toString(radix: Int): String

= ulongToString(this.toLong(), checkRadix(radix))\n\n\n/**\n * Parses the string as a signed [UByte] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toUByte(): UByte = toUByteOrNull() ?: numberFormatError(this)\n\n/**\n * Parses the string as a signed [UByte] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toUByte(radix: Int): UByte = toUByteOrNull(radix) ?: numberFormatError(this)\n\n/**\n * Parses the string as a [UShort] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a
number.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toUShort(): UShort = toUShortOrNull() ?: numberFormatError(this)\n\n/**\n * Parses the string as a [UShort] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toUShort(radix: Int): UShort = toUShortOrNull(radix) ?: numberFormatError(this)\n\n/**\n * Parses the string as an [UInt] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toUInt(): UInt = toUIntOrNull() ?: numberFormatError(this)\n\n/**\n * Parses the string as an [UInt] number and returns
the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toUInt(radix: Int): UInt = toUIntOrNull(radix) ?: numberFormatError(this)\n\n/**\n * Parses the string as a [ULong] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toULong(): ULong = toULongOrNull() ?: numberFormatError(this)\n\n/**\n * Parses the string as a [ULong] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic
fun String.toULong(radix: Int): ULong = toULongOrNull(radix) ?: numberFormatError(this)\n\n\n\n\n\n/**\n * Parses the string as an [UByte] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toUByteOrNull(): UByte? = toUByteOrNull(radix = 10)\n\n/**\n * Parses the string as an [UByte] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toUByteOrNull(radix: Int): UByte? {\n    val int = this.toUIntOrNull(radix) ?: return null\n    if (int > UByte.MAX_VALUE) return null\n    return int.toUByte()\n}\n\n/**\n * Parses the string as
an [UShort] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toUShortOrNull(): UShort? = toUShortOrNull(radix = 10)\n\n/**\n * Parses the string as an [UShort] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toUShortOrNull(radix: Int): UShort? {\n    val int = this.toUIntOrNull(radix) ?: return null\n    if (int > UShort.MAX_VALUE) return null\n    return int.toUShort()\n}\n\n/**\n * Parses the string as an [UInt] number and

```
returns the result\n * or `null` if the string is not a valid representation of a number.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toUIntOrNull(): UInt? = toUIntOrNull(radix = 10)\n\n/**\n * Parses the string as an [UInt] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toUIntOrNull(radix: Int): UInt? {\n    checkRadix(radix)\n\n    val length = this.length\n    if (length == 0) return null\n\n    val limit: UInt = UInt.MAX_VALUE\n    val start: Int\n\n    val firstChar = this[0]\n    if (firstChar < '0') {\n        if (length == 1 || firstChar != '+') return null\n        start = 1\n    } else {\n        start = 0\n    }\n\n    val limitForMaxRadix = 119304647u  //  limit / 36\n\n    var limitBeforeMul = limitForMaxRadix\n    val uradix = radix.toUInt()\n    var result = 0u\n    for (i in start until length) {\n        val digit = digitOf(this[i], radix)\n\n        if (digit < 0) return null\n        if (result > limitBeforeMul) {\n            if (limitBeforeMul == limitForMaxRadix) {\n                limitBeforeMul = limit / uradix\n\n                if (result > limitBeforeMul) {\n                    return null\n                }\n            } else {\n                return null\n            }\n        }\n\n        result *= uradix\n\n        val beforeAdding = result\n        result += digit.toUInt()\n        if (result < beforeAdding) return null // overflow has happened\n    }\n\n    return result\n}\n\n/**\n * Parses the string as an [ULong] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toULongOrNull(): ULong? = toULongOrNull(radix = 10)\n\n/**\n * Parses the string as an [ULong] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toULongOrNull(radix: Int): ULong? {\n    checkRadix(radix)\n\n    val length = this.length\n    if (length == 0) return null\n\n    val limit: ULong = ULong.MAX_VALUE\n    val start: Int\n\n    val firstChar = this[0]\n    if (firstChar < '0') {\n        if (length == 1 || firstChar != '+') return null\n        start = 1\n    } else {\n        start = 0\n    }\n\n\n    val limitForMaxRadix = 512409557603043100uL  //  limit / 36\n\n    var limitBeforeMul = limitForMaxRadix\n    val uradix = radix.toULong()\n    var result = 0uL\n    for (i in start until length) {\n        val digit = digitOf(this[i], radix)\n\n        if (digit < 0) return null\n        if (result > limitBeforeMul) {\n            if (limitBeforeMul == limitForMaxRadix) {\n                limitBeforeMul = limit / uradix\n\n                if (result > limitBeforeMul) {\n                    return null\n                }\n            } else {\n                return null\n            }\n        }\n\n        result *= uradix\n\n        val beforeAdding = result\n        result += digit.toUInt()\n        if (result < beforeAdding) return null // overflow has happened\n    }\n\n    return result\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\npackage kotlin\n\nimport kotlin.annotation.AnnotationTarget.*\nimport kotlin.internal.RequireKotlin\nimport kotlin.internal.RequireKotlinVersionKind\n\n/**\n * Marks the API that is dependent on the experimental unsigned types, including those types themselves.\n *\n * Usages of such API will be reported as warnings unless an explicit opt-in with\n * the [OptIn] annotation, e.g. `@OptIn(ExperimentalUnsignedTypes::class)`,\n * or with the `-Xopt-in=kotlin.ExperimentalUnsignedTypes` compiler option is given.\n *\n * It's recommended to propagate the experimental status to the API that depends on unsigned types by annotating it with this annotation.\n */\n@Suppress(\"DEPRECATION\")\n@Experimental(level = Experimental.Level.WARNING)\n@RequiresOptIn(level = RequiresOptIn.Level.WARNING)\n@MustBeDocumented\n@Target(CLASS, ANNOTATION_CLASS, PROPERTY, FIELD, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER, TYPEALIAS)\n@Retention(AnnotationRetention.BINARY)\n@RequireKotlin(\"1.2.50\", versionKind =
```

RequireKotlinVersionKind.COMPILER_VERSION)\npublic annotation class ExperimentalUnsignedTypes\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"MathKt\")\n\n\npackage kotlin.math\n\n\n\n// constants, can't use them from nativeMath as they are not constants there\n\n/** Ratio of the circumference of a circle to its diameter, approximately 3.14159. */\n@SinceKotlin(\"1.2\")\npublic const val PI: Double = 3.141592653589793\n/** Base of the natural logarithms, approximately 2.71828. */\n@SinceKotlin(\"1.2\")\npublic const val E: Double = 2.718281828459045\n\n// region ================ Double Math ========================================\n\n/** Computes the sine of the angle [x] given in radians.\n *\n *  Special cases:\n *  - `sin(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun sin(x: Double): Double\n\n/** Computes the cosine of the angle [x] given in radians.\n *\n *  Special cases:\n *  - `cos(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun cos(x: Double): Double\n\n/**
Computes the tangent of the angle [x] given in radians.\n *\n *  Special cases:\n *  - `tan(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun tan(x: Double): Double\n\n/**\n * Computes the arc sine of the value [x];\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\n *\n * Special cases:\n *  - `asin(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun asin(x: Double): Double\n\n/**\n * Computes the arc cosine of the value [x];\n * the returned value is an angle in the range from `0.0` to `PI` radians.\n *\n * Special cases:\n *  - `acos(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun acos(x: Double): Double\n\n/**\n * Computes the arc tangent of the value [x];\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\n *\n * Special cases:\n *  - `atan(NaN)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun
atan(x: Double): Double\n\n/**\n * Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond\n * to the rectangular coordinates `(x, y)` by computing the arc tangent of the value [y] / [x];\n * the returned value is an angle in the range from `-PI` to `PI` radians.\n *\n * Special cases:\n *  - `atan2(0.0, 0.0)` is `0.0`\n *  - `atan2(0.0, x)` is `0.0` for `x > 0` and `PI` for `x < 0`\n *  - `atan2(-0.0, x)` is `-0.0` for 'x > 0` and `-PI` for `x < 0`\n *  - `atan2(y, +Inf)` is `0.0` for `0 < y < +Inf` and `-0.0` for '-Inf < y < 0`\n *  - `atan2(y, -Inf)` is `PI` for `0 < y < +Inf` and `-PI` for `-Inf < y < 0`\n *  - `atan2(y, 0.0)` is `PI/2` for `y > 0` and `-PI/2` for `y < 0`\n *  - `atan2(+Inf, x)` is `PI/2` for finite `x`y\n *  - `atan2(-Inf, x)` is `-PI/2` for finite `x`\n *  - `atan2(NaN, x)` and `atan2(y, NaN)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun atan2(y: Double, x: Double): Double\n\n/**\n * Computes the hyperbolic sine of the
value [x].\n *\n * Special cases:\n *  - `sinh(NaN)` is `NaN`\n *  - `sinh(+Inf)` is `+Inf`\n *  - `sinh(-Inf)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun sinh(x: Double): Double\n\n/**\n * Computes the hyperbolic cosine of the value [x].\n *\n * Special cases:\n *  - `cosh(NaN)` is `NaN`\n *  - `cosh(+Inf|-Inf)` is `+Inf`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun cosh(x: Double): Double\n\n/**\n * Computes the hyperbolic tangent of the value [x].\n *\n * Special cases:\n *  - `tanh(NaN)` is `NaN`\n *  - `tanh(+Inf)` is `1.0`\n *  - `tanh(-Inf)` is `-1.0`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun tanh(x: Double): Double\n\n/**\n * Computes the inverse hyperbolic sine of the value [x].\n *\n * The returned value is `y` such that `sinh(y) == x`.\n *\n * Special cases:\n *  - `asinh(NaN)` is `NaN`\n *  - `asinh(+Inf)` is `+Inf`\n *  - `asinh(-Inf)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun asinh(x: Double): Double\n\n/**\n * Computes the
inverse hyperbolic cosine of the value [x].\n *\n * The returned value is positive `y` such that `cosh(y) == x`.\n *\n * Special cases:\n *  - `acosh(NaN)` is `NaN`\n *  - `acosh(x)` is `NaN` when `x < 1`\n *  - `acosh(+Inf)` is `+Inf`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun acosh(x: Double): Double\n\n/**\n * Computes the inverse hyperbolic tangent of the value [x].\n *\n * The returned value is `y` such that `tanh(y) == x`.\n *\n * Special cases:\n *  - `tanh(NaN)` is `NaN`\n *  - `tanh(x)` is `NaN` when `x > 1` or `x < -1`\n *  - `tanh(1.0)` is `+Inf`\n *  - `tanh(-1.0)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun atanh(x: Double): Double\n\n/**\n * Computes `sqrt(x^2 + y^2)` without intermediate overflow or underflow.\n *\n * Special cases:\n *  - returns `+Inf`

if any of arguments is infinite\n *  - returns `NaN` if any of arguments is `NaN` and the other is not infinite\n */\n@SinceKotlin(\"1.2\")\npublic expect fun hypot(x: Double, y: Double): Double\n\n/**\n * Computes the positive square root of the value [x].\n *\n * Special cases:\n *  - `sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun sqrt(x: Double): Double\n\n/**\n * Computes Euler's number `e` raised to the power of the value [x].\n *\n * Special cases:\n *  - `exp(NaN)` is `NaN`\n *  - `exp(+Inf)` is `+Inf`\n *  - `exp(-Inf)` is `0.0`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun exp(x: Double): Double\n\n/**\n * Computes `exp(x) - 1`.\n *\n * This function can be implemented to produce more precise result for [x] near zero.\n *\n * Special cases:\n *  - `expm1(NaN)` is `NaN`\n *  - `expm1(+Inf)` is `+Inf`\n *  - `expm1(-Inf)` is `-1.0`\n *\n * @see [exp] function.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun expm1(x: Double): Double\n\n/**\n * Computes the logarithm of the value [x] to the given [base].\n *\n * Special cases:\n *  - `log(x, b)` is `NaN` if either `x` or `b` are `NaN`\n *  - `log(x, b)` is `NaN` when
 `x < 0` or `b <= 0` or `b == 1.0`\n *  - `log(+Inf, +Inf)` is `NaN`\n *  - `log(+Inf, b)` is `+Inf` for `b > 1` and `-Inf` for `b < 1`\n *  - `log(0.0, b)` is `-Inf` for `b > 1` and `+Inf` for `b > 1`\n *\n * See also logarithm functions for common fixed bases: [ln], [log10] and [log2].\n */\n@SinceKotlin(\"1.2\")\npublic expect fun log(x: Double, base: Double): Double\n\n/**\n * Computes the natural logarithm (base `E`) of the value [x].\n *\n * Special cases:\n *  - `ln(NaN)` is `NaN`\n *  - `ln(x)` is `NaN` when `x < 0.0`\n *  - `ln(+Inf)` is `+Inf`\n *  - `ln(0.0)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun ln(x: Double): Double\n\n/**\n * Computes the common logarithm (base 10) of the value [x].\n *\n * @see [ln] function for special cases.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun log10(x: Double): Double\n\n/**\n * Computes the binary logarithm (base 2) of the value [x].\n *\n * @see [ln] function for special cases.\n */\n@SinceKotlin(\"1.2\")\npublic
 expect fun log2(x: Double): Double\n\n/**\n * Computes `ln(x + 1)`.\n *\n * This function can be implemented to produce more precise result for [x] near zero.\n *\n * Special cases:\n *  - `ln1p(NaN)` is `NaN`\n *  - `ln1p(x)` is `NaN` where `x < -1.0`\n *  - `ln1p(-1.0)` is `-Inf`\n *  - `ln1p(+Inf)` is `+Inf`\n *\n * @see [ln] function\n * @see [expm1] function\n */\n@SinceKotlin(\"1.2\")\npublic expect fun ln1p(x: Double): Double\n\n/**\n * Rounds the given value [x] to an integer towards positive infinity.\n\n * @return the smallest double value that is greater than or equal to the given value [x] and is a mathematical integer.\n *\n * Special cases:\n *  - `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun ceil(x: Double): Double\n\n/**\n * Rounds the given value [x] to an integer towards negative infinity.\n\n * @return the largest double value that is smaller than or equal to the given
 value [x] and is a mathematical integer.\n *\n * Special cases:\n *  - `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun floor(x: Double): Double\n\n/**\n * Rounds the given value [x] to an integer towards zero.\n *\n * @return the value [x] having its fractional part truncated.\n *\n * Special cases:\n *  - `truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun truncate(x: Double): Double\n\n/**\n * Rounds the given value [x] towards the closest integer with ties rounded towards even integer.\n *\n * Special cases:\n *  - `round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun round(x: Double): Double\n\n/**\n * Returns the absolute value of the given value [x].\n *\n * Special cases:\n *  - `abs(NaN)` is `NaN`\n *\n * @see absoluteValue
 extension property for [Double]\n */\n@SinceKotlin(\"1.2\")\npublic expect fun abs(x: Double): Double\n\n/**\n * Returns the sign of the given value [x]:\n *  - `-1.0` if the value is negative,\n *  - zero if the value is zero,\n *  - `1.0` if the value is positive\n *\n * Special case:\n *  - `sign(NaN)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun sign(x: Double): Double\n\n\n/**\n * Returns the smaller of two values.\n *\n * If either value is `NaN`, then the result is `NaN`.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun min(a: Double, b: Double): Double\n\n/**\n * Returns the greater of two values.\n *\n * If either value is `NaN`, then the result is `NaN`.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun max(a: Double, b: Double): Double\n\n// extensions\n\n/**\n * Raises this value to the power [x].\n *\n * Special cases:\n *  - `b.pow(0.0)` is `1.0`\n *  - `b.pow(1.0) == b`\n *  - `b.pow(NaN)` is `NaN`\n *  - `NaN.pow(x)` is `NaN` for `x != 0.0`\n *

- `b.pow(Inf)` is `NaN` for `abs(b) == 1.0`\n *  - `b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Double.pow(x: Double): Double\n\n/**\n * Raises this value to the integer power [n].\n *\n * See the other overload of [pow] for details.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Double.pow(n: Int): Double\n\n/**\n * Returns the absolute value of this value.\n *\n * Special cases:\n *  - `NaN.absoluteValue` is `NaN`\n *\n * @see abs function\n */\n@SinceKotlin(\"1.2\")\npublic expect val Double.absoluteValue: Double\n\n/**\n * Returns the sign of this value:\n *  - `-1.0` if the value is negative,\n *  - zero if the value is zero,\n *  - `1.0` if the value is positive\n *\n * Special case:\n *  - `NaN.sign` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect val Double.sign: Double\n\n/**\n * Returns this value with the sign bit same as of the [sign] value.\n *\n * If [sign] is `NaN` the sign of the result
is undefined.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Double.withSign(sign: Double): Double\n\n/**\n * Returns this value with the sign bit same as of the [sign] value.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Double.withSign(sign: Int): Double\n\n/**\n * Returns the ulp (unit in the last place) of this value.\n *\n * An ulp is a positive distance between this value and the next nearest [Double] value larger in magnitude.\n *\n * Special Cases:\n *  - `NaN.ulp` is `NaN`\n *  - `x.ulp` is `+Inf` when `x` is `+Inf` or `-Inf`\n *  - `0.0.ulp` is `Double.MIN_VALUE`\n */\n@SinceKotlin(\"1.2\")\npublic expect val Double.ulp: Double\n\n/**\n * Returns the [Double] value nearest to this value in direction of positive infinity.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Double.nextUp(): Double\n\n/**\n * Returns the [Double] value nearest to this value in direction of negative infinity.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Double.nextDown(): Double\n\n/**\n * Returns
the [Double] value nearest to this value in direction from this value towards the value [to].\n *\n * Special cases:\n *  - `x.nextTowards(y)` is `NaN` if either `x` or `y` are `NaN`\n *  - `x.nextTowards(x) == x`\n *\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Double.nextTowards(to: Double): Double\n\n/**\n * Rounds this [Double] value to the nearest integer and converts the result to [Int].\n * Ties are rounded towards positive infinity.\n *\n * Special cases:\n *  - `x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`\n *  - `x.roundToInt() == Int.MIN_VALUE` when `x < Int.MIN_VALUE`\n *\n * @throws IllegalArgumentException when this value is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Double.roundToInt(): Int\n\n/**\n * Rounds this [Double] value to the nearest integer and converts the result to [Long].\n * Ties are rounded towards positive infinity.\n *\n * Special cases:\n *  - `x.roundToLong() == Long.MAX_VALUE` when `x > Long.MAX_VALUE`\n *  - `x.roundToLong()
== Long.MIN_VALUE` when `x < Long.MIN_VALUE`\n *\n * @throws IllegalArgumentException when this value is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Double.roundToLong(): Long\n\n// endregion\n\n\n\n// region ================ Float Math ======================================\n\n/** Computes the sine of the angle [x] given in radians.\n *\n *  Special cases:\n *  - `sin(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun sin(x: Float): Float\n\n/** Computes the cosine of the angle [x] given in radians.\n *\n *  Special cases:\n *  - `cos(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun cos(x: Float): Float\n\n/** Computes the tangent of the angle [x] given in radians.\n *\n *  Special cases:\n *  - `tan(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun tan(x: Float): Float\n\n/**\n * Computes the arc sine of the value [x];\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\n
*\n * Special cases:\n *  - `asin(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun asin(x: Float): Float\n\n/**\n * Computes the arc cosine of the value [x];\n * the returned value is an angle in the range from `0.0` to `PI` radians.\n *\n * Special cases:\n *  - `acos(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun acos(x: Float): Float\n\n/**\n * Computes the arc tangent of the value [x];\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\n *\n * Special cases:\n *  - `atan(NaN)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun atan(x: Float): Float\n\n/**\n * Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond\n * to the rectangular coordinates `(x, y)` by computing the arc tangent of the value [y] / [x];\n * the returned value is an angle in the range from `-PI` to `PI` radians.\n *\n * Special cases:\n *  - `atan2(0.0, 0.0)`

is `0.0`\n *  - `atan2(0.0, x)` is  `0.0` for `x > 0` and `PI` for `x < 0`\n *  - `atan2(-0.0, x)` is `-0.0` for 'x > 0` and `-PI` for `x < 0`\n *  - `atan2(y, +Inf)` is `0.0` for `0 < y < +Inf` and `-0.0` for '-Inf < y < 0`\n *  - `atan2(y, -Inf)` is `PI` for `0 < y < +Inf` and `-PI` for `-Inf < y < 0`\n *  - `atan2(y, 0.0)` is `PI/2` for `y > 0` and `-PI/2` for `y < 0`\n *  - `atan2(+Inf, x)` is `PI/2` for finite `x`y\n *  - `atan2(-Inf, x)` is `-PI/2` for finite `x`\n *  - `atan2(NaN, x)` and `atan2(y, NaN)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun atan2(y: Float, x: Float): Float\n\n/**\n * Computes the hyperbolic sine of the value [x].\n *\n * Special cases:\n *  - `sinh(NaN)` is `NaN`\n *  - `sinh(+Inf)` is `+Inf`\n *  - `sinh(-Inf)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun sinh(x: Float): Float\n\n/**\n * Computes the hyperbolic cosine of the value [x].\n *\n * Special cases:\n *  - `cosh(NaN)` is `NaN`\n *  - `cosh(+Inf|-Inf)` is
`+Inf`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun cosh(x: Float): Float\n\n/**\n * Computes the hyperbolic tangent of the value [x].\n *\n * Special cases:\n *  - `tanh(NaN)` is `NaN`\n *  - `tanh(+Inf)` is `1.0`\n *  - `tanh(-Inf)` is `-1.0`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun tanh(x: Float): Float\n\n/**\n * Computes the inverse hyperbolic sine of the value [x].\n *\n * The returned value is `y` such that `sinh(y) == x`.\n *\n * Special cases:\n *  - `asinh(NaN)` is `NaN`\n *  - `asinh(+Inf)` is `+Inf`\n *  - `asinh(-Inf)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun asinh(x: Float): Float\n\n/**\n * Computes the inverse hyperbolic cosine of the value [x].\n *\n * The returned value is positive `y` such that `cosh(y) == x`.\n *\n * Special cases:\n *  - `acosh(NaN)` is `NaN`\n *  - `acosh(x)` is `NaN` when `x < 1`\n *  - `acosh(+Inf)` is `+Inf`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun acosh(x: Float): Float\n\n/**\n * Computes the inverse hyperbolic tangent of the value [x].\n *\n * The returned value is `y` such that `tanh(y) == x`.\n *\n * Special cases:\n *  - `tanh(NaN)` is `NaN`\n *  - `tanh(x)` is `NaN` when `x > 1` or `x < -1`\n *  - `tanh(1.0)` is `+Inf`\n *  - `tanh(-1.0)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun atanh(x: Float): Float\n\n/**\n * Computes `sqrt(x^2 + y^2)` without intermediate overflow or underflow.\n *\n * Special cases:\n *  - returns `+Inf` if any of arguments is infinite\n *  - returns `NaN` if any of arguments is `NaN` and the other is not infinite\n */\n@SinceKotlin(\"1.2\")\npublic expect fun hypot(x: Float, y: Float): Float\n\n/**\n * Computes the positive square root of the value [x].\n *\n * Special cases:\n *  - `sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun sqrt(x: Float): Float\n\n/**\n * Computes Euler's number `e` raised to the power of the value [x].\n *\n * Special cases:\n *  - `exp(NaN)` is `NaN`\n *  - `exp(+Inf)`
is `+Inf`\n *  - `exp(-Inf)` is `0.0`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun exp(x: Float): Float\n\n/**\n * Computes `exp(x) - 1`.\n *\n * This function can be implemented to produce more precise result for [x] near zero.\n *\n * Special cases:\n *  - `expm1(NaN)` is `NaN`\n *  - `expm1(+Inf)` is `+Inf`\n *  - `expm1(-Inf)` is `-1.0`\n *\n * @see [exp] function.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun expm1(x: Float): Float\n\n/**\n * Computes the logarithm of the value [x] to the given [base].\n *\n * Special cases:\n *  - `log(x, b)` is `NaN` if either `x` or `b` are `NaN`\n *  - `log(x, b)` is `NaN` when `x < 0` or `b <= 0` or `b == 1.0`\n *  - `log(+Inf, +Inf)` is `NaN`\n *  - `log(+Inf, b)` is `+Inf` for `b > 1` and `-Inf` for `b < 1`\n *  - `log(0.0, b)` is `-Inf` for `b > 1` and `+Inf` for `b > 1`\n *\n * See also logarithm functions for common fixed bases: [ln], [log10] and [log2].\n */\n@SinceKotlin(\"1.2\")\npublic expect fun log(x: Float, base:
Float): Float\n\n/**\n * Computes the natural logarithm (base `E`) of the value [x].\n *\n * Special cases:\n *  - `ln(NaN)` is `NaN`\n *  - `ln(x)` is `NaN` when `x < 0.0`\n *  - `ln(+Inf)` is `+Inf`\n *  - `ln(0.0)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun ln(x: Float): Float\n\n/**\n * Computes the common logarithm (base 10) of the value [x].\n *\n * @see [ln] function for special cases.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun log10(x: Float): Float\n\n/**\n * Computes the binary logarithm (base 2) of the value [x].\n *\n * @see [ln] function for special cases.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun log2(x: Float): Float\n\n/**\n * Computes `ln(a + 1)`.\n *\n * This function can be implemented to produce more precise result for [x] near zero.\n *\n * Special cases:\n *  - `ln1p(NaN)` is `NaN`\n *  - `ln1p(x)` is `NaN` where `x < -1.0`\n *  - `ln1p(-1.0)` is `-Inf`\n *  - `ln1p(+Inf)` is `+Inf`\n *\n * @see [ln] function\n * @see [expm1] function\n
*/\n@SinceKotlin(\"1.2\")\npublic expect fun ln1p(x: Float): Float\n\n/**\n * Rounds the given value [x] to an integer towards positive infinity.\n\n * @return the smallest Float value that is greater than or equal to the given value [x] and is a mathematical integer.\n *\n * Special cases:\n *  - `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-

Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun ceil(x: Float): Float\n\n/**\n * Rounds the given value [x] to an integer towards negative infinity.\n\n * @return the largest Float value that is smaller than or equal to the given value [x] and is a mathematical integer.\n *\n * Special cases:\n *  - `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun floor(x: Float): Float\n\n/**\n * Rounds the given value [x] to an integer towards zero.\n *\n * @return the value [x] having its fractional part truncated.\n *\n
 * Special cases:\n *  - `truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun truncate(x: Float): Float\n\n/**\n * Rounds the given value [x] towards the closest integer with ties rounded towards even integer.\n *\n * Special cases:\n *  - `round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun round(x: Float): Float\n\n\n/**\n * Returns the absolute value of the given value [x].\n *\n * Special cases:\n * - `abs(NaN)` is `NaN`\n *\n * @see absoluteValue extension property for [Float]\n */\n@SinceKotlin(\"1.2\")\npublic expect fun abs(x: Float): Float\n\n/**\n * Returns the sign of the given value [x]:\n *  - `-1.0` if the value is negative,\n *  - zero if the value is zero,\n *  - `1.0` if the value is positive\n *\n * Special case:\n *  - `sign(NaN)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun
 sign(x: Float): Float\n\n\n\n/**\n * Returns the smaller of two values.\n *\n * If either value is `NaN`, then the result is `NaN`.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun min(a: Float, b: Float): Float\n\n/**\n * Returns the greater of two values.\n *\n * If either value is `NaN`, then the result is `NaN`.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun max(a: Float, b: Float): Float\n\n// extensions\n\n\n\n/**\n * Raises this value to the power [x].\n *\n * Special cases:\n *  - `b.pow(0.0)` is `1.0`\n *  - `b.pow(1.0) == b`\n *  - `b.pow(NaN)` is `NaN`\n *  - `NaN.pow(x)` is `NaN` for `x != 0.0`\n *  - `b.pow(Inf)` is `NaN` for `abs(b) == 1.0`\n *  - `b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Float.pow(x: Float): Float\n\n/**\n * Raises this value to the integer power [n].\n *\n * See the other overload of [pow] for details.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Float.pow(n: Int): Float\n\n/**\n
 * Returns the absolute value of this value.\n *\n * Special cases:\n *  - `NaN.absoluteValue` is `NaN`\n *\n * @see abs function\n */\n@SinceKotlin(\"1.2\")\npublic expect val Float.absoluteValue: Float\n\n/**\n * Returns the sign of this value:\n *  - `-1.0` if the value is negative,\n *  - zero if the value is zero,\n *  - `1.0` if the value is positive\n *\n * Special case:\n *  - `NaN.sign` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect val Float.sign: Float\n\n/**\n * Returns this value with the sign bit same as of the [sign] value.\n *\n * If [sign] is `NaN` the sign of the result is undefined.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Float.withSign(sign: Float): Float\n\n/**\n * Returns this value with the sign bit same as of the [sign] value.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Float.withSign(sign: Int): Float\n\n\n\n/**\n * Rounds this [Float] value to the nearest integer and converts the result to [Int].\n * Ties are rounded towards positive infinity.\n
 *\n * Special cases:\n *  - `x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`\n *  - `x.roundToInt() == Int.MIN_VALUE` when `x < Int.MIN_VALUE`\n *\n * @throws IllegalArgumentException when this value is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Float.roundToInt(): Int\n\n/**\n * Rounds this [Float] value to the nearest integer and converts the result to [Long].\n * Ties are rounded towards positive infinity.\n *\n * Special cases:\n *  - `x.roundToLong() == Long.MAX_VALUE` when `x > Long.MAX_VALUE`\n *  - `x.roundToLong() == Long.MIN_VALUE` when `x < Long.MIN_VALUE`\n *\n * @throws IllegalArgumentException when this value is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Float.roundToLong(): Long\n\n\n// endregion\n\n\n// region ================ Integer Math ========================================\n\n\n\n/**\n * Returns the absolute value of the given value [n].\n *\n * Special cases:\n *  - `abs(Int.MIN_VALUE)` is `Int.MIN_VALUE` due to an overflow\n
 *\n * @see absoluteValue extension property for [Int]\n */\n@SinceKotlin(\"1.2\")\npublic expect fun abs(n: Int): Int\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun min(a: Int, b: Int): Int\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun max(a: Int, b: Int): Int\n\n/**\n * Returns the absolute value of this value.\n *\n * Special cases:\n *  - `Int.MIN_VALUE.absoluteValue` is `Int.MIN_VALUE` due to an overflow\n *\n * @see abs function\n

*/\n@SinceKotlin(\"1.2\")\npublic expect val Int.absoluteValue: Int\n\n/**\n * Returns the sign of this value:\n *   - `-1` if the value is negative,\n *   - `0` if the value is zero,\n *   - `1` if the value is positive\n */\n@SinceKotlin(\"1.2\")\npublic expect val Int.sign: Int\n\n\n\n/**\n * Returns the absolute value of the given value [n].\n *\n * Special cases:\n *   - `abs(Long.MIN_VALUE)` is `Long.MIN_VALUE` due to an overflow\n *\n * @see absoluteValue
 extension property for [Long]\n */\n@SinceKotlin(\"1.2\")\npublic expect fun abs(n: Long): Long\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun min(a: Long, b: Long): Long\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun max(a: Long, b: Long): Long\n\n/**\n * Returns the absolute value of this value.\n *\n * Special cases:\n *   - `Long.MIN_VALUE.absoluteValue` is `Long.MIN_VALUE` due to an overflow\n *\n * @see abs function\n */\n@SinceKotlin(\"1.2\")\npublic expect val Long.absoluteValue: Long\n\n/**\n * Returns the sign of this value:\n *   - `-1` if the value is negative,\n *   - `0` if the value is zero,\n *   - `1` if the value is positive\n */\n@SinceKotlin(\"1.2\")\npublic expect val Long.sign: Int\n\n\n\n// endregion\n"],"names":[],"mappings":"AAWC,CAXA,yB;EACG,IAAI,OAAO,MAAO,KAAI,UAAW,IAAG,MAAM,IAA1C,C;IACI,MAAM,CAAC,QAAD,EAAW,CAAC,SAAD,CAAX,EAAwB,OAAxB,C;SAEL,IAAI,OAAO,OAAQ,KAAI,QAAvB,C;IACD,OAAO,CAAC,MAAM,QAAP,C;;IAGP,IAAI,OAAQ,GAAE,E;IACd,OAAO,CAAC,IAAI,OAAL,C;;CAEd,CAAC,IAAD,EAAO,kB;EACJ,IAAI,IAAI,M;ECPZ,MAAM,eAAgB,GAAE,a;IACpB,OAAoD,CAA5C,KAAK,QAAQ,CAAC,CAAD,CAAI,IAAG,CAAE,YAAW,SAAW,KAAG,CAAC,OAAQ,KAAI,c;G;EAGxE,MAAM,YAAa,GAAE,a;IACjB,OAAO,CAAE,YAAW,SAAU,IAAG,CAAC,OAAQ,KAAI,c;G;EAGlD,MAAM,aAAc,GAAE,a;IAClB,OAAO,CAAE,YAAW,U;G;EAGxB,MAAM,YAAa,GAAE,a;IACjB,OAAO,CAAE,YAAW,WAAY,IAAG,CAAC,OAAQ,KAAI,W;G;EAGpD,MAAM,WAAY,GAAE,a;IAChB,OAAO,CAAE,YAAW,U;G;EAGxB,MAAM,aAAc,GAAE,a;IAClB,OAAO,CAAE,YAAW,Y;G;EAGxB,MAAM,cAAe,GAAE,a;IACnB,OAAO,CAAE,YAAW,Y;G;EAGxB,MAAM,YAAa,GAAE,a;IACjB,OAAO,KAAK,QAAQ,CAAC,CAAD,CAAI,IAAG,CAAC,OAAQ,KAAI,W;G;EAG5C,MAAM,QAAS,GAAE,a;IACb,OAAO,KAAK,QAAQ,CAAC,CAAD,CAAI,IAAG,CAAC,CAAC,O;G;EAGjC,MAAM,WAAY,GAAE,a;IAChB,OAAO,KAAK,QAAQ,CAAC,CAAD,CAAI,IAAG,WAAW,OAAO,CAAC,CAAD,C;G;EAGjD,MAAM,cAAe,GAAE,a;IACnB,IAAI,CAAE,KAAI,IAAV,C;MAAgB,OAAO,M;IACvB,IAAI,WAAW,MAAM,YAAY,CAAC,CAAD,CAAI,GAAE,MAAM,aAAR,GAAwB,MAAM,S;IACnE,OAAO,GAAI,GAAE,KAAK,UAAU,IAAI,KAAK,CAAC,CAAD,EAAI,a;MAAc,OAAO,QAAQ,CAAC,CAAD,C;KAAjC,CAAwC,KAAK,CAAC,IAAD,CAAO,GAAE,G;G;EAG/F,MAAM,kBAAmB,GAAE,e;IACvB,OAAO,MAAM,OAAO,YAAY,wBAAwB,CAAC,GAAD,C;G;EAG5D,MAAM,YAAa,GAAE,gB;IACjB,IAAI,CAAE,KAAI,CAAV,C;MACI,OAAO,I;;KAEX,IAAI,CAAE,KAAI,IAAK,IAAG,CAAE,KAAI,IAAK,IAAG,CAAC,MAAM,WAAW,CAAC,CAAD,CAAI,IAAG,CAAC,OAAQ,KAAI,CAAC,OAAvE,C;MACI,OAAO,K;KAGX,KAAK,IAAI,IAAI,CAAR,EAAW,IAAI,CAAC,OAArB,EAA8B,CAAE,GAAE,CAAlC,EAAqC,CAAC,EAAtC,C;MACI,IAAI,CAAC,MAAM,OAAO,CAAC,CAAC,CAAC,CAAD,CAAF,EAAO,CAAC,CAAC,CAAD,CAAR,CAAlB,C;QACI,OAAO,K;;;IAGf,OAAO,I;G;EAGX,MAAM,gBAAiB,GAAE,gB;IACrB,OAAO,MAAM,OAAO,YAAY,sBAAsB,CAAC,CAAD,EAAI,CAAJ,C;G;EAG1D,MAAM,cAAe,GAAE,e;IACnB,IAAI,GAAI,KAAI,IAAZ,C;MAAkB,OAAO,C;IACzB,IAAI,SAAS,C;IACb,KAAK,IAAI,IAAI,CAAR,EAAW,IAAI,GAAG,OAAvB,EAAgC,CAAE,GAAE,CAApC,EAAuC,CAAC,EAAxC,C;MACI,MAAO,GAAqB,CAAjB,EAAG,GAAE,MAAO,GAAE,MAAO,GAAE,CAAnB,IAAwB,MAAM,SAAS,CAAC,GAAG,CAAC,CAAD,CAAJ,CAAU,GAAE,C;;IAE7D,OAAO,M;G;EAGX,MAAM,kBAAmB,GAAE,e;IACvB,OAAO,MAAM,OAAO,YAAY,wBAAwB,CAAC,GAAD,C;G;EAG5D,MAAM,mBAAoB,GAAE,iB;IACxB,KAAK,KAAK,CAAC,MAAM,gBAAP,C;G;ECpFd,MAAM,eAAgB,GAAE,mB;IACpB,CAAC,aAAc,GAAE,I;IACjB,OAAO,C;G;EAGX,MAAM,uBAAwB,GAAE,4C;IAC5B,MAAM,IAAK,GAAE,M;IACb,MAAM,IAAK,GAAE,M;IACb,MAAM,aAAc,GAAE,I;IACtB,OAAO,mBAAmB,CAAC,MAAD,EAAS,MAAT,EAAiB,6BAA6B,CAAC,UAAD,CAA9C,C;G;EAG9B,iD;IACI,GAAG,WAAY,GAAE,sBAAsB,CAAC,OAAO,MAAO,KAAI,UAAW,GAAE,KAAK,QAAQ,GAAkB,KAAK,UAArD,C;IACvC,GAAG,YAAa,GAAE,G;IAClB,OAAO,G;G;EAGX,IAAI,gCAAgC,CAAChC,UAAUCa,QAAQ,IAAIT,wBAAqC,Y;IAC1C,OAAO,MAAM,OAAO,QAAQ,k B;GADvB,CADb,aAAIe,QAAQ,IAAIT,wBAAqC,Y;IAC5C,OAAO,MAAM,OAAO,QAAQ,W;GADrB,CAAJf,CADgC,EAAShC,UAAUCa,QAAQ,IAAIT,wBAAqC,Y;IAC1C,OAAO,MAAM,OAAO,QAAQ,kB;GADvB,CADb,aAAIe,QAAQ,I

AAT,wBAAqC,Y;IAC5C,OAAO,MAAM,OAAO,QAAQ,W;GADrB,CAJf,CATgC,C;EAmBpC,uC;IACI,IAAI,KA
AK,MAAO,KAAI,IAApB,C;MACI,KAAK,MAAO,GAAE,aACE,CAAC,KAAK,qBAAqB,EAA3B,CADF,aAEC,I
AFD,aAGC,EAHD,cAIE,EAJF,SAKH,EALG,iBAMK,EANL,C;KASlB,OAAO,KAAK,M;G;EChDhB,MAAM,QA
AS,GAAE,a;IACb,OAAoB,CAAZ,CAAE,GAAE,KAAQ,KAAG,EAAG,IAAG,E;G;EAGjC,MAAM,OAAQ,GAA
E,a;IACZ,OAAkB,CAAV,CAAE,GAAE,GAAM,KAAG,EAAG,IAAG,E;G;EAG/B,MAAM,OAAQ,GAAE,a;IAC
Z,OAAO,CAAE,GAAE,K;G;EAGf,MAAM,aAAc,GAAE,a;IAClB,OAAO,CAAE,YAAW,MAAM,KAAM,GAAE,
CAAF,GAAM,MAAM,KAAK,WAAW,CAAC,CAAD,C;G;EAGhE,MAAM,YAAa,GAAE,a;IACjB,OAAO,CAAE
,YAAW,MAAM,KAAM,GAAE,CAAC,MAAM,EAAT,GAAc,MAAM,YAAY,CAAC,CAAD,C;G;EAGpE,MAA
M,cAAe,GAAE,a;IACnB,OAAO,MAAM,QAAQ,CAAC,MAAM,YAAY,CAAC,CAAD,CAAnB,C;G;EAGzB,MA
AM,aAAc,GAAE,a;IAClB,OAAO,MAAM,OAAO,CAAC,MAAM,YAAY,CAAC,CAAD,CAAnB,C;G;EAGxB,M
AAM,eAAgB,GAAE,a;IACpB,OAAO,CAAC,C;G;EAGZ,MAAM,aAAc,GAAE,a;IAClB,OAAO,MAAM,OAAO,
CAAC,MAAM,YAAY,CAAC,CAAD,CAAnB,C;G;EAGxB,MAAM,YAAa,GAAE,a;IACjB,IAAI,CAAE,GAAE,U
AAR,C;MAAoB,OAAO,U;IAC3B,IAAI,CAAE,GAAE,WAAR,C;MAAqB,OAAO,W;IAC5B,OAAO,CAAE,GAA
E,C;G;EAGf,MAAM,YAAa,GAAE,a;IACjB,IAAI,CAAE,IAAG,IAAT,C;MAAe,OAAO,C;IACtB,IAAI,CAAE,Y
AAW,MAAM,UAAvB,C;MAAmC,OAAO,C;IAC1C,OAAO,IAAI,MAAM,UAAV,CAAqB,CAArB,C;G;EAGX,M
AAM,UAAW,GAAE,a;IACf,IAAI,CAAE,IAAG,IAAT,C;MAAe,OAAO,C;IACtB,OAAO,MAAM,OAAO,CAAC,
CAAD,C;G;EClDxB,MAAM,OAAQ,GAAE,sB;IACZ,IAAI,IAAK,IAAG,IAAZ,C;MACI,OAAO,IAAK,IAAG,I;K
AGnB,IAAI,IAAK,IAAG,IAAZ,C;MACI,OAAO,K;KAGX,IAAI,IAAK,KAAI,IAAb,C;MACI,OAAO,IAAK,KAA
I,I;KAGpB,IAAI,OAAO,IAAK,KAAI,QAAS,IAAG,OAAO,IAAI,OAAQ,KAAI,UAAvD,C;MACI,OAAO,IAAI,O
AAO,CAAC,IAAD,C;KAGtB,IAAI,OAAO,IAAK,KAAI,QAAS,IAAG,OAAO,IAAK,KAAI,QAAhD,C;MACI,OA
AO,IAAK,KAAI,IAAK,KAAI,IAAK,KAAI,CAAE,IAAG,CAAE,GAAE,IAAK,KAAI,CAAE,GAAE,IAAnC,C;K
AGzB,OAAO,IAAK,KAAI,I;G;EAGpB,MAAM,SAAU,GAAE,e;IACd,IAAI,GAAI,IAAG,IAAX,C;MACI,OAAO,
C;KAEX,IAAI,UAAU,OAAO,G;IACrB,IAI,QAAS,KAAI,OAAjB,C;MACI,OAAO,UAAW,KAAI,OAAO,GAA
G,SAAU,GAAE,GAAG,SAAS,EAAd,GAAmB,iBAAiB,CAAC,GAAD,C;KAElF,IAAI,UAAW,KAAI,OAAnB,C;
MACI,OAAO,iBAAiB,CAAC,GAAD,C;KAE5B,IAAI,QAAS,KAAI,OAAjB,C;MACI,OAAO,MAAM,eAAe,CAA
C,GAAD,C;KAEhC,IAAI,SAAU,KAAI,OAAlB,C;MACI,OAAO,MAAM,CAAC,GAAD,C;KAGjB,IAAI,MAAM,
MAAM,CAAC,GAAD,C;IAChB,OAAO,iBAAiB,CAAC,GAAD,C;G;EAI5B,MAAM,SAAU,GAAE,a;IACd,IAAI,
CAAE,IAAG,IAAT,C;MACI,OAAO,M;WAEN,IAAI,MAAM,WAAW,CAAC,CAAD,CAArB,C;MACD,OAAO,O
;;MAGP,OAAO,CAAC,SAAS,E;;G;EAKzB,IAAI,WAAW,a;EAGf,IAAI,iCAAiC,sB;EAErC,gC;IACI,IAAI,EAAE
,8BAA+B,IAAG,GAApC,CAAJ,C;MACI,IAAI,OAAQ,IAAI,OAAO,EAAG,GAAE,QAAU,GAAE,C;MACxC,MA
AM,eAAe,CAAC,GAAD,EAAM,8BAAN,EAAsC,QAAU,IAAV,cAA4B,KAA5B,CAAtC,C;KAEzB,OAAO,GAA
G,CAAC,8BAAD,C;G;EAGd,gC;IACI,IAAI,OAAO,C;IACX,KAAK,IAAI,IAAI,CAAb,EAAgB,CAAE,GAAE,G
AAG,OAAvB,EAAgC,CAAC,EAAjC,C;MACI,IAAI,OAAQ,GAAG,WAAW,CAAC,CAAD,C;MAC1B,IAAM,G
AAG,IAAK,GAAE,EAAG,GAAE,IAAM,GAAE,C;;IAEjC,OAAO,I;G;EAGX,MAAM,iBAAkB,GAAE,iB;EC9C1
B,MAAM,KAAM,GAAE,qB;IAKZ,IAAI,KAAM,GAAE,GAAI,GAAE,C;IAMlB,IAI,MAAO,GAAE,IAAK,GA
AE,C;G;EAGtB,MAAM,KAAK,WAAY,GAAE,OACf,OADe,cAET,MAFS,cAGV,EAHU,C;EAgBzB,MAAM,KA
AK,UAAW,GAAE,E;EAQxB,MAAM,KAAK,QAAS,GAAE,iB;IACpB,IAAI,IAAK,IAAG,KAAM,IAAG,KAAM,
GAAE,GAA7B,C;MACE,IAAI,YAAY,MAAM,KAAK,UAAU,CAAC,KAAD,C;MACrC,IAAI,SAAJ,C;QACE,O
AAO,S;QAIX,IAAI,MAAM,IAAI,MAAM,KAAV,CAAgB,KAAM,GAAE,CAAxB,EAA2B,KAAM,GAAE,CAAE
,GAAE,EAAF,GAAO,CAA5C,C;IACV,IAAI,IAAK,IAAG,KAAM,IAAG,KAAM,GAAE,GAA7B,C;MACE,MAA
M,KAAK,UAAU,CAAC,KAAD,CAAQ,GAAE,G;KAEjC,OAAO,G;G;EAYT,MAAM,KAAK,WAAY,GAAE,iB;I
ACvB,IAI,KAAK,CAAC,KAAD,CAAT,C;MACE,OAAO,MAAM,KAAK,K;WACb,IAAI,KAAM,IAAG,CAAC,
MAAM,KAAK,gBAAzB,C;MACL,OAAO,MAAM,KAAK,U;WACb,IAAI,KAAM,GAAE,CAAE,IAAG,MAAM,
KAAK,gBAA5B,C;MACL,OAAO,MAAM,KAAK,U;WACb,IAAI,KAAM,GAAE,CAAZ,C;MACL,OAAO,MAA
M,KAAK,WAAW,CAAC,CAAC,KAAF,CAAQ,OAAO,E;;MAE5C,OAAO,IAAI,MAAM,KAAV,CACF,KAAM,
GAAE,MAAM,KAAK,gBAAkB,GAAE,CADrC,EAEF,KAAM,GAAE,MAAM,KAAK,gBAAkB,GAAE,CAFrC,C
;;G;EAcX,MAAM,KAAK,SAAU,GAAE,6B;IACrB,OAAO,IAAI,MAAM,KAAV,CAAgB,OAAhB,EAAyB,QAAz
B,C;G;EAWT,MAAM,KAAK,WAAY,GAAE,0B;IACvB,IAAI,GAAG,OAAQ,IAAG,CAAlB,C;MACE,MAAM,K

AAK,CAAC,mCAAD,C;KAGb,IAAI,QAAQ,SAAU,IAAG,E;IACzB,IAAI,KAAM,GAAE,CAAE,IAAG,EAAG,G
AAE,KAAtB,C;MACE,MAAM,KAAK,CAAC,sBAAuB,GAAE,KAA1B,C;KAGb,IAAI,GAAG,OAAO,CAAC,C
AAD,CAAI,IAAG,GAArB,C;MACE,OAAO,MAAM,KAAK,WAAW,CAAC,GAAG,UAAU,CAAC,CAAD,CAAd
,EAAmB,KAAnB,CAAyB,OAAO,E;WACxD,IAAI,GAAG,QAAQ,CAAC,GAAD,CAAM,IAAG,CAAxB,C;MAC
L,MAAM,KAAK,CAAC,+CAAgD,GAAE,GAAnD,C;KAKb,IAAI,eAAe,MAAM,KAAK,WAAW,CAAC,IAAI,IA
AI,CAAC,KAAD,EAAQ,CAAR,CAAT,C;IAEzC,IAAI,SAAS,MAAM,KAAK,K;IACxB,KAAK,IAAI,IAAI,CAA
b,EAAgB,CAAE,GAAE,GAAG,OAAvB,EAAgC,CAAE,IAAG,CAArC,C;MACE,IAAI,OAAO,IAAI,IAAI,CAAC
,CAAD,EAAI,GAAG,OAAQ,GAAE,CAAjB,C;MACnB,IAAI,QAAQ,QAAQ,CAAC,GAAG,UAAU,CAAC,CAA
D,EAAI,CAAE,GAAE,IAAR,CAAd,EAA6B,KAA7B,C;MACpB,IAAI,IAAK,GAAE,CAAX,C;QACE,IAAI,QAA
Q,MAAM,KAAK,WAAW,CAAC,IAAI,IAAI,CAAC,KAAD,EAAQ,IAAR,CAAT,C;QAClC,MAAO,GAAE,MAA
M,SAAS,CAAC,KAD,CAAO,IAAI,CAAC,MAAM,KAAK,WAAW,CAAC,KAAD,CAAvB,C;;QAEnC,MAAO,
GAAE,MAAM,SAAS,CAAC,YAAD,C;QACxB,MAAO,GAAE,MAAM,IAAI,CAAC,MAAM,KAAK,WAAW,CA
AC,KAAD,CAAvB,C;;;IAGvB,OAAO,M;G;EAcT,MAAM,KAAK,gBAAiB,GAAE,CAAE,IAAG,E;EAOnC,MA
AM,KAAK,gBAAiB,GAAE,CAAE,IAAG,E;EAOnC,MAAM,KAAK,gBAAiB,GACxB,MAAM,KAAK,gBAAiB,
GAAE,MAAM,KAAK,gB;EAO7C,MAAM,KAAK,gBAAiB,GACxB,MAAM,KAAK,gBAAiB,GAAE,C;EAOlC,
MAAM,KAAK,gBAAiB,GACxB,MAAM,KAAK,gBAAiB,GAAE,MAAM,KAAK,gB;EAO7C,MAAM,KAAK,gB
AAiB,GACxB,MAAM,KAAK,gBAAiB,GAAE,MAAM,KAAK,gB;EAO7C,MAAM,KAAK,gBAAiB,GACxB,MA
AM,KAAK,gBAAiB,GAAE,C;EAIlC,MAAM,KAAK,KAAM,GAAE,MAAM,KAAK,QAAQ,CAAC,CAAD,C;EA
ItC,MAAM,KAAK,IAAK,GAAE,MAAM,KAAK,QAAQ,CAAC,CAAD,C;EAIrC,MAAM,KAAK,QAAS,GAAE,
MAAM,KAAK,QAAQ,CAAC,EAAD,C;EAIzC,MAAM,KAAK,UAAW,GAClB,MAAM,KAAK,SAAS,CAAC,aA
AW,GAAE,CAAd,EAAiB,UAAW,GAAE,CAA9B,C;EAIxB,MAAM,KAAK,UAAW,GAAE,MAAM,KAAK,SAA
S,CAAC,CAAD,EAAI,aAAW,GAAE,CAAjB,C;EAO5C,MAAM,KAAK,YAAa,GAAE,MAAM,KAAK,QAAQ,C
AAC,CAAE,IAAG,EAAN,C;EAI7C,MAAM,KAAK,UAAU,MAAO,GAAE,Y;IAC5B,OAAO,IAAI,K;G;EAKb,M
AAM,KAAK,UAAU,SAAU,GAAE,Y;IAC/B,OAAO,IAAI,MAAO,GAAE,MAAM,KAAK,gBAAiB,GACzC,IAAI
,mBAAmB,E;G;EAIhC,MAAM,KAAK,UAAU,SAAU,GAAE,Y;IAC/B,OAAO,IAAI,MAAO,GAAE,IAAI,K;G;E
AQ1B,MAAM,KAAK,UAAU,SAAU,GAAE,qB;IAC/B,IAAI,QAAQ,SAAU,IAAG,E;IACzB,IAAI,KAAM,GAAE
,CAAE,IAAG,EAAG,GAAE,KAAtB,C;MACE,MAAM,KAAK,CAAC,sBAAuB,GAAE,KAA1B,C;KAGb,IAAI,I
AAI,OAAO,EAAAf,C;MACE,OAAO,G;KAGT,IAAI,IAAI,WAAW,EAAAnB,C;MACE,IAAI,IAAI,WAAW,CAAC,
MAAM,KAAK,UAAZ,CAAAnB,C;QAGE,IAAI,YAAY,MAAM,KAAK,WAAW,CAAC,KAAD,C;QACtC,IAAI,M
AAM,IAAI,IAAI,CAAC,SAAD,C;QAClB,IAAI,MAAM,GAAG,SAAS,CAAC,SAAD,CAAW,SAAS,CAAC,IAA
D,C;QAC1C,OAAO,GAAG,SAAS,CAAC,KAAD,CAAQ,GAAE,GAAG,MAAM,EAAAE,SAAS,CAAC,KAAD,C;;
QAEjD,OAAO,GAAI,GAAE,IAAI,OAAO,EAAAE,SAAS,CAAC,KAAD,C;;KAMvC,IAAI,eAAe,MAAM,KAAK,
WAAW,CAAC,IAAI,IAAI,CAAC,KAAD,EAAQ,CAAR,CAAT,C;IAEzC,IAAI,MAAM,I;IACV,IAAI,SAAS,E;IA
Cb,OAAO,IAAP,C;MACE,IAAI,SAAS,GAAG,IAAI,CAAC,YAAD,C;MACpB,IAAI,SAAS,GAAG,SAAS,CAAC
,MAAM,SAAS,CAAC,YAAD,CAAhB,CAA+B,MAAM,E;MAC9D,IAAI,SAAS,MAAM,SAAS,CAAC,KAAD,C;
MAE5B,GAAI,GAAE,M;MACN,IAAI,GAAG,OAAO,EAAAd,C;QACE,OAAO,MAAO,GAAE,M;;QAEhB,OAAO,
MAAM,OAAQ,GAAE,CAAvB,C;UACE,MAAO,GAAE,GAAI,GAAE,M;;QAEjB,MAAO,GAAE,EAAG,GAAE,
MAAO,GAAE,M;;;G;EAO7B,MAAM,KAAK,UAAU,YAAa,GAAE,Y;IAClC,OAAO,IAAI,M;G;EAKb,MAAM,K
AAK,UAAU,WAAY,GAAE,Y;IACjC,OAAO,IAAI,K;G;EAKb,MAAM,KAAK,UAAU,mBAAoB,GAAE,Y;IACz
C,OAAQ,IAAI,KAAM,IAAG,CAAG,GACpB,IAAI,KADgB,GACR,MAAM,KAAK,gBAAiB,GAAE,IAAI,K;G;E
AQpD,MAAM,KAAK,UAAU,cAAe,GAAE,Y;IACpC,IAAI,IAAI,WAAW,EAAAnB,C;MACE,IAAI,IAAI,WAAW,
CAAC,MAAM,KAAK,UAAZ,CAAAnB,C;QACE,OAAO,E;;QAEP,OAAO,IAAI,OAAO,EAAAE,cAAAc,E;;;MAGpC,
IAAI,MAAM,IAAI,MAAO,IAAG,CAAE,GAAE,IAAI,MAAN,GAAAe,IAAI,K;MAC7C,KAAK,IAAI,MAAM,EA
Af,EAAmB,GAAI,GAAE,CAAzB,EAA4B,GAAG,EAA/B,C;QACE,IAAAuB,CAAAlB,GAAI,GAAG,CAAE,IAAG,
GAAM,KAAG,CAA1B,C;UACE,K;;MAGJ,OAAO,IAAI,MAAO,IAAG,CAAE,GAAE,GAAI,GAAE,EAAAR,GAA
a,GAAI,GAAE,C;;G;EAM9C,MAAM,KAAK,UAAU,OAAQ,GAAE,Y;IAC7B,OAAO,IAAI,MAAO,IAAG,CAAE
,IAAG,IAAI,KAAM,IAAG,C;G;EAKzC,MAAM,KAAK,UAAU,WAAY,GAAE,Y;IACjC,OAAO,IAAI,MAAO,G
AAE,C;G;EAKtB,MAAM,KAAK,UAAU,MAAO,GAAE,Y;IAC5B,OAAuB,CAAAf,IAAI,KAAM,GAAE,CAAG,K

AAG,C;G;EAQ5B,MAAM,KAAK,UAAU,WAAY,GAAE,iB;IACjC,OAAQ,IAAI,MAAO,IAAG,KAAK,MAAQ,I
AAI,IAAI,KAAM,IAAG,KAAK,K;G;EAQ3D,MAAM,KAAK,UAAU,cAAe,GAAE,iB;IACpC,OAAQ,IAAI,MAA
O,IAAG,KAAK,MAAQ,IAAI,IAAI,KAAM,IAAG,KAAK,K;G;EAQ3D,MAAM,KAAK,UAAU,SAAU,GAAE,iB;
IAC/B,OAAO,IAAI,QAAQ,CAAC,KAAD,CAAQ,GAAE,C;G;EAQ/B,MAAM,KAAK,UAAU,gBAAiB,GAAE,iB
;IACtC,OAAO,IAAI,QAAQ,CAAC,KAAD,CAAQ,IAAG,C;G;EAQhC,MAAM,KAAK,UAAU,YAAa,GAAE,iB;I
AClC,OAAO,IAAI,QAAQ,CAAC,KAAD,CAAQ,GAAE,C;G;EAQ/B,MAAM,KAAK,UAAU,mBAAoB,GAAE,iB
;IACzC,OAAO,IAAI,QAAQ,CAAC,KAAD,CAAQ,IAAG,C;G;EAUhC,MAAM,KAAK,UAAU,QAAS,GAAE,iB;I
AC9B,IAAI,IAAI,WAAW,CAAC,KAAD,CAAnB,C;MACE,OAAO,C;KAGT,IAAI,UAAU,IAAI,WAAW,E;IAC7
B,IAAI,WAAW,KAAK,WAAW,E;IAC/B,IAI,OAAQ,IAAG,CAAC,QAAhB,C;MACE,OAAO,E;KAET,IAAI,C
AAC,OAAQ,IAAG,QAAhB,C;MACE,OAAO,C;KAIT,IAAI,IAAI,SAAS,CAAC,KAAD,CAAO,WAAW,EAAnC,
C;MACE,OAAO,E;;MAEP,OAAO,C;;G;EAMX,MAAM,KAAK,UAAU,OAAQ,GAAE,Y;IAC7B,IAAI,IAAI,WA
AW,CAAC,MAAM,KAAK,UAAZ,CAAnB,C;MACE,OAAO,MAAM,KAAK,U;;MAElB,OAAO,IAAI,IAAI,EAA
E,IAAI,CAAC,MAAM,KAAK,IAAZ,C;;G;EAUzB,MAAM,KAAK,UAAU,IAAK,GAAE,iB;IAG1B,IAAI,MAAM
,IAAI,MAAO,KAAI,E;IACzB,IAAI,MAAM,IAAI,MAAO,GAAE,K;IACvB,IAAI,MAAM,IAAI,KAAM,KAAI,E;I
ACxB,IAAI,MAAM,IAAI,KAAM,GAAE,K;IAEtB,IAAI,MAAM,KAAK,MAAO,KAAI,E;IAC1B,IAAI,MAAM,K
AAK,MAAO,GAAE,K;IACxB,IAAI,MAAM,KAAK,KAAM,KAAI,E;IACzB,IAAI,MAAM,KAAK,KAAM,GAA
E,K;IAEvB,IAAI,MAAM,CAAV,EAAa,MAAM,CAAnB,EAAsB,MAAM,CAA5B,EAA+B,MAAM,C;IACrC,GA
AI,IAAG,GAAI,GAAE,G;IACb,GAAI,IAAG,GAAI,KAAI,E;IACf,GAAI,IAAG,K;IACP,GAAI,IAAG,GAAI,GA
AE,G;IACb,GAAI,IAAG,GAAI,KAAI,E;IACf,GAAI,IAAG,K;IACP,GAAI,IAAG,GAAI,GAAE,G;IACb,GAAI,I
AAG,GAAI,KAAI,E;IACf,GAAI,IAAG,K;IACP,GAAI,IAAG,GAAI,GAAE,G;IACb,GAAI,IAAG,K;IACP,OAAO
,MAAM,KAAK,SAAS,CAAE,GAAI,IAAG,EAAI,GAAE,GAAf,EAAqB,GAAI,IAAG,EAAI,GAAE,GAAlC,C;G;
EAS7B,MAAM,KAAK,UAAU,SAAU,GAAE,iB;IAC/B,OAAO,IAAI,IAAI,CAAC,KAAK,OAAO,EAAb,C;G;EA
SjB,MAAM,KAAK,UAAU,SAAU,GAAE,iB;IAC/B,IAAI,IAAI,OAAO,EAAf,C;MACE,OAAO,MAAM,KAAK,K
;WACb,IAAI,KAAK,OAAO,EAAhB,C;MACL,OAAO,MAAM,KAAK,K;KAGpB,IAAI,IAAI,WAAW,CAAC,M
AAM,KAAK,UAAZ,CAAnB,C;MACE,OAAO,KAAK,MAAM,EAAG,GAAE,MAAM,KAAK,UAAb,GAA0B,M
AAM,KAAK,K;WACrD,IAAI,KAAK,WAAW,CAAC,MAAM,KAAK,UAAZ,CAApB,C;MACL,OAAO,IAAI,M
AAM,EAAG,GAAE,MAAM,KAAK,UAAb,GAA0B,MAAM,KAAK,K;KAG3D,IAAI,IAAI,WAAW,EAAnB,C;M
ACE,IAAI,KAAK,WAAW,EAApB,C;QACE,OAAO,IAAI,OAAO,EAAE,SAAS,CAAC,KAAK,OAAO,EAAb,C;;
QAE7B,OAAO,IAAI,OAAO,EAAE,SAAS,CAAC,KAAD,CAAO,OAAO,E;;WAExC,IAAI,KAAK,WAAW,EAAp
B,C;MACL,OAAO,IAAI,SAAS,CAAC,KAAK,OAAO,EAAb,CAAgB,OAAO,E;KAI7C,IAAI,IAAI,SAAS,CAAC,
MAAM,KAAK,YAAZ,CAA0B,IAAvC,KAAK,SAAS,CAAC,MAAM,KAAK,YAAZ,CADlB,C;MAEE,OAAO,M
AAM,KAAK,WAAW,CAAC,IAAI,SAAS,EAAG,GAAE,KAAK,SAAS,EAAjC,C;KAM/B,IAAI,MAAM,IAAI,M
AAO,KAAI,E;IACzB,IAAI,MAAM,IAAI,MAAO,GAAE,K;IACvB,IAAI,MAAM,IAAI,KAAM,KAAI,E;IACxB,I
AAI,MAAM,IAAI,KAAM,GAAE,K;IAEtB,IAAI,MAAM,KAAK,MAAO,KAAI,E;IAC1B,IAAI,MAAM,KAAK,
MAAO,GAAE,K;IACxB,IAAI,MAAM,KAAK,KAAM,KAAI,E;IACzB,IAAI,MAAM,KAAK,KAAM,GAAE,K;I
AEvB,IAAI,MAAM,CAAV,EAAa,MAAM,CAAnB,EAAsB,MAAM,CAA5B,EAA+B,MAAM,C;IACrC,GAAI,IA
AG,GAAI,GAAE,G;IACb,GAAI,IAAG,GAAI,KAAI,E;IACf,GAAI,IAAG,K;IACP,GAAI,IAAG,GAAI,GAAE,G;I
ACb,GAAI,IAAG,GAAI,KAAI,E;IACf,GAAI,IAAG,K;IACP,GAAI,IAAG,GAAI,GAAE,G;IACb,GAAI,IAAG,G
AAI,KAAI,E;IACf,GAAI,IAAG,K;IACP,GAAI,IAAG,GAAI,GAAE,G;IACb,GAAI,IAAG,GAAI,KAAI,E;IACf,G
AAI,IAAG,K;IACP,GAAI,IAAG,GAAI,GAAE,G;IACb,GAAI,IAAG,GAAI,KAAI,E;IACf,GAAI,IAAG,K;IACP,
GAAI,IAAG,GAAI,GAAE,G;IACb,GAAI,IAAG,GAAI,KAAI,E;IACf,GAAI,IAAG,K;IACP,GAAI,IAAG,GAAI,
GAAE,GAAI,GAAE,GAAI,GAAE,GAAI,GAAE,GAAI,GAAE,GAAI,GAAE,GAAI,GAAE,G;IACjD,GAAI,IAA
G,K;IACP,OAAO,MAAM,KAAK,SAAS,CAAE,GAAI,IAAG,EAAI,GAAE,GAAf,EAAqB,GAAI,IAAG,EAAI,G
AAE,GAAlC,C;G;EAS7B,MAAM,KAAK,UAAU,IAAK,GAAE,iB;IAC1B,IAAI,KAAK,OAAO,EAAhB,C;MACE
,MAAM,KAAK,CAAC,kBAAD,C;WACN,IAAI,IAAI,OAAO,EAAf,C;MACL,OAAO,MAAM,KAAK,K;KAGpB,
IAAI,IAAI,WAAW,CAAC,MAAM,KAAK,UAAZ,CAAnB,C;MACE,IAAI,KAAK,WAAW,CAAC,MAAM,KAA
K,IAAZ,CAAkB,IAClC,KAAK,WAAW,CAAC,MAAM,KAAK,QAAZ,CADpB,C;QAEE,OAAO,MAAM,KAAK,
U;aACb,IAAI,KAAK,WAAW,CAAC,MAAM,KAAK,UAAZ,CAApB,C;QACL,OAAO,MAAM,KAAK,I;;QAGlB,

IAAI,WAAW,IAAI,WAAW,CAAC,CAAD,C;QAC9B,IAAI,SAAS,QAAQ,IAAI,CAAC,KAAD,CAAO,UAAU,C
AAC,CAAD,C;QAC1C,IAAI,MAAM,WAAW,CAAC,MAAM,KAAK,KAAZ,CAArB,C;UACE,OAAO,KAAK,W
AAW,EAAG,GAAE,MAAM,KAAK,IAAb,GAAoB,MAAM,KAAK,Q;;UAEzD,IAAI,MAAM,IAAI,SAAS,CAAC,
KAAK,SAAS,CAAC,MAAD,CAAf,C;UACvB,IAAI,SAAS,MAAM,IAAI,CAAC,GAAG,IAAI,CAAC,KAAD,CA
AR,C;UACvB,OAAO,M;;;WAGN,IAAI,KAAK,WAAW,CAAC,MAAM,KAAK,UAAZ,CAApB,C;MACL,OAAO
,MAAM,KAAK,K;KAGpB,IAAI,IAAI,WAAW,EAAnB,C;MACE,IAAI,KAAK,WAAW,EAApB,C;QACE,OAAO
,IAAI,OAAO,EAAE,IAAI,CAAC,KAAK,OAAO,EAAb,C;;QAExB,OAAO,IAAI,OAAO,EAAE,IAAI,CAAC,KA
AD,CAAO,OAAO,E;;WAEnC,IAAI,KAAK,WAAW,EAApB,C;MACL,OAAO,IAAI,IAAI,CAAC,KAAK,OAAO,
EAAb,CAAgB,OAAO,E;KAQxC,IAAI,MAAM,MAAM,KAAK,K;IACrB,IAAI,MAAM,I;IACV,OAAO,GAAG,m
BAAmB,CAAC,KAAD,CAA7B,C;MAGE,IAAI,SAAS,IAAI,IAAI,CAAC,CAAD,EAAI,IAAI,MAAM,CAAC,GA
AG,SAAS,EAAG,GAAE,KAAK,SAAS,EAAhC,CAAd,C;MAIrB,IAAI,OAAO,IAAI,KAAK,CAAC,IAAI,IAAI,C
AAC,MAAD,CAAS,GAAE,IAAI,IAAxB,C;MACpB,IAAI,QAAS,IAAK,IAAG,EAAI,GAAE,CAAF,GAAM,IAAI
,IAAI,CAAC,CAAD,EAAI,IAAK,GAAE,EAAX,C;MAIvC,IAAI,YAAY,MAAM,KAAK,WAAW,CAAC,MAAD,
C;MACtC,IAAI,YAAY,SAAS,SAAS,CAAC,KAAD,C;MAClC,OAAO,SAAS,WAAW,EAAG,IAAG,SAAS,YAA
Y,CAAC,GAAD,CAAtD,C;QACE,MAAO,IAAG,K;QACV,SAAU,GAAE,MAAM,KAAK,WAAW,CAAC,MAA
D,C;QAClC,SAAU,GAAE,SAAS,SAAS,CAAC,KAAD,C;;MAKhC,IAAI,SAAS,OAAO,EAApB,C;QACE,SAAU,
GAAE,MAAM,KAAK,I;OAGzB,GAAI,GAAE,GAAG,IAAI,CAAC,SAAD,C;MACb,GAAI,GAAE,GAAG,SAAS,
CAAC,SAAD,C;;IAEpB,OAAO,G;G;EAST,MAAM,KAAK,UAAU,OAAQ,GAAE,iB;IAC7B,OAAO,IAAI,SAAS,
CAAC,IAAI,IAAI,CAAC,KAAD,CAAO,SAAS,CAAC,KAAD,CAAzB,C;G;EAKtB,MAAM,KAAK,UAAU,IAA
K,GAAE,Y;IAC1B,OAAO,MAAM,KAAK,SAAS,CAAC,CAAC,IAAI,KAAN,EAAa,CAAC,IAAI,MAAlB,C;G;E
AS7B,MAAM,KAAK,UAAU,IAAK,GAAE,iB;IAC1B,OAAO,MAAM,KAAK,SAAS,CAAC,IAAI,KAAM,GAAE
,KAAK,KAAlB,EACI,IAAI,MAAO,GAAE,KAAK,MADtB,C;G;EAU7B,MAAM,KAAK,UAAU,GAAI,GAAE,iB
;IACzB,OAAO,MAAM,KAAK,SAAS,CAAC,IAAI,KAAM,GAAE,KAAK,KAAlB,EACI,IAAI,MAAO,GAAE,K
AAK,MADtB,C;G;EAU7B,MAAM,KAAK,UAAU,IAAK,GAAE,iB;IAC1B,OAAO,MAAM,KAAK,SAAS,CAAC
,IAAI,KAAM,GAAE,KAAK,KAAlB,EACI,IAAI,MAAO,GAAE,KAAK,MADtB,C;G;EAU7B,MAAM,KAAK,U
AAU,UAAW,GAAE,mB;IAChC,OAAQ,IAAG,E;IACX,IAAI,OAAQ,IAAG,CAAf,C;MACE,OAAO,I;;MAEP,IA
AI,MAAM,IAAI,K;MACd,IAAI,OAAQ,GAAE,EAAd,C;QACE,IAAI,OAAO,IAAI,M;QACf,OAAO,MAAM,KA
AK,SAAS,CACvB,GAAI,IAAG,OADgB,EAEtB,IAAK,IAAG,OAAS,GAAG,GAAI,KAAK,EAAG,GAAE,OAFZ,
C;;QAI3B,OAAO,MAAM,KAAK,SAAS,CAAC,CAAD,EAAI,GAAI,IAAI,OAAQ,GAAE,EAAtB,C;;;G;EAWjC,
MAAM,KAAK,UAAU,WAAY,GAAE,mB;IACjC,OAAQ,IAAG,E;IACX,IAAI,OAAQ,IAAG,CAAf,C;MACE,OA
AO,I;;MAEP,IAAI,OAAO,IAAI,M;MACf,IAAI,OAAQ,GAAE,EAAd,C;QACE,IAAI,MAAM,IAAI,K;QACd,OA
AO,MAAM,KAAK,SAAS,CACtB,GAAI,KAAI,OAAS,GAAG,IAAK,IAAI,EAAG,GAAE,OADZ,EAEvB,IAAK,I
AAG,OAFe,C;;QAI3B,OAAO,MAAM,KAAK,SAAS,CACvB,IAAK,IAAI,OAAQ,GAAE,EADI,EAEvB,IAAK,IA
AG,CAAE,GAAE,CAAF,GAAM,EAFO,C;;;G;EAejC,MAAM,KAAK,UAAU,mBAAoB,GAAE,mB;IACzC,OAA
Q,IAAG,E;IACX,IAAI,OAAQ,IAAG,CAAf,C;MACE,OAAO,I;;MAEP,IAAI,OAAO,IAAI,M;MACf,IAAI,OAAQ,
GAAE,EAAd,C;QACE,IAAI,MAAM,IAAI,K;QACd,OAAO,MAAM,KAAK,SAAS,CACtB,GAAI,KAAI,OAAS,G
AAG,IAAK,IAAI,EAAG,GAAE,OADZ,EAEvB,IAAK,KAAI,OAFc,C;aAGtB,IAAI,OAAQ,IAAG,EAAf,C;QACL
,OAAO,MAAM,KAAK,SAAS,CAAC,IAAD,EAAO,CAAP,C;;QAE3B,OAAO,MAAM,KAAK,SAAS,CAAC,IAA
K,KAAK,OAAQ,GAAE,EAArB,EAA0B,CAA1B,C;;;G;EAMjC,MAAM,KAAK,UAAU,OAAQ,GAAE,iB;IAC3B,
OAAO,KAAM,YAAW,MAAM,KAAM,IAAG,IAAI,WAAW,CAAC,KAAD,C;G;EAG1D,MAAM,KAAK,UAAU,
gBAAiB,GAAE,MAAM,KAAK,UAAU,Q;EAE7D,MAAM,KAAK,UAAU,IAAK,GAAE,Y;IACxB,OAAO,IAAI,I
AAI,CAAC,MAAM,KAAK,IAAZ,C;G;EAGnB,MAAM,KAAK,UAAU,IAAK,GAAE,Y;IACxB,OAAO,IAAI,IAA
I,CAAC,MAAM,KAAK,QAAZ,C;G;EAGnB,MAAM,KAAK,UAAU,QAAS,GAAE,Y;IAC5B,OAAO,IAAI,SAAS
,E;G;EAGxB,MAAM,KAAK,UAAU,UAAW,GAAE,Y;IAC9B,OAAO,I;G;EAGX,MAAM,KAAK,UAAU,WAAY,
GAAE,MAAM,KAAK,UAAU,O;EACxD,MAAM,KAAK,UAAU,IAAK,GAAE,MAAM,KAAK,UAAU,I;EAEjD,
MAAM,KAAK,UAAU,QAAS,GAAE,iB;IAC5B,OAAO,IAAI,MAAM,OAAO,OAAO,UAAAxB,CAAAmC,IAAAnC,E
AAyC,KAAAzC,C;G;EC1zBX,MAAM,aAAAc,GAAAE,2B;G;EAGtB,MAAM,qBAAAsB,GAAAE,oB;IAC1B,OAAO,G;
G;EAGX,MAAM,aAAAc,GAAAE,e;IAClB,IAAI,IAAI,Y;MACJ,CAAAE,GAAAE,GAAAG,E;MACP,OAAO,CAAAC,MA

AM,CAAC,IAAD,EAAO,SAAP,C;K;IAElB,OAAO,Y;MACH,OAAO,CAAC,MAAM,CAAC,IAAD,EAAO,SAAP
,C;K;G;EAItB,MAAM,SAAU,GAAE,gB;IACd,OAAO,kB;MACH,OAAO,OAAO,MAAO,KAAI,I;K;G;EAIjC,MA
AM,aAAc,GAAE,iB;IAClB,OAAO,kB;MACH,OAAO,MAAM,OAAO,CAAC,MAAD,EAAS,KAAT,C;K;G;EAI5
B,MAAM,OAAQ,GAAE,c;IACZ,OAAO,kB;MACH,OAAO,MAAO,IAAG,IAAK,IAAG,EAAE,CAAC,MAAD,C;
K;G;EAInC,MAAM,aAAc,GAAE,gB;IAClB,OAAO,kB;MACH,OAAO,CAAC,CAAC,MAAD,CAAS,IAAG,CAA
C,CAAC,MAAD,C;K;G;EAI7B,MAAM,qBAAsB,GAAE,wC;G;EAG9B,MAAM,YAAa,GAAE,iB;IACjB,OAAO,
K;G;EAGX,MAAM,gBAAiB,GAAE,qB;IACrB,gBAAgB,E;G;EAGpB,MAAM,oBAAqB,GAAE,qB;IACzB,gBA
AgB,E;G;EAGpB,MAAM,kBAAmB,GAAE,qB;IACvB,gBAAgB,E;G;EAGpB,MAAM,mBAAoB,GAAE,4B;IACx
B,gBAAgB,E;G;EAGpB,MAAM,6BAA8B,GAAE,yB;IAClC,gBAAgB,E;G;EAGpB,4B;IACI,MAAM,IAAI,KAAJ
,CACF,iDAAkD,GAClD,qDAAsD,GACtD,uDAHE,C;G;EAMV,MAAM,gBAAiB,GAAE,4B;IACrB,OAAO,Y;M
ACH,OAAO,Y;K;G;ECjFf,MAAM,UAAW,GAAE,gB;IACf,IAAI,QAAQ,OAAO,C;IACnB,IAAI,KAAM,KAAI,Q
AAd,C;MACI,IAAI,OAAO,CAAE,KAAI,QAAjB,C;QACI,OAAO,MAAM,gBAAgB,CAAC,CAAD,EAAI,CAAJ,
C;OAEjC,OAAO,MAAM,mBAAmB,CAAC,CAAD,EAAI,CAAJ,C;KAEpC,IAAI,KAAM,KAAI,QAAS,IAAG,K
AAM,KAAI,SAApC,C;MACI,OAAO,MAAM,mBAAmB,CAAC,CAAD,EAAI,CAAJ,C;KAEpC,OAAO,CAAC,g
BAAgB,CAAC,CAAD,C;G;EAG5B,MAAM,mBAAoB,GAAE,gB;IACxB,OAAO,CAAE,GAAE,CAAE,GAAE,E
AAF,GAAO,CAAE,GAAE,CAAE,GAAE,CAAF,GAAM,C;G;EAGpC,MAAM,gBAAiB,GAAE,gB;IACrB,IAAI,C
AAE,GAAE,CAAR,C;MAAW,OAAO,E;IAClB,IAAI,CAAE,GAAE,CAAR,C;MAAW,OAAO,C;IAElB,IAAI,CA
AE,KAAI,CAAV,C;MACI,IAAI,CAAE,KAAI,CAAV,C;QAAa,OAAO,C;MAEpB,IAAI,KAAK,CAAE,GAAE,C;
MACb,OAAO,EAAG,KAAI,CAAE,GAAE,CAAE,GAAE,CAAF,GAAO,EAAG,GAAE,CAAE,GAAE,EAAF,GA
AO,C;KAG7C,OAAO,CAAE,KAAI,CAAE,GAAG,CAAE,KAAI,CAAE,GAAE,CAAF,GAAM,CAAjB,GAAsB,E
;G;EAGzC,MAAM,QAAS,GAAE,iB;IACb,OAAO,MAAM,OAAO,CAAC,KAAK,GAAC,CAAP,C;G;EAGxB,M
AAM,QAAS,GAAE,iB;IACb,OAAO,MAAM,OAAO,CAAC,KAAK,GAAC,CAAP,C;G;EAGxB,MAAM,KAAM,
GAAE,IAAI,KAAM,IAAG,I;EAE3B,MAAM,aAAc,GAAE,I;EAEtB,oB;IACI,OAAyB,CAAhB,CAAE,GAAE,YA
AY,KAAG,CAAE,GAAE,KAAP,CAAe,GAAe,CAAZ,CAAE,GAAE,KAAQ,KAAG,CAAE,GAAE,CAAP,CAAW
,GAAE,C;G;EA6DtE,CA1DD,Y;IACG,IAAI,MAAM,IAAI,WAAJ,CAAgB,CAAhB,C;IACV,IAAI,aAAa,IAAI,Y
AAJ,CAAiB,GAAjB,C;IACjB,IAAI,aAAa,IAAI,YAAJ,CAAiB,GAAjB,C;IACjB,IAAI,WAAW,IAAI,UAAJ,CAA
e,GAAf,C;IACf,IAAI,WAAW,C;IACf,IAAI,YAAY,C;IAEhB,UAAU,CAAC,CAAD,CAAI,GAAE,E;IAChB,IAAI,
QAAQ,CAAC,QAAD,CAAW,KAAI,CAA3B,C;MACI,QAAS,GAAE,C;MACX,SAAU,GAAE,C;KAGhB,MAAM
,aAAc,GAAE,iB;MAClB,OAAO,MAAM,gBAAgB,CAAC,KAAK,CAAC,KAAD,CAAQ,GAAE,GAAF,GAAQ,K
AAtB,C;K;IAGjC,MAAM,gBAAiB,GAAE,iB;MACrB,UAAU,CAAC,CAAD,CAAI,GAAE,K;MAChB,OAAO,M
AAM,KAAK,SAAS,CAAC,QAAQ,CAAC,QAAD,CAAT,EAAAqB,QAAQ,CAAC,SAAD,CAA7B,C;K;IAG/B,MA
AM,eAAgB,GAAE,iB;MACpB,QAAQ,CAAC,QAAD,CAAW,GAAE,KAAK,K;MAC1B,QAAQ,CAAC,SAAD,C
AAY,GAAE,KAAK,M;MAC3B,OAAO,UAAU,CAAC,CAAD,C;K;IAGrB,MAAM,YAAa,GAAE,iB;MACjB,OA
AO,MAAM,eAAe,CAAC,KAAK,CAAC,KAAD,CAAQ,GAAE,GAAF,GAAQ,KAAtB,C;K;IAGhC,MAAM,eAAg
B,GAAE,iB;MACpB,UAAU,CAAC,CAAD,CAAI,GAAE,K;MAChB,OAAO,QAAQ,CAAC,CAAD,C;K;IAGnB,
MAAM,cAAe,GAAE,iB;MACnB,QAAQ,CAAC,CAAD,CAAI,GAAE,K;MACd,OAAO,UAAU,CAAC,CAAD,C;
K;IAIrB,MAAM,cAAe,GAAE,iB;MACnB,UAAU,CAAC,CAAD,CAAI,GAAE,K;MAChB,OAAO,QAAQ,CAAC,
SAAD,CAAY,GAAE,a;K;IAGjC,MAAM,eAAgB,GAAE,e;MACpB,IAAc,CAAT,GAAI,GAAE,CAAG,MAAI,GA
AlB,C;QACI,OAAO,GAAI,GAAE,C;;QAGb,UAAU,CAAC,CAAD,CAAI,GAAE,G;QAChB,OAAsC,CAA9B,QA
AQ,CAAC,SAAD,CAAY,GAAE,EAAG,GAAE,CAAG,IAAE,QAAQ,CAAC,QAAD,CAAW,GAAE,C;;K;GAGvE
,G;EAEF,MAAM,cAAe,GAAE,a;IACnB,OAAO,CAAE,IAAG,IAAK,GAAE,CAAF,GAAM,MAAM,SAAS,E;G;E
C7G1C,IAAI,OAAO,MAAM,UAAU,WAAY,KAAI,WAA3C,C;IACI,MAAM,eAAe,CAAC,MAAM,UAAP,EAA
mB,YAAnB,EAAAiC,QAC3C,kC;MACH,QAAS,GAAE,QAAS,IAAG,C;MACvB,OAAO,IAAI,YAAY,CAAC,YA
AD,EAAe,QAAf,CAAyB,KAAI,Q;KAHN,CAAjC,C;GAOzB,IAAI,OAAO,MAAM,UAAU,SAAU,KAAI,WAAzC
,C;IACI,MAAM,eAAe,CAAC,MAAM,UAAP,EAAAmB,UAAnB,EAA+B,QACzC,kC;MACH,IAAI,gBAAgB,IAAI
,SAAS,E;MACjC,IAAI,QAAS,KAAI,SAAU,IAAG,QAAS,GAAE,aAAa,OAAtD,C;QACI,QAAS,GAAE,aAAa,O;
OAE5B,QAAS,IAAG,YAAY,O;MACxB,IAAI,YAAY,aAAa,QAAQ,CAAC,YAAD,EAAe,QAAf,C;MACrC,OAA
O,SAAU,KAAI,EAAG,IAAG,SAAU,KAAI,Q;KARG,CAA/B,C;GAazB,IAAI,OAAO,IAAI,KAAM,KAAI,WAAz

B,C;IACI,IAAI,KAAM,GAAE,a;MACR,CAAE,GAAE,CAAC,C;MACL,IAAI,CAAE,KAAI,CAAE,IAAG,KAAK
,CAAC,CAAD,CAApB,C;QACI,OAAO,MAAM,CAAC,CAAD,C;OAEjB,OAAO,CAAE,GAAE,CAAE,GAAE,C
AAF,GAAM,E;K;GAG3B,IAAI,OAAO,IAAI,MAAO,KAAI,WAA1B,C;IACI,IAAI,MAAO,GAAE,a;MACT,IAAI
,KAAK,CAAC,CAAD,CAAT,C;QACI,OAAO,G;OAEX,IAAI,CAAE,GAAE,CAAR,C;QACI,OAAO,IAAI,MAA
M,CAAC,CAAD,C;OAErB,OAAO,IAAI,KAAK,CAAC,CAAD,C;K;GAuKtB,CAnKD,Y;IACG,IAAI,UAAU,qB;I
ACd,IAAI,iBAAiB,IAAI,KAAK,CAAC,OAAD,C;IAC9B,IAAI,iBAAiB,IAAI,KAAK,CAAC,cAAD,C;IAC9B,IA
AI,uBAAuB,CAAC,GAAC,c;IAC7B,IAAI,uBAAuB,CAAC,GAAC,c;IAE7B,IAAI,OAAO,IAAI,KAAM,KAAI,W
AAzB,C;MACI,IAAI,KAAM,GAAE,a;QACR,IAAI,IAAI,IAAI,CAAC,CAAD,CAAI,GAAE,cAAlB,C;UACI,IAAI
,SAAS,C;UACb,IAAI,IAAI,IAAI,CAAC,CAAD,CAAI,GAAE,cAAlB,C;YACI,MAAO,IAAI,CAAE,GAAE,CAA
E,GAAE,CAAG,GAAE,C;WAE5B,OAAO,M;;UAEP,IAAI,IAAI,IAAI,IAAI,CAAC,CAAD,C;UAChB,IAAI,KAA
K,CAAE,GAAE,C;UACb,IAAI,CAAC,QAAQ,CAAC,CAAD,CAAb,C;YAAkB,OAAO,IAAI,IAAI,CAAC,CAAE,
GAAE,IAAI,IAAT,C;UACjC,IAAI,CAAC,QAAQ,CAAC,EAAD,CAAb,C;YAAmB,OAAO,CAAC,IAAI,IAAI,CA
AC,CAAC,CAAE,GAAE,IAAI,IAAV,C;UACnC,OAAgB,CAAR,CAAE,GAAE,EAAI,IAAE,C;;O;KAI9B,IAAI,O
AAO,IAAI,KAAM,KAAI,WAAzB,C;MACI,IAAI,KAAM,GAAE,a;QACR,IAAI,IAAI,IAAI,IAAI,CAAC,CAAD,
C;QAChB,IAAI,KAAK,CAAE,GAAE,C;QACb,IAAI,CAAC,QAAQ,CAAC,CAAD,CAAI,IAAG,CAAC,QAAQ,C
AAC,EAAD,CAA7B,C;UAAmC,OAAO,IAAI,IAAI,CAAC,IAAI,IAAI,CAAC,CAAD,CAAI,GAAE,IAAI,IAAnB,
C;QAClD,OAAgB,CAAR,CAAE,GAAE,EAAI,IAAE,C;O;KAI1B,IAAI,OAAO,IAAI,KAAM,KAAI,WAAzB,C;
MACI,IAAI,KAAM,GAAE,a;QACR,IAAI,IAAI,IAAI,CAAC,CAAD,CAAI,GAAE,cAAlB,C;UACI,IAAI,SAAS,C
;UACb,IAAI,IAAI,IAAI,CAAC,CAAD,CAAI,GAAE,cAAlB,C;YACI,MAAO,IAAI,CAAE,GAAE,CAAE,GAAE,
CAAG,GAAE,C;WAE5B,OAAO,M;;UAGP,IAAI,IAAI,IAAI,IAAI,CAAC,CAAC,CAAF,CAAhB,EAAsB,IAAI,I
AAI,IAAI,CAAC,CAAC,CAAF,C;UAClC,OAAO,CAAE,KAAI,QAAS,GAAE,CAAF,GAAM,CAAE,KAAI,QAA
S,GAAE,EAAF,GAAe,CAAP,CAAE,GAAE,CAAG,KAAG,CAAE,GAAE,CAAP,C;;O;KAQtE,IAAI,OAAO,IAAI
,MAAO,KAAI,WAA1B,C;MACI,IAAI,QAAQ,a;QACR,IAAI,CAAE,IAAG,CAAC,cAAV,C;UAEI,IAAI,CAAE,G
AAE,oBAAR,C;YAEI,IAAI,CAAE,GAAE,oBAAR,C;cAGI,OAAO,IAAI,IAAI,CAAC,CAAD,CAAI,GAAE,IAAI,
I;;cAKzB,OAAO,IAAI,IAAI,CAAC,CAAE,GAAE,CAAE,GAAG,CAAE,IAAG,CAAE,GAAE,CAAP,CAAZ,C;;;
YAKnB,OAAO,IAAI,IAAI,CAAC,CAAE,GAAE,IAAI,KAAK,CAAC,CAAE,GAAE,CAAE,GAAE,CAAT,CAAd
,C;;eAGlB,IAAI,CAAE,IAAG,CAAC,cAAV,C;UAED,OAAO,CAAC,KAAK,CAAC,CAAC,CAAF,C;;UAKb,IAA
I,SAAS,C;UACb,IAAI,IAAI,IAAI,CAAC,CAAD,CAAI,IAAG,cAAnB,C;YAEI,IAAI,KAAK,CAAE,GAAE,CAA
E,GAAE,C;YAEjB,MAAO,IAAG,EAAG,GAAE,C;WAEnB,OAAO,M;;O;MAGf,IAAI,MAAO,GAAE,K;KAEjB,I
AAI,OAAO,IAAI,MAAO,KAAI,WAA1B,C;MACI,IAAI,MAAO,GAAE,a;QACT,IAAI,CAAE,GAAE,CAAR,C;U
AEI,OAAO,G;eAEN,IAAI,CAAE,GAAE,CAAE,IAAG,cAAb,C;UAED,IAAI,CAAE,GAAE,oBAAR,C;YAGI,OA
AO,IAAI,IAAI,CAAC,CAAD,CAAI,GAAE,IAAI,I;;YAIzB,OAAO,IAAI,IAAI,CAAC,CAAE,GAAE,IAAI,KAAK
,CAAC,CAAE,GAAE,CAAE,GAAE,CAAT,CAAd,C;;;UAKnB,IAAI,IAAI,IAAI,KAAK,CAAC,CAAE,GAAE,C
AAL,C;UAEjB,IAAI,SAAS,C;UACb,IAAI,CAAE,IAAG,cAAT,C;YAEI,IAAI,KAAK,CAAE,GAAE,CAAE,GAA
E,C;YAEjB,MAAO,IAAG,EAAG,GAAE,E;WAGnB,OAAO,IAAI,KAAK,CAAC,CAAD,CAAI,GAAE,M;;O;KAI
lC,IAAI,OAAO,IAAI,MAAO,KAAI,WAA1B,C;MACI,IAAI,MAAO,GAAE,a;QACT,IAAI,IAAI,IAAI,CAAC,CA
AD,CAAI,GAAE,cAAlB,C;UACI,IAAI,SAAS,C;UACb,IAAI,IAAI,IAAI,CAAC,CAAD,CAAI,GAAE,cAAlB,C;Y
ACI,MAAO,IAAI,CAAE,GAAE,CAAE,GAAE,CAAG,GAAE,C;WAE5B,OAAO,M;SAEX,OAAO,IAAI,IAAI,CA
AS,CAAP,CAAE,GAAE,CAAG,KAAG,CAAE,GAAE,CAAP,CAAT,CAAoB,GAAE,C;O;KAG7C,IAAI,OAAO,I
AAI,MAAO,KAAI,WAA1B,C;MACI,IAAI,MAAO,GAAE,a;QACT,IAAI,IAAI,IAAI,CAAC,CAAD,CAAI,GAAE
,cAAlB,C;UACI,IAAI,KAAK,CAAE,GAAE,C;UACb,IAAI,KAAK,EAAG,GAAE,C;UACd,IAAI,KAAK,EAAG,
GAAE,C;UAEd,OAAQ,CAAC,EAAG,GAAE,CAAE,GAAE,EAAG,GAAE,CAAE,GAAE,EAAG,GAAE,CAAE,GAAE,EAAG,GAAE,CAAE,G
AAE,C;SAExC,OAAO,IAAI,IAAI,CAAC,CAAE,GAAE,CAAL,C;O;KAGvB,IAAI,OAAO,IAAI,MAAO,KAAI,W
AA1B,C;MACI,IAAI,MAAO,GAAE,a;QACT,IAAI,IAAI,IAAI,CAAC,CAAD,CAAI,GAAE,cAAlB,C;UACI,IAAI
,KAAK,CAAE,GAAE,C;UACb,IAAI,KAAK,EAAG,GAAE,C;UACd,IAAI,KAAK,EAAG,GAAE,C;UAEd,OAAQ
,EAAG,GAAE,EAAG,GAAE,EAAG,GAAE,CAAE,GAAE,EAAG,GAAE,CAAE,GAAE,C;SAExC,OAAO,IAAI,I
AAI,CAAC,CAAD,CAAI,GAAE,C;O;MAG/B,G;EACF,IAAI,OAAO,IAAI,MAAO,KAAI,WAA1B,C;IACI,IAAI,
MAAO,GAAE,Y;MACT,IAAI,IAAI,C;MACR,IAAI,SAAS,SAAS,O;MAEtB,KAAK,IAAI,IAAI,CAAb,EAAgB,C

AAE,GAAE,MAApB,EAA4B,CAAC,EAA7B,C;QACI,IAAI,SAAS,CAAC,CAAD,CAAI,KAAI,QAAS,IAAG,SA
AS,CAAC,CAAD,CAAI,KAAI,CAAC,QAAnD,C;UACI,OAAO,Q;SAEX,CAAE,IAAG,SAAS,CAAC,CAAD,CA
AI,GAAE,SAAS,CAAC,CAAD,C;;MAEjC,OAAO,IAAI,KAAK,CAAC,CAAD,C;K;GAGxB,IAAI,OAAO,IAAI,
MAAO,KAAI,WAA1B,C;IACI,IAAI,MAAO,GAAE,a;MACT,OAAO,IAAI,IAAI,CAAC,CAAD,CAAI,GAAE,IA
AI,O;K;GAGjC,IAAI,OAAO,IAAI,KAAM,KAAI,WAAzB,C;IACI,IAAI,KAAM,GAAE,a;MACR,OAAO,IAAI,IA
AI,CAAC,CAAD,CAAI,GAAE,IAAI,M;K;GAGjC,IAAI,OAAO,IAAI,MAAO,KAAI,WAA1B,C;IACI,IAAI,MAA
O,GAAG,oB;MACV,OAAO,a;QACH,IAAI,SAAS,CAAE,KAAI,C;QACnB,IAAI,MAAO,KAAI,CAAf,C;UACI,O
AAO,E;SAEX,OAAO,EAAG,IAAG,GAAG,CAAC,MAAD,CAAS,GAAE,GAAI,GAAE,CAAvB,CAA0B,GAAE,
C;O;KAE5C,CAAC,IAAI,IAAL,EAAW,IAAI,IAAf,C;GAIN,IAAI,OAAO,WAAW,OAAQ,KAAI,WAAlC,C;IACI
,WAAW,OAAQ,GAAE,a;MACjB,OAAO,CAAE,IAAG,IAAK,IAAG,CAAC,UAAW,IAAG,IAAK,IAAG,CAAC,
UAAU,UAAW,KAAI,SAAS,UAAU,U;K;GAIhG,IAAI,OAAO,KAAK,UAAU,KAAM,KAAI,WAApC,C;IAEI,M
AAM,eAAe,CAAC,KAAK,UAAN,EAAkB,MAAlB,EAA0B,QACpC,iB;MAGH,IAAI,IAAK,IAAG,IAAZ,C;QAC
I,MAAM,IAAI,SAAJ,CAAc,6BAAd,C;OAGV,IAAI,IAAI,MAAM,CAAC,IAAD,C;MAGd,IAAI,MAAM,CAAC,
OAAQ,KAAI,C;MAGvB,IAAI,QAAQ,SAAS,CAAC,CAAD,C;MACrB,IAAI,gBAAAgB,KAAAM,IAAAG,C;MAG7B,
IAAI,IAAI,aAAc,GAAE,CAAE,GAClB,IAAI,IAAI,CAAC,GAAI,GAAE,aAAP,EAAAsB,CAAAtB,CADU,GAElB,I
AAI,IAAI,CAAC,aAAD,EAAAgB,GAAAhB,C;MAGhB,IAAI,MAAM,SAAS,CAAC,CAAD,C;MACnB,IAAI,cAAc,
GAAI,KAAI,SAAU,GAClB,GADkB,GACZ,GAAI,IAAG,C;MAG/B,IAAI,aAAa,WAAY,GAAE,CAAE,GAChB,I
AAI,IAAI,CAAC,GAAI,GAAE,WAAP,EAAoB,CAApB,CADQ,GAEhB,IAAI,IAAI,CAAC,WAAD,EAAc,GAAd,
C;MAGzB,OAAO,CAAE,GAAE,UAAX,C;QACI,CAAC,CAAC,CAAD,CAAI,GAAE,K;QACP,CAAC,E;;MAIL,
OAAO,C;KAvCgC,CAA1B,C;GA4HvB,CAhFD,Y;IACG,yC;MACI,IAAI,MAAO,GAAE,CAAb,C;QAAgB,OAA
O,IAAI,IAAI,CAAC,CAAD,EAAI,MAAO,GAAE,MAAb,C;MAC/B,OAAO,IAAI,IAAI,CAAC,MAAD,EAAS,M
AAT,C;K;IAEnB,qC;MACI,IAAI,OAAO,GAAI,KAAI,WAAnB,C;QACI,GAAI,GAAE,IAAI,O;OAEd,KAAM,GA
AE,eAAe,CAAC,KAAM,IAAG,CAAV,EAAAa,IAAI,OAAjB,C;MACvB,GAAI,GAAE,IAAI,IAAI,CAAC,KAAD,E
AAQ,eAAe,CAAC,GAAD,EAAM,IAAI,OAAV,CAAvB,C;MACd,OAAO,IAAI,IAAI,YAAR,CAAqB,IAAI,SAAS
,CAAC,KAAD,EAAQ,GAAR,CAAlC,C;K;IAGX,IAAI,SAAS,CAAC,SAAD,EAAY,UAAZ,EAAAwB,WAAxB,EA
AqC,UAArC,EAAiD,YAAjD,EAA+D,YAA/D,C;IACb,KAAK,IAAI,IAAI,CAAb,EAAgB,CAAE,GAAE,MAAM,
OAA1B,EAAmC,EAAE,CAArC,C;MACI,IAAI,aAAa,MAAM,CAAC,CAAD,C;MACvB,IAAI,OAAO,UAAU,UA
AU,KAAM,KAAI,WAAzC,C;QACI,MAAM,eAAe,CAAC,UAAU,UAAX,EAAAuB,MAAAvB,EAAA+B,QACzC,KA
AK,UAAU,KAD0B,CAA/B,C;OAIzB,IAAI,OAAO,UAAU,UAAU,MAAO,KAAI,WAA1C,C;QACI,MAAM,eAA
e,CAAC,UAAU,UAAX,EAAAuB,OAAAvB,EAAAgC,QAC1C,eAD0C,CAAhC,C;;;MAQJ,CAApB,Y;OAAc,MAAM,
CAAC,IAAD,EAAO,IAAI,UAAJ,CAAe,CAAf,CAAP,E;;MAErB,IAAI,QAAQ,QAAQ,UAAU,M;MAC9B,MAA
M,eAAe,CAAC,QAAQ,UAAT,EAAAqB,OAArB,EAA8B,QACxC,uB;QACH,OAAO,KAAK,KAAK,CAAC,IAAD,
EAAO,IAAP,EAAAa,EAAAE,MAAAM,KAAAK,CAAC,KAAD,CAA1B,C;OAF0B,CAA9B,C;;IASzB,KAAK,IAAI,IA
AI,CAAb,EAAgB,CAAE,GAAE,MAAM,OAA1B,EAAmC,EAAE,CAArC,C;MACI,IAAI,aAAa,MAAM,CAAC,C
AAD,C;MACvB,IAAI,OAAO,UAAU,UAAU,IAAK,KAAI,WAAxC,C;QACI,MAAM,eAAe,CAAC,UAAU,UAA
X,EAAAuB,KAAAvB,EAAA8B,QACxC,0B;UACH,OAAO,EAAE,MAAM,KAAK,CAAC,IAAD,CAAM,IAAI,CAAC,
QAAD,EAAAW,IAAAX,C;SAFa,CAA9B,C;;IAU7B,IAAI,uBAAAuB,gB;MACvB,IAAI,CAAE,GAAE,CAAAR,C;QAA
W,OAAO,E;MAClB,IAAI,CAAE,GAAE,CAAAR,C;QAAAW,OAAO,C;MAElB,IAAI,CAAE,KAAI,CAAAV,C;QACI,
IAAI,CAAE,KAAI,CAAAV,C;UAAAa,OAAO,C;QAEpB,IAAI,KAAK,CAAE,GAAE,C;QACb,OAAO,EAAAG,KAAAI,
CAAE,GAAE,CAAE,GAAE,CAAAF,GAAAO,EAAAG,GAAAE,CAAE,GAAE,EAAAF,GAAAO,C;OAG7C,OAAO,CAAE,
KAAI,CAAE,GAAAG,CAAE,KAAI,CAAE,GAAE,CAAAF,GAAAM,CAAAjB,GAAAsB,E;K;IAGzC,KAAK,IAAI,IAAI,
CAAb,EAAAgB,CAAE,GAAE,MAAM,OAA1B,EAAmC,EAAE,CAArC,C;MACI,IAAI,aAAa,MAAM,CAAC,CAA
D,C;MACvB,IAAI,OAAO,UAAU,UAAU,KAAM,KAAI,WAAzC,C;QACI,MAAM,eAAe,CAAC,UAAU,UAAX,E
AAuB,MAAAvB,EAAA+B,QACzC,2B;UACH,OAAO,KAAK,UAAU,KAAK,KAAK,CAAC,IAAD,EAAO,eAAgB,I
AAG,oBAA1B,C;SAFY,CAA/B,C;;GAO/B,G;ECxXF,MAAM,KAAM,GAAE,QACH,OADG,aAEC,WAFD,UAG
F,QAHE,C;EAMd,MAAM,WAAY,GAAE,2C;IAChB,IAAI,qBAAAqB,MAAAM,yBAAAyB,CAAAC,KAAAD,EAAAQ,YA
AR,C;IACxD,IAAI,kBAAAmB,IAAAG,IAAAK,IAAAG,kBAAAkB,IAAAK,IAAAG,IAAA5D,C;MACI,OAAO,kBAAAkB,IAAAI,
KAAK,CAAC,UAAD,C;KAGtC,kBAAAmB,GAAAE,MAAAM,yBAAAyB,CAAAC,UAAAD,EAAAa,YAAAb,C;IACpD,IAAI,

kBAAmB,IAAG,IAAK,IAAG,OAAQ,IAAG,kBAA7C,C;MACI,OAAO,UAAU,CAAC,YAAD,C;KAGrB,OAAO,
MAAM,WAAW,CAAC,UAAD,EAAa,MAAM,eAAe,CAAC,KAAD,CAAlC,EAA2C,YAA3C,C;G;EAG5B,MAA
M,WAAY,GAAE,kD;IAChB,IAAI,qBAAqB,MAAM,yBAAyB,CAAC,KAAD,EAAQ,YAAR,C;IACxD,IAAI,kBA
AmB,IAAG,IAAK,IAAG,kBAAkB,IAAK,IAAG,IAA5D,C;MACI,kBAAkB,IAAI,KAAK,CAAC,UAAD,EAAa,K
AAb,C;MAC3B,M;KAGJ,kBAAmB,GAAE,MAAM,yBAAyB,CAAC,UAAD,EAAa,YAAb,C;IACpD,IAAI,kBAA
mB,IAAG,IAAK,IAAG,OAAQ,IAAG,kBAA7C,C;MACI,UAAU,CAAC,YAAD,CAAe,GAAE,K;MAC3B,M;KA
GJ,MAAM,WAAW,CAAC,UAAD,EAAa,MAAM,eAAe,CAAC,KAAD,CAAlC,EAA2C,YAA3C,EAAyD,KAAzD
,C;G;EAGrB,iD;IACI,IAAI,IAAK,KAAI,KAAb,C;MAAoB,OAAO,I;IAE3B,IAAI,WAAW,IAAI,W;IACnB,IAAI,
QAAS,IAAG,IAAhB,C;MACI,IAAI,aAAa,QAAQ,W;MACzB,KAAK,IAAI,IAAI,CAAb,EAAgB,CAAE,GAAE,U
AAU,OAA9B,EAAuC,CAAC,EAAxC,C;QACI,IAAI,0BAA0B,CAAC,UAAU,CAAC,CAAD,CAAX,EAAgB,KA
AhB,CAA9B,C;UACI,OAAO,I;;KAKnB,IAAI,iBAAiB,IAAI,UAAW,IAAG,IAAK,GAAE,MAAM,eAAe,CAAC,I
AAI,UAAL,CAAvB,GAA0C,I;IACtF,IAAI,mBAAmB,cAAe,IAAG,IAAK,GAAE,cAAc,YAAhB,GAA+B,I;IAC7
E,OAAO,gBAAiB,IAAG,IAAK,IAAG,0BAA0B,CAAC,gBAAD,EAAmB,KAAnB,C;G;EASjE,MAAM,OAAQ,G
AAE,yB;IACZ,IAAI,KAAM,KAAI,MAAd,C;MACI,QAAQ,OAAO,MAAf,C;aACS,Q;aACA,Q;aACA,S;aACA,U;
UACD,OAAO,I;gBAEP,OAAO,MAAO,YAAW,M;;KAIrC,IAAI,MAAO,IAAG,IAAK,IAAG,KAAM,IAAG,IAA
K,KAAI,OAAO,MAAO,KAAI,QAAS,IAAG,OAAO,MAAO,KAAI,UAApD,CAApC,C;MACI,OAAO,K;KAGX,I
AAI,OAAO,KAAM,KAAI,UAAW,IAAG,MAAO,YAAW,KAArD,C;MACI,OAAO,I;KAGX,IAAI,QAAQ,MAA
M,eAAe,CAAC,KAAD,C;IACjC,IAAI,cAAc,KAAM,IAAG,IAAK,GAAE,KAAK,YAAP,GAAsB,I;IACtD,IAAI,
WAAY,IAAG,IAAK,IAAG,YAAa,IAAG,WAA3C,C;MACI,IAAI,WAAW,WAAW,W;MAC1B,IAAI,QAAQ,KA
AM,KAAI,MAAM,KAAK,OAAjC,C;QACI,OAAO,MAAO,KAAI,K;QAI1B,IAAI,gBAAgB,KAAK,W;IAGzB,IA
AI,aAAc,IAAG,IAArB,C;MACI,OAAO,MAAO,YAAW,K;KAG7B,IAAI,aAAa,KAAM,KAAI,MAAM,KAAK,U
AAW,IAAG,MAAM,YAAa,IAAG,IAA1E,C;MACI,OAAO,0BAA0B,CAAC,MAAM,YAAP,EAAqB,KAArB,C;K
AGrC,OAAO,K;G;EAGX,MAAM,SAAU,GAAE,a;IACd,OAAO,OAAO,CAAE,IAAG,QAAS,IAAG,CAAE,YAA
W,MAAM,K;G;EAGtD,MAAM,OAAQ,GAAE,iB;IACZ,OAAO,KAAM,YAAW,MAAM,U;G;EAGlC,MAAM,aA
Ac,GAAE,iB;IAClB,IAAI,OAAO,OAAO,K;IAElB,OAAO,IAAK,KAAI,QAAS,IAClB,IAAK,KAAI,SAAU,IACn
B,MAAM,SAAS,CAAC,KAAD,CAAQ,IACvB,MAAM,OAAO,CAAC,KAAD,EAAQ,MAAM,OAAO,WAArB,C;
G;EAGxB,MAAM,eAAgB,GAAE,iB;IACpB,OAAO,OAAO,KAAM,KAAI,QAAS,IAAG,MAAM,OAAO,CAAC,
KAAD,EAAQ,MAAM,OAAO,aAArB,C;G;;;;;;;;;aCnDV,gB;;;;ICrE3C,gB;MAkBI,4B;MAjBA,aAA6C,E;MAC7C,
gBAAgD,C;K;4EAG5C,Y;MAAQ,iB;K;+EAGR,Y;MAAQ,oB;K;qCAEZ,iB;MAAyC,OAAQ,0BAAR,YAAQ,EA
AU,KAAM,QAAhB,C;K;4BAEjD,iB;MAAmC,gBAAS,K;K;8BAE5C,Y;MAA+B,OAAnC,MAAmC,kBAA8B,IA
A9B,C;K;8BAE/B,Y;MAA0B,gB;K;IAE1B,0B;MAAA,8B;K;;;IAAA,sC;MAAA,qC;QAAA,oB;OAAA,8B;K;;IDf
J,mC;MAC4C,oBAAa,MAAS,IAAT,CAAb,EAA6B,SAA7B,C;K;gEAE5C,yB;MAAA,mB;MAAA,6B;QAC2D,Y
AAa,QAAS,IAAT,C;QAIvD,Q;QAAA,OAAA,KAAM,OAAN,GAAa,CAAb,I;QAAb,aAAU,CAAV,iB;UACI,MA
AM,CAAN,IALgF,IAKrE,CAAK,CAAL,C;;QALwC,OAOhD,K;O;KARX,C;gEAGA,uB;MAEiB,Q;MAAAA,OAA
A,KAAM,OAAN,GAAa,CAAb,I;MAAb,aAAU,CAAV,iB;QACI,MAAM,CAAN,IAAW,KAAK,CAAL,C;;MAEf,
OAAO,K;K;IAGX,kC;MAIiB,IAAN,I;MAFP,aAAsB,MAAe,IAAf,C;MACtB,gBAAkB,c;MAEd,IADS,IACT,mB
ADS,IACT,EAAM,IAAN,E;QAAc,oBAAa,MAAb,EAAqB,KAArB,C;WACd,WAFS,IAET,S;QAAS,a;;QAZA,U;
QAAA,SAaqB,MAbf,OAAN,GAAa,CAAb,I;QAAb,aAAU,CAAV,mB;UAakC,MAZ9B,CAAM,CAAN,IAYsC,IA
Z3B,CAAK,CAAL,C;;QAYH,OAAsB,M;;MAHlC,W;K;2EAOJ,yB;MAAA,iC;MAAA,6B;QACoF,YAAa,aAAa,I
AAb,EAAmB,KAAnB,C;QAlBhF,Q;QAAA,OAAA,KAAM,OAAN,GAAa,CAAb,I;QAAb,aAAU,CAAV,iB;UACI
,MAAM,CAAN,IAiBoH,IAjBzG,CAAK,CAAL,C;;QAiBiE,OAfzE,K;O;KAcX,C;IAGA,+B;MAKiB,IAAN,I;MAF
P,aAAa,IAAb,WAAa,CAAD,IAAC,C;MACb,gBAAkB,W;MAEd,IADS,IACT,mBADS,IACT,EAAM,IAAN,YAD
S,IACT,EAAY,KAAZ,E;QAAqB,a;;QA1BZ,U;QAAAA,SA2BkB,MA3BZ,OAAN,GAAa,CAAb,I;QAAb,aAAU,CA
AV,mB;UA2B+B,MA1B3B,CAAM,CAAN,IA0BmC,IA1BxB,CAAK,CAAL,C;;QA0BH,OAAmB,M;;MAF/B,W;
K;qEAMJ,yB;MAAA,2B;MAAA,gC;MAAA,6B;QAGiB,Q;QADb,YAAY,UAAU,IAAV,EAAgB,IAAhB,C;QACC
,OAAA,KAAM,OAAN,GAAa,CAAb,I;QAAb,aAAU,CAAV,iB;UACI,YACY,eAAK,CAAL,E;UACpB,KAAK,CA
AC,CAAD,CAAG,GAAG,K;;QAEP,OAAO,K;O;KARX,C;mFAWA,yB;MAAA,mB;MAAA,gC;MAAA,6B;QAGi
B,Q;QADb,YAAY,QAAY,IAAZ,C;QACC,OAAA,KAAM,OAAN,GAAa,CAAb,I;QAAb,aAAU,CAAV,iB;UACI,

YACY,eAAK,CAAL,E;UACpB,KAAK,CAAC,CAAD,CAAG,GAAG,K;;QAEP,OAAO,K;O;KARX,C;IAWA,+B;MAIiB,IAAN,I;MAFP,aAAsB,MAAY,IAAZ,C;MACtB,gBAAkB,W;MAEd,IADS,IACT,mBADS,IACT,EAAM,IAAN,E;QAAc,oBAAa,MAAb,K;WACd,WAFS,IAET,S;QAAS,a;;QA3DA,U;QAAA,SA4DkB,MA5DZ,OAAN,GAAa,CAAb,I;QAAb,aAAU,CAAV,mB;UA4D+B,MA3D3B,CAAM,CAAN,IA2DmC,IA3DxB,CAAK,CAAL,C;;QA2DH,OAAmB,M;;MAH/B,W;K;qEAOJ,yB;MAAA,2B;MAAA,6B;QAC2E,YAAa,UAAU,IAAV,EAAgB,KAAhB,C;QAjEvE,Q;QAAA,OAAA,KAAM,OAAN,GAAa,CAAb,I;QAAb,aAAU,CAAV,iB;UACI,MAAM,CAAN,IAgEwG,IAhE7F,CAAK,CAAL,C;;QAgEwD,OA9DhE,K;O;KA6DX,C;IAGA,wC;MACiB,Q;MAAA,OAAA,KAAM,OAAN,GAAa,CAAb,I;MAAb,aAAU,CAAV,iB;QACI,MAAM,CAAN,IAAW,S;;MAEf,OAAO,K;K;IElFX,iC;MAAA,qC;MAEI,iBAC8B,Q;MAE9B,iBAC8B,sB;MAE9B,yBAEsC,MAAM,G;MAE5C,yBAEsC,CAAC,GAAD,GAAO,G;MAE7C,WAEwB,EAAE,MAAM,GAAR,C;MAExB,kBACuB,C;MAEvB,iBACsB,E;K;;;IAxB1B,6C;MAAA,4C;QAAA,2B;OAAA,qC;K;IA2BA,gC;MAAA,oC;MAEI,iBAC6B,O;MAE7B,iBAC6B,Y;MAE7B,yBAEqC,MAAO,G;MAE5C,yBAEqC,CAAC,GAAD,GAAQ,G;MAE7C,WAEuB,EAAE,MAAO,GAAT,C;MAEvB,kBACuB,C;MAEvB,iBACsB,E;K;;;IAxB1B,4C;MAAA,2C;QAAA,0B;OAAA,oC;K;IA2BA,8B;MAAA,kC;MAEI,iBACqB,W;MAErB,iBACqB,U;MAErB,kBACuB,C;MAEvB,iBACsB,E;K;;;IAZ1B,0C;MAAA,yC;QAAA,wB;OAAA,kC;K;IAeA,+B;MAAA,mC;MAEI,iBACJ,MAAM,KAAAoB,U;MAEtB,iBACJ,MAAM,KAAAoB,U;MAEtB,kBACuB,C;MAEvB,iBACsB,E;K;;;IAZ1B,2C;MAAA,0C;QAAA,yB;OAAA,mC;K;IAeA,gC;MAAA,oC;MAEI,iBACuB,U;MAEvB,iBACuB,K;MAEvB,kBACuB,C;MAEvB,iBACsB,E;K;;;IAZ1B,4C;MAAA,2C;QAAA,0B;OAAA,oC;K;IAeA,+B;MAAA,mC;MAEI,iBACsB,Q;MAEtB,iBACsB,G;MAEtB,kBACuB,C;MAEvB,iBACsB,C;K;;;IAZ1B,2C;MAAA,0C;QAAA,yB;OAAA,mC;K;IAeA,+B;MAAA,mC;MAEI,iBACmC,C;MAEnC,iBACmC,K;MAEnC,0BAC4C,K;MAE5C,0BAC4C,K;MAE5C,yBAC2C,K;MAE3C,yBAC2C,K;MAE3C,qBACuC,uB;MAEvC,qBACuC,sB;MAEvC,kBACuB,C;MAEvB,iBACsB,E;K;;;IA9B1B,2C;MAAA,0C;QAAA,yB;OAAA,mC;K;IAiCA,iC;MAAA,qC;K;;;IAAA,6C;MAAA,4C;QAAA,2B;OAAA,qC;K;IAEA,kC;MAAA,sC;K;;;IAAA,8C;MAAA,6C;QAAA,4B;OAAA,sC;K;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;aCkkuBoB,gB;;;;cC/ntB0C,mB;;gBAyEvC,yB;eAAyB,wB;;;uBAgBzB,gC;sBAAwB,+B;mCA4JjC,qB;mCA5ImC,qB;;kBAQ1B,2B;iBAA0B,0B;;;;;;eC3YgB,wB;sBCoBA,sB;iBCnBA,0B;;;aC5P8B,e;;;;;;;;;;;;;;gCClDhD,yC;+BCVA,uC;+BCAA,sC;;gCCyJ/B,+B;+BAIW,sC;gCCqwCc,+B;0BAHvB,kC;uBAr6BO,gC;yBA8WD,iC;0BACA,mC;yBA4JA,iC;gCAmZP,oC;+BAbc,oC;+BAEC,+B;yBAEQ,kC;;gBCr0C6C,yB;;;;;;;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;IC/ErF,kD;MAMuF,wC;K;IANvF,4CAOI,Y;MAAuC,8B;K;IAP3C,8E;ICGA,kD;MAQuF,wC;K;IARvF,4CASI,Y;MAAuC,8B;K;IAT3C,8E;0FbOA,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;0FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;0FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;0FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;IAGX,sC;MAII,OAAO,mBAAQ,OAAR,KAAAoB,C;K;IAG/B,wC;MAII,OAAO,qBAAQ,OAAR,KAAAoB,C;K;IAG/B,wC;MAII,OAAO,qBAAQ,OAAR,KAAAoB,C;K;IAG/B,wC;MAII,OAAO,

qBAAQ,OAAR,KAAoB,C;K;IAG/B,wC;MAII,OAAO,qBAAQ,OAAR,KAAoB,C;K;IAG/B,wC;MAOI,OAAO,qB
AAQ,OAAR,KAAoB,C;K;IAG/B,wC;MAOI,OAAO,qBAAQ,OAAR,KAAoB,C;K;IAG/B,wC;MAII,OAAO,qBA
AQ,OAAR,KAAoB,C;K;IAG/B,wC;MAII,OAAO,qBAAQ,OAAR,KAAoB,C;K;oGAkE/B,yB;MAAA,8D;MAAA,
iD;QAOI,OAAW,SAAS,CAAT,IAAc,SAAS,wBAA3B,GAAsC,UAAI,KAAJ,CAAtC,GAAsD,aAAa,KAAb,C;O;K
APjE,C;sGAUA,yB;MAAA,8D;MAAA,iD;QAOI,OAAW,SAAS,CAAT,IAAc,SAAS,wBAA3B,GAAsC,UAAI,K
AAJ,CAAtC,GAAsD,aAAa,KAAb,C;O;KAPjE,C;sGAUA,yB;MAAA,8D;MAAA,iD;QAOI,OAAW,SAAS,CAAT,
IAAc,SAAS,wBAA3B,GAAsC,UAAI,KAAJ,CAAtC,GAAsD,aAAa,KAAb,C;O;KAPjE,C;sGAUA,yB;MAAA,8D;
MAAA,iD;QAOI,OAAW,SAAS,CAAT,IAAc,SAAS,wBAA3B,GAAsC,UAAI,KAAJ,CAAtC,GAAsD,aAAa,KAA
b,C;O;KAPjE,C;sGAUA,yB;MAAA,8D;MAAA,iD;QAOI,OAAW,SAAS,CAAT,IAAc,SAAS,wBAA3B,GAAsC,U
AAI,KAAJ,CAAtC,GAAsD,aAAa,KAAb,C;O;KAPjE,C;sGAUA,yB;MAAA,8D;MAAA,iD;QAOI,OAAW,SAAS,
CAAT,IAAc,SAAS,wBAA3B,GAAsC,UAAI,KAAJ,CAAtC,GAAsD,aAAa,KAAb,C;O;KAPjE,C;sGAUA,yB;MA
AA,8D;MAAA,iD;QAOI,OAAW,SAAS,CAAT,IAAc,SAAS,wBAA3B,GAAsC,UAAI,KAAJ,CAAtC,GAAsD,aA
Aa,KAAb,C;O;KAPjE,C;sGAUA,yB;MAAA,8D;MAAA,iD;QAOI,OAAW,SAAS,CAAT,IAAc,SAAS,wBAA3B,
GAAsC,UAAI,KAAJ,CAAtC,GAAsD,aAAa,KAAb,C;O;KAPjE,C;sGAUA,yB;MAAA,8D;MAAA,gC;MAAA,iD;
QAOI,OAAW,SAAS,CAAT,IAAc,SAAS,wBAA3B,GAAsC,UAAI,KAAJ,CAAtC,GAAsD,uBAAa,KAAb,E;O;K
APjE,C;oGAUA,yB;MAAA,sD;MAAA,mC;QAOI,OAAY,UAAL,SAAK,EAAU,KAAV,C;O;KAPhB,C;qGAUA,y
B;MAAA,qD;MAAA,mC;QAOI,OAAY,UAAL,SAAK,EAAU,KAAV,C;O;KAPhB,C;sGAUA,yB;MAAA,sD;MA
AA,mC;QAOI,OAAY,UAAL,SAAK,EAAU,KAAV,C;O;KAPhB,C;sGAUA,yB;MAAA,sD;MAAA,mC;QAOI,OA
AY,UAAL,SAAK,EAAU,KAAV,C;O;KAPhB,C;sGAUA,yB;MAAA,sD;MAAA,mC;QAOI,OAAY,UAAL,SAAK,
EAAU,KAAV,C;O;KAPhB,C;sGAUA,yB;MAAA,sD;MAAA,mC;QAOI,OAAY,UAAL,SAAK,EAAU,KAAV,C;
O;KAPhB,C;sGAUA,yB;MAAA,sD;MAAA,mC;QAOI,OAAY,UAAL,SAAK,EAAU,KAAV,C;O;KAPhB,C;sGA
UA,yB;MAAA,sD;MAAA,mC;QAOI,OAAY,UAAL,SAAK,EAAU,KAAV,C;O;KAPhB,C;sGAUA,yB;MAAA,sD
;MAAA,mC;QAOI,OAAY,UAAL,SAAK,EAAU,KAAV,C;O;KAPhB,C;8EAUA,gC;MAOW,sB;;QAybS,Q;QAAh
B,iD;UAAgB,cAAhB,e;UAAsB,IAzbH,SAybO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,q
BAAO,I;;;MA1bP,yB;K;gFAGJ,gC;MAOW,sB;;QAubS,Q;QAAhB,iD;UAAgB,cAAhB,e;UAAsB,IAvbH,SAubO,
CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MAxbP,yB;K;gFAGJ,gC;MAOW,sB;
;QAqbS,Q;QAAhB,iD;UAAgB,cAAhB,e;UAAsB,IArbH,SAqbO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YA
AP,uB;;QAC9C,qBAAO,I;;;MAtbP,yB;K;gFAGJ,gC;MAOW,sB;;QAmbS,Q;QAAhB,iD;UAAgB,cAAhB,e;UAAs
B,IAnbH,SAmbO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MApbP,yB;K;gFA
GJ,gC;MAOW,sB;;QAibS,Q;QAAhB,iD;UAAgB,cAAhB,e;UAAsB,IAjbH,SAibO,CAAU,OAAV,CAAJ,C;YAAw
B,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MAlbP,yB;K;gFAGJ,gC;MAOW,sB;;QA+aS,Q;QAAhB,iD;UAAgB,
cAAhB,e;UAAsB,IA/aH,SA+aO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MA
hbP,yB;K;gFAGJ,gC;MAOW,sB;;QA6aS,Q;QAAhB,iD;UAAgB,cAAhB,e;UAAsB,IA7aH,SA6aO,CAAU,OAAV,
CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MA9aP,yB;K;gFAGJ,gC;MAOW,sB;;QA2aS,Q;QA
AhB,iD;UAAgB,cAAhB,e;UAAsB,IA3aH,SA2aO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9
C,qBAAO,I;;;MA5aP,yB;K;gFAGJ,yB;MA4aA,oC;MAAA,gC;MA5aA,uC;QAOW,sB;;UAyaS,Q;UAAhB,iD;YA
AgB,cAAhB,0B;YAAsB,IAzaH,SAyaO,CAAU,oBAAV,CAAJ,C;cAAwB,qBAAO,O;cAAP,uB;;UAC9C,qBAAO,
I;;;QA1aP,yB;O;KAPJ,C;sFAUA,yB;MAw1CA,0D;MAAA,+C;MAx1CA,uC;QAOW,qB;;UAu1CO,Q;UAAA,OA
Aa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAz1Cc,SAy
1CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QA31CP,wB;O;KAPJ,C;wFAUA,
yB;MA21CA,0D;MAAA,+C;MA31CA,uC;QAOW,qB;;UA01CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAA
d,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IA51Cc,SA41CV,CAAU,OAAV,CAAJ,C;cAA
wB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QA91CP,wB;O;KAPJ,C;wFAUA,yB;MA81CA,0D;MAAA,+C;MA9
1CA,uC;QAOW,qB;;UA61CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV
,cAAc,UAAK,KAAL,C;YACd,IA/1Cc,SA+1CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,o
BAAO,I;;;QAj2CP,wB;O;KAPJ,C;wFAUA,yB;MAi2CA,0D;MAAA,+C;MAj2CA,uC;QAOW,qB;;UAg2CO,Q;UA
AA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAl2
Cc,SAk2CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAp2CP,wB;O;KAPJ,C;w

FAUA,yB;MAo2CA,0D;MAAA,+C;MAp2CA,uC;QAOW,qB;;UAm2CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAr2Cc,SAq2CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAv2CP,wB;O;KAPJ,C;wFAUA,yB;MAu2CA,0D;MAAA,+C;MAv2CA,uC;QAOW,qB;;UAs2CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAx2Cc,SAw2CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QA12CP,wB;O;KAPJ,C;wFAUA,yB;MA02CA,0D;MAAA,+C;MA12CA,uC;QAOW,qB;;UAy2CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IA32Cc,SA22CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QA72CP,wB;O;KAPJ,C;wFAUA,yB;MA62CA,0D;MAAA,+C;MA72CA,uC;QAOW,qB;;UA42CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IA92Cc,SA82CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAh3CP,wB;O;KAPJ,C;wFAUA,yB;MAg3CA,0D;MAAA,+C;MAh3CA,uC;QAOW,qB;;UA+2CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAj3Cc,SAi3CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAn3CP,wB;O;KAPJ,C;wFAUA,yB;MAm3CA,0D;MAAA,+C;MAn3CA,uC;QAOW,qB;;UAk3CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAp3Cc,SAo3CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAt3CP,wB;O;KAPJ,C;wFAUA,yB;MAs3CA,0D;MAAA,+C;MAt3CA,uC;QAOW,qB;;UAq3CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAv3Cc,SAu3CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAz3CP,wB;O;KAPJ,C;wFAUA,yB;MAy3CA,0D;MAAA,+C;MAz3CA,uC;QAOW,qB;;UAw3CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IA13Cc,SA03CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QA53CP,wB;O;KAPJ,C;wFAUA,yB;MA43CA,0D;MAAA,+C;MA53CA,uC;QAOW,qB;;UA23CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IA73Cc,SA63CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QA/3CP,wB;O;KAPJ,C;wFAUA,yB;MA+3CA,0D;MAAA,+C;MA/3CA,uC;QAOW,qB;;UA83CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAh4Cc,SAg4CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAl4CP,wB;O;KAPJ,C;wFAUA,yB;MAk4CA,0D;MAAA,+C;MAl4CA,uC;QAOW,qB;;UAi4CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAn4Cc,SAm4CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAr4CP,wB;O;KAPJ,C;wFAUA,yB;MAq4CA,0D;MAAA,+C;MAr4CA,uC;QAOW,qB;;UAo4CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAt4Cc,SAs4CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAx4CP,wB;O;KAPJ,C;wFAUA,yB;MAw4CA,0D;MAAA,+C;MAx4CA,uC;QAOW,qB;;UAu4CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAz4Cc,SAy4CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QA34CP,wB;O;KAPJ,C;wFAUA,yB;MA24CA,0D;MAAA,+C;MA34CA,uC;QAOW,qB;;UA04CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IA54Cc,SA44CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QA94CP,wB;O;KAPJ,C;wFAUA,yB;MA84CA,0D;MAAA,+C;MA94CA,uC;QAOW,qB;;UA64CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IA/4Cc,SA+4CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAj5CP,wB;O;KAPJ,C;wFAUA,yB;MAi5CA,0D;MAAA,+C;MAj5CA,uC;QAOW,qB;;UAg5CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAl5Cc,SAk5CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAp5CP,wB;O;KAPJ,C;wFAUA,yB;MAo5CA,0D;MAAA,+C;MAp5CA,uC;QAOW,qB;;UAm5CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAr5Cc,SAq5CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAv5CP,wB;O;KAPJ,C;wFAUA,yB;MAu5CA,0D;MAAA,+C;MAv5CA,uC;QAOW,qB;;UAs5CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAx5Cc,SAw5CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QA15CP,wB;O;KAPJ,C;wFAUA,yB;MA05CA,0D;MAAA,+C;MA15CA,uC;QAOW,qB;;UAy5CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IA35Cc,SA25CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QA75CP,wB;O;KAPJ,C;wFAUA,yB;MA65CA,0D;MAAA,+C;MA75CA,uC;QAOW,qB;;UA45CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IA95Cc,SA85CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAh6CP,wB;O;KAPJ,C;wFAUA,yB;MAg6CA,0D;MAAA,+C;MAh6CA,uC;QAOW,qB;;UA+5CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAj6Cc,SAi6CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAn6CP,wB;O;KAPJ,C;wFAUA,yB;MAm6CA,0D;MAAA,+C;MAn6CA,uC;QAOW,qB;;UAk6CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAp6Cc,SAo6CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAt6CP,wB;O;KAPJ,C;wFAUA,yB;MAs6CA,0D;MAAA,+C;MAt6CA,uC;QAOW,qB;;UAq6CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAv6Cc,SAu6CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAz6CP,wB;O;KAPJ,C;wFAUA,yB;MAy6CA,0D;MAAA,+C;MAz6CA,uC;QAOW,qB;;UAw6CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IA16Cc,SA06CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QA56CP,wB;O;KAPJ,C;wFAUA,yB;MA46CA,0D;MAAA,+C;MA56CA,uC;QAOW,qB;;UA26CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IA76Cc,SA66CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QA/6CP,wB;O;KAPJ,C;wFAUA,yB;MA+6CA,0D;MAAA,+C;MA/6CA,uC;QAOW,qB;;UA86CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAh7Cc,SAg7CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAl7CP,wB;O;KAPJ,C;wFAUA,yB;MAk7CA,0D;MAAA,+C;MAl7CA,uC;QAOW,qB;;UAi7CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAn7Cc,SAm7CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAr7CP,wB;O;KAPJ,C;wFAUA,yB;MAq7CA,0D;MAAA,+C;MAr7CA,uC;QAOW,qB;;UAo7CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAt7Cc,SAs7CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAx7CP,wB;O;KAPJ,C;wFAUA,yB;MAw7CA,0D;MAAA,+C;MAx7CA,uC;QAOW,qB;;UAu7CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAz7Cc,SAy7CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QA37CP,wB;O;KAPJ,C;wFAUA,yB;MA27CA,0D;MAAA,+C;MA37CA,uC;QAOW,qB;;UA07CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IA57Cc,SA47CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QA97CP,wB;O;KAPJ,C;wFAUA,yB;MA87CA,0D;MAAA,+C;MA97CA,uC;QAOW,qB;;UA67CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IA/7Cc,SA+7CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAj8CP,wB;O;KAPJ,C;wFAUA,yB;MAi8CA,0D;MAAA,+C;MAj8CA,uC;QAOW,qB;;UAg8CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAl8Cc,SAk8CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAp8CP,wB;O;KAPJ,C;wFAUA,yB;MAo8CA,0D;MAAA,+C;MAp8CA,uC;QAOW,qB;;UAm8CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAr8Cc,SAq8CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAv8CP,wB;O;KAPJ,C;wFAUA,yB;MAu8CA,0D;MAAA,+C;MAv8CA,uC;QAOW,qB;;UAs8CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAx8Cc,SAw8CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QA18CP,wB;O;KAPJ,C;wFAUA,yB;MA08CA,0D;MAAA,+C;MA18CA,uC;QAOW,qB;;UAy8CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IA38Cc,SA28CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QA78CP,wB;O;KAPJ,C;wFAUA,yB;MA68CA,0D;MAAA,+C;MA78CA,uC;QAOW,qB;;UA48CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IA98Cc,SA88CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAh9CP,wB;O;KAPJ,C;wFAUA,yB;MAg9CA,0D;MAAA,+C;MAh9CA,uC;QAOW,qB;;UA+8CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAj9Cc,SAi9CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAn9CP,wB;O;KAPJ,C;wFAUA,yB;MAm9CA,0D;MAAA,+C;MAn9CA,uC;QAOW,qB;;UAk9CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAp9Cc,SAo9CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAt9CP,wB;O;KAPJ,C;wFAUA,yB;MAs9CA,0D;MAAA,+C;MAt9CA,uC;QAOW,qB;;UAq9CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAv9Cc,SAu9CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAz9CP,wB;O;KAPJ,C;wFAUA,yB;MAy9CA,0D;MAAA,+C;MAz9CA,uC;QAOW,qB;;UAw9CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IA19Cc,SA09CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QA59CP,wB;O;KAPJ,C;wFAUA,yB;MA49CA,0D;MAAA,+C;MA59CA,uC;QAOW,qB;;UA29CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IA79Cc,SA69CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QA/9CP,wB;O;KAPJ,C;wFAUA,yB;MA+9CA,0D;MAAA,+C;MA/9CA,uC;QAOW,qB;;UA89CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAh+Cc,SAg+CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAl+CP,wB;O;KAPJ,C;wFAUA,yB;MAk+CA,0D;MAAA,+C;MAl+CA,uC;QAOW,qB;;UAi+CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAn+Cc,SAm+CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAr+CP,wB;O;KAPJ,C;wFAUA,yB;MAq+CA,0D;MAAA,+C;MAr+CA,uC;QAOW,qB;;UAo+CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAt+Cc,SAs+CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAx+CP,wB;O;KAPJ,C;wFAUA,yB;MAw+CA,0D;MAAA,+C;MAx+CA,uC;QAOW,qB;;UAu+CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAz+Cc,SAy+CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QA3+CP,wB;O;KAPJ,C;wFAUA,yB;MA2+CA,0D;MAAA,+C;MA3+CA,uC;QAOW,qB;;UA0+CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IA5+Cc,SA4+CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QA9+CP,wB;O;KAPJ,C;wFAUA,yB;MA8+CA,0D;MAAA,+C;MA9+CA,uC;QAOW,qB;;UA6+CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IA/+Cc,SA++CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAj/CP,wB;O;KAPJ,C;wFAUA,yB;MAi/CA,0D;MAAA,+C;MAj/CA,uC;QAOW,qB;;UAg/CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAl/Cc,SAk/CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAp/CP,wB;O;KAPJ,C;wFAUA,yB;MAo/CA,0D;MAAA,+C;MAp/CA,uC;QAOW,qB;;UAm/CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAr/Cc,SAq/CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAv/CP,wB;O;KAPJ,C;wFAUA,yB;MAu/CA,0D;MAAA,+C;MAv/CA,uC;QAOW,qB;;UAs/CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAx/Cc,SAw/CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QA1/CP,wB;O;KAPJ,C;wFAUA,yB;MA0/CA,0D;MAAA,+C;MA1/CA,uC;QAOW,qB;;UAy/CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IA3/Cc,SA2/CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QA7/CP,wB;O;KAPJ,C;wFAUA,yB;MA6/CA,0D;MAAA,+C;MA7/CA,uC;QAOW,qB;;UA4/CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IA9/Cc,SA8/CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAhgDP,wB;O;KAPJ,C;wFAUA,yB;MAggDA,0D;MAAA,+C;MAhgDA,uC;QAOW,qB;;UA+/CO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAjgDc,SAigDV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAngDP,wB;O;KAPJ,C;wFAUA,yB;MAmgDA,0D;MAAA,+C;MAngDA,uC;QAOW,qB;;UAkgDO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IApgDc,SAogDV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAtgDP,wB;O;KAPJ,C;wFAUA,yB;MAsgDA,0D;MAAA,+C;MAtgDA,uC;QAOW,qB;;UAqgDO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAvgDc,SAugDV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAzgDP,wB;O;KAPJ,C;wFAUA,yB;MAygDA,0D;MAAA,+C;MAzgDA,uC;QAOW,qB;;UAwgDO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IA1gDc,SA0gDV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QA5gDP,wB;O;KAPJ,C;wFAUA,yB;MA4gDA,0D;MAAA,+C;MA5gDA,uC;QAOW,qB;;UA2gDO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IA7gDc,SA6gDV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QA/gDP,wB;O;KAPJ,C;wFAUA,yB;MA+gDA,0D;MAAA,+C;MA/gDA,uC;QAOW,qB;;UA8gDO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAhhDc,SAghDV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAlhDP,wB;O;KAPJ,C;wFAUA,yB;MAkhDA,0D;MAAA,+C;MAlhDA,uC;QAOW,qB;;UAihDO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAnhDc,SAmhDV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QArhDP,wB;O;KAPJ,C;wFAUA,yB;MAqhDA,0D;MAAA,+C;MArhDA,uC;QAOW,qB;;UAohDO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAthDc,SAshDV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAxhDP,wB;O;KAPJ,C;wFAUA,yB;MAwhDA,0D;MAAA,+C;MAxhDA,uC;QAOW,qB;;UAuhDO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAzhDc,SAyhDV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QA3hDP,wB;O;KAPJ,C;wFAUA,yB;MA2hDA,0D;MAAA,+C;MA3hDA,uC;QAOW,qB;;UA0hDO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IA5hDc,SA4hDV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QA9hDP,wB;O;KAPJ,C;wFAUA,yB;MA8hDA,0D;MAAA,+C;MA9hDA,uC;QAOW,qB;;UA6hDO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IA/hDc,SA+hDV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAjiDP,wB;O;KAPJ,C;wFAUA,yB;MAiiDA,0D;MAAA,+C;MAjiDA,uC;QAOW,qB;;UAgiDO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAliDc,SAkiDV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QApiDP,wB;O;KAPJ,C;wFAUA,yB;MAoiDA,0D;MAAA,+C;MApiDA,uC;QAOW,qB;;UAmiDO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAriDc,SAqiDV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAviDP,wB;O;KAPJ,C;wFAUA,yB;MAuiDA,0D;MAAA,+C;MAviDA,uC;QAOW,qB;;UAsiDO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAxiDc,SAwiDV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QA1iDP,wB;O;KAPJ,C;wFAUA,yB;MA0iDA,0D;MAAA,+C;MA1iDA,uC;QAOW,qB;;UAyiDO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IA3iDc,SA2iDV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QA7iDP,wB;O;KAPJ,C;wFAUA,yB;MA6iDA,0D;MAAA,+C;MA7iDA,uC;QAOW,qB;;UA4iDO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IA9iDc,SA8iDV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAhjDP,wB;O;KAPJ,C;wFAUA,yB;MAgjDA,0D;MAAA,+C;MAhjDA,uC;QAOW,qB;;UA+iDO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAjjDc,SAijDV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAnjDP,wB;O;KAPJ,C;wFAUA,yB;MAmjDA,0D;MAAA,+C;MAnjDA,uC;QAOW,qB;;UAkjDO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IApjDc,SAojDV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAtjDP,wB;O;KAPJ,C;wFAUA,yB;MAsjDA,0D;MAAA,+C;MAtjDA,uC;QAOW,qB;;UAqjDO,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YACd,IAvjDc,SAujDV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAzjDP,wB;O;KAPJ

AAK,CAAL,C;K;IAGpC,kC;MAII,OAyiNO,qBAAQ,CAziNR,GAAe,IAAf,GAAyB,UAAK,CAAL,C;K;IAGpC,k
C;MAII,OA0iNO,qBAAQ,CA1iNR,GAAe,IAAf,GAAyB,UAAK,CAAL,C;K;IAGpC,kC;MAII,OA2iNO,qBAAQ,
CA3iNR,GAAe,IAAf,GAAyB,UAAK,CAAL,C;K;IAGpC,kC;MAII,OA4iNO,qBAAQ,CA5iNR,GAAe,IAAf,GAA
yB,UAAK,CAAL,C;K;8FAGpC,gC;MAIoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,
IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,O;;MACrD,OAAO,I;K;8FAGX,gC;MAIoB,Q;MAAhB,wBAAgB,S
AAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,O;;MACrD,OAAO,I;
K;+FAGX,gC;MAIoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,
CAAJ,C;UAAwB,OAAO,O;;MACrD,OAAO,I;K;+FAGX,gC;MAIoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,c
AAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,O;;MACrD,OAAO,I;K;+FAGX,gC;MAIo
B,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,O
AAO,O;;MACrD,OAAO,I;K;+FAGX,gC;MAIoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QA
AsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,O;;MACrD,OAAO,I;K;+FAGX,gC;MAIoB,Q;MAAhB,wBA
AgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,O;;MACrD,O
AAO,I;K;+FAGX,gC;MAIoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,
OAAV,CAAJ,C;UAAwB,OAAO,O;;MACrD,OAAO,I;K;+FAGX,yB;MAAA,oC;MAAA,gC;MAAA,uC;QAIoB,Q
;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UAAsB,IAAI,UAAU,oBAAV,CAAJ,C;YAA
wB,OAAO,O;;QACrD,OAAO,I;O;KALX,C;wFAQA,yB;MAAA,8D;MAAA,iD;QAKI,OAAW,SAAS,CAAT,IAA
c,SAAS,wBAA3B,GAAsC,UAAI,KAAJ,CAAtC,GAAsD,aAAa,KAAb,C;O;KALjE,C;0FAQA,yB;MAAA,8D;MA
AA,iD;QAKI,OAAW,SAAS,CAAT,IAAc,SAAS,wBAA3B,GAAsC,UAAI,KAAJ,CAAtC,GAAsD,aAAa,KAAb,C;
O;KALjE,C;0FAQA,yB;MAAA,8D;MAAA,iD;QAKI,OAAW,SAAS,CAAT,IAAc,SAAS,wBAA3B,GAAsC,UAA
I,KAAJ,CAAtC,GAAsD,aAAa,KAAb,C;O;KALjE,C;0FAQA,yB;MAAA,8D;MAAA,iD;QAKI,OAAW,SAAS,CA
AT,IAAc,SAAS,wBAA3B,GAAsC,UAAI,KAAJ,CAAtC,GAAsD,aAAa,KAAb,C;O;KALjE,C;0FAQA,yB;MAAA,
8D;MAAA,iD;QAKI,OAAW,SAAS,CAAT,IAAc,SAAS,wBAA3B,GAAsC,UAAI,KAAJ,CAAtC,GAAsD,aAAa,K
AAb,C;O;KALjE,C;0FAQA,yB;MAAA,8D;MAAA,iD;QAKI,OAAW,SAAS,CAAT,IAAc,SAAS,wBAA3B,GAAs
C,UAAI,KAAJ,CAAtC,GAAsD,aAAa,KAAb,C;O;KALjE,C;0FAQA,yB;MAAA,8D;MAAA,iD;QAKI,OAAW,SA
AS,CAAT,IAAc,SAAS,wBAA3B,GAAsC,UAAI,KAAJ,CAAtC,GAAsD,aAAa,KAAb,C;O;KALjE,C;0FAQA,yB;
MAAA,8D;MAAA,iD;QAKI,OAAW,SAAS,CAAT,IAAc,SAAS,wBAA3B,GAAsC,UAAI,KAAJ,CAAtC,GAAsD,
aAAa,KAAb,C;O;KALjE,C;0FAQA,yB;MAAA,8D;MAAA,gC;MAAA,iD;QAKI,OAAW,SAAS,CAAT,IAAc,SA
AS,wBAA3B,GAAsC,UAAI,KAAJ,CAAtC,GAAsD,uBAAa,KAAb,E;O;KALjE,C;IAQA,qC;MAMI,OAAW,SAA
S,CAAT,IAAc,SAAS,wBAA3B,GAAsC,UAAI,KAAJ,CAAtC,GAAsD,I;K;IAGjE,uC;MAMI,OAAW,SAAS,CAA
T,IAAc,SAAS,0BAA3B,GAAsC,UAAI,KAAJ,CAAtC,GAAsD,I;K;IAGjE,uC;MAMI,OAAW,SAAS,CAAT,IAAc,
SAAS,0BAA3B,GAAsC,UAAI,KAAJ,CAAtC,GAAsD,I;K;IAGjE,uC;MAMI,OAAW,SAAS,CAAT,IAAc,SAAS,0
BAA3B,GAAsC,UAAI,KAAJ,CAAtC,GAAsD,I;K;IAGjE,uC;MAMI,OAAW,SAAS,CAAT,IAAc,SAAS,0BAA3B
,GAAsC,UAAI,KAAJ,CAAtC,GAAsD,I;K;IAGjE,uC;MAMI,OAAW,SAAS,CAAT,IAAc,SAAS,0BAA3B,GAAs
C,UAAI,KAAJ,CAAtC,GAAsD,I;K;IAGjE,uC;MAMI,OAAW,SAAS,CAAT,IAAc,SAAS,0BAA3B,GAAsC,UAAI
,KAAJ,CAAtC,GAAsD,I;K;IAGjE,uC;MAMI,OAAW,SAAS,CAAT,IAAc,SAAS,0BAA3B,GAAsC,UAAI,KAAJ,
CAAtC,GAAsD,I;K;IAGjE,uC;MAMI,OAAW,SAAS,CAAT,IAAc,SAAS,0BAA3B,GAAsC,UAAI,KAAJ,CAAtC,
GAAsD,I;K;IAGjE,qC;MAII,IAAI,eAAJ,C;QACI,wD;UACI,IAAI,UAAK,KAAL,SAAJ,C;YACI,OAAO,K;;;QAIf
,8D;UACI,IAAI,gBAAW,UAAK,OAAL,CAAX,CAAJ,C;YACI,OAAO,O;;;MAInB,OAAO,E;K;IAGX,uC;MAII,w
D;QACI,IAAI,YAAW,UAAK,KAAL,CAAf,C;UACI,OAAO,K;;MAGf,OAAO,E;K;IAGX,uC;MAII,wD;QACI,IA
AI,YAAW,UAAK,KAAL,CAAf,C;UACI,OAAO,K;;MAGf,OAAO,E;K;IAGX,uC;MAII,wD;QACI,IAAI,YAAW,
UAAK,KAAL,CAAf,C;UACI,OAAO,K;;MAGf,OAAO,E;K;IAGX,uC;MAII,wD;QACI,IAAI,gBAAW,UAAK,KA
AL,CAAX,CAAJ,C;UACI,OAAO,K;;MAGf,OAAO,E;K;IAGX,uC;MAMI,wD;QACI,IAAI,YAAW,UAAK,KAAL
,CAAf,C;UACI,OAAO,K;;MAGf,OAAO,E;K;IAGX,uC;MAMI,wD;QACI,IAAI,YAAW,UAAK,KAAL,CAAf,C;
UACI,OAAO,K;;MAGf,OAAO,E;K;IAGX,uC;MAII,wD;QACI,IAAI,YAAW,UAAK,KAAL,CAAf,C;UACI,OAA
O,K;;MAGf,OAAO,E;K;IAGX,uC;MAII,wD;QACI,IAAI,YAAW,UAAK,KAAL,CAAf,C;UACI,OAAO,K;;MAGf
,OAAO,E;K;8FAGX,gC;MAII,wD;QACI,IAAI,UAAU,UAAK,KAAL,CAAV,CAAJ,C;UACI,OAAO,K;;MAGf,O
AAO,E;K;gGAGX,gC;MAII,wD;QACI,IAAI,UAAU,UAAK,KAAL,CAAV,CAAJ,C;UACI,OAAO,K;;MAGf,OA

AO,E;K;gGAGX,gC;MAII,wD;QACI,IAAI,UAAU,UAAK,KAAL,CAAV,CAAJ,C;UACI,OAAO,K;;MAGf,OAA
O,E;K;gGAGX,gC;MAII,wD;QACI,IAAI,UAAU,UAAK,KAAL,CAAV,CAAJ,C;UACI,OAAO,K;;MAGf,OAAO,
E;K;gGAGX,gC;MAII,wD;QACI,IAAI,UAAU,UAAK,KAAL,CAAV,CAAJ,C;UACI,OAAO,K;;MAGf,OAAO,E;
K;gGAGX,gC;MAII,wD;QACI,IAAI,UAAU,UAAK,KAAL,CAAV,CAAJ,C;UACI,OAAO,K;;MAGf,OAAO,E;K;
gGAGX,gC;MAII,wD;QACI,IAAI,UAAU,UAAK,KAAL,CAAV,CAAJ,C;UACI,OAAO,K;;MAGf,OAAO,E;K;gG
AGX,gC;MAII,wD;QACI,IAAI,UAAU,UAAK,KAAL,CAAV,CAAJ,C;UACI,OAAO,K;;MAGf,OAAO,E;K;gGA
GX,yB;MAAA,oC;MAAA,uC;QAII,wD;UACI,IAAI,UAAU,sBAAK,KAAL,EAAV,CAAJ,C;YACI,OAAO,K;;QA
Gf,OAAO,E;O;KATX,C;4FAYA,yB;MAAA,0D;MAAA,+C;MAAA,uC;QAIkB,Q;QAAA,OAAQ,SAAR,sBAAQ,
CAAR,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,IAAI,UAAU,UAAK,KAAL,CAAV,CAAJ,C;YACI,OAAO,K;;
QAGf,OAAO,E;O;KATX,C;8FAYA,yB;MAAA,0D;MAAA,+C;MAAA,uC;QAIkB,Q;QAAA,OAAQ,SAAR,sBA
AQ,CAAR,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,IAAI,UAAU,UAAK,KAAL,CAAV,CAAJ,C;YACI,OAAO
,K;;QAGf,OAAO,E;O;KATX,C;8FAYA,yB;MAAA,0D;MAAA,+C;MAAA,uC;QAIkB,Q;QAAA,OAAQ,SAAR,s
BAAQ,CAAR,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,IAAI,UAAU,UAAK,KAAL,CAAV,CAAJ,C;YACI,OA
AO,K;;QAGf,OAAO,E;O;KATX,C;8FAYA,yB;MAAA,0D;MAAA,+C;MAAA,uC;QAIkB,Q;QAAA,OAAQ,SAA
R,sBAAQ,CAAR,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,IAAI,UAAU,UAAK,KAAL,CAAV,CAAJ,C;YACI,
OAAO,K;;QAGf,OAAO,E;O;KATX,C;8FAYA,yB;MAAA,0D;MAAA,+C;MAAA,uC;QAIkB,Q;QAAA,OAAQ,S
AAR,sBAAQ,CAAR,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,IAAI,UAAU,UAAK,KAAL,CAAV,CAAJ,C;YA
CI,OAAO,K;;QAGf,OAAO,E;O;KATX,C;8FAYA,yB;MAAA,0D;MAAA,+C;MAAA,uC;QAIkB,Q;QAAA,OAA
Q,SAAR,sBAAQ,CAAR,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,IAAI,UAAU,UAAK,KAAL,CAAV,CAAJ,C;
YACI,OAAO,K;;QAGf,OAAO,E;O;KATX,C;8FAYA,yB;MAAA,0D;MAAA,+C;MAAA,uC;QAIkB,Q;QAAA,O
AAQ,SAAR,sBAAQ,CAAR,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,IAAI,UAAU,UAAK,KAAL,CAAV,CAA
J,C;YACI,OAAO,K;;QAGf,OAAO,E;O;KATX,C;8FAYA,yB;MAAA,0D;MAAA,+C;MAAA,uC;QAIkB,Q;QAA
A,OAAQ,SAAR,sBAAQ,CAAR,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,IAAI,UAAU,UAAK,KAAL,CAAV,
CAAJ,C;YACI,OAAO,K;;QAGf,OAAO,E;O;KATX,C;8FAYA,yB;MAAA,0D;MAAA,+C;MAAA,oC;MAAA,uC;
QAIkB,Q;QAAA,OAAQ,SAAR,sBAAQ,CAAR,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,IAAI,UAAU,sBAAK
,KAAL,EAAV,CAAJ,C;YACI,OAAO,K;;QAGf,OAAO,E;O;KATX,C;IAYA,yB;MAQI,IAg7LO,qBAAQ,CAh7Lf,
C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAK,wBAAL,C;K;IAGX,2B;MAQI,IA26LO,qBAAQ,CA
36Lf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAK,0BAAL,C;K;IAGX,2B;MAQI,IAs6LO,qBAA
Q,CAt6Lf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAK,0BAAL,C;K;IAGX,2B;MAQI,IAi6LO,q
BAAQ,CAj6Lf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAK,0BAAL,C;K;IAGX,2B;MAQI,IA45
LO,qBAAQ,CA55Lf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAK,0BAAL,C;K;IAGX,2B;MAQI,
IAu5LO,qBAAQ,CAv5Lf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAK,0BAAL,C;K;IAGX,2B;M
AQI,IAk5LO,qBAAQ,CAl5Lf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAK,0BAAL,C;K;IAGX,2
B;MAQI,IA64LO,qBAAQ,CA74Lf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAK,0BAAL,C;K;IA
GX,2B;MAQI,IAw4LO,qBAAQ,CAx4Lf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAK,0BAAL,C
;K;gFAGX,yB;MAAA,0D;MAAA,+C;MAAA,iE;MAAA,uC;QAQkB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,CAA
Q,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,cAAc,UAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;
YAAwB,OAAO,O;;QAEnC,MAAM,gCAAuB,mDAAvB,C;O;KAZV,C;gFAeA,yB;MAAA,0D;MAAA,+C;MAAA
,iE;MAAA,uC;QAQkB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,CAAQ,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;
UACV,cAAc,UAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QAEnC,MAAM,gCAAu
B,mDAAvB,C;O;KAZV,C;iFAeA,yB;MAAA,0D;MAAA,+C;MAAA,iE;MAAA,uC;QAQkB,Q;QAAA,OAAa,SA
AR,YAAL,SAAK,CAAQ,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,cAAc,UAAK,KAAL,C;UACd,IAAI,
UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QAEnC,MAAM,gCAAuB,mDAAvB,C;O;KAZV,C;iFAeA,yB;MAA
A,0D;MAAA,+C;MAAA,iE;MAAA,uC;QAQkB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,CAAQ,CAAb,W;QAAd,
OAAc,cAAd,C;UAAc,uB;UACV,cAAc,UAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;
;QAEnC,MAAM,gCAAuB,mDAAvB,C;O;KAZV,C;iFAeA,yB;MAAA,0D;MAAA,+C;MAAA,iE;MAAA,uC;QA
QkB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,CAAQ,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,cAAc,UAA
K,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QAEnC,MAAM,gCAAuB,mDAAvB,C;O;K

AZV,C;iFAeA,yB;MAAA,0D;MAAA,+C;MAAA,iE;MAAA,uC;QAQkB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,C
AAQ,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,cAAc,UAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAA
J,C;YAAwB,OAAO,O;;QAEnC,MAAM,gCAAuB,mDAAvB,C;O;KAZV,C;iFAeA,yB;MAAA,0D;MAAA,+C;MA
AA,iE;MAAA,uC;QAQkB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,CAAQ,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,
uB;UACV,cAAc,UAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QAEnC,MAAM,gCA
AuB,mDAAvB,C;O;KAZV,C;iFAeA,yB;MAAA,0D;MAAA,+C;MAAA,iE;MAAA,uC;QAQkB,Q;QAAA,OAAa,
SAAR,YAAL,SAAK,CAAQ,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,cAAc,UAAK,KAAL,C;UACd,IA
AI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QAEnC,MAAM,gCAAuB,mDAAvB,C;O;KAZV,C;iFAeA,yB;MA
AA,0D;MAAA,+C;MAAA,oC;MAAA,iE;MAAA,uC;QAQkB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,CAAQ,CAA
b,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,cAAc,UAAK,KAAL,C;UACd,IAAI,UAAU,oBAAV,CAAJ,C;YAA
wB,OAAO,O;;QAEnC,MAAM,gCAAuB,mDAAvB,C;O;KAZV,C;IAeA,yC;MAKsB,UAMA,M;MAPlB,IAAI,eA
AJ,C;QACkB,OAAQ,WAAR,sBAAQ,CAAR,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,IAAI,UAAK,KAAL,SA
AJ,C;YACI,OAAO,K;;;QAID,SAAQ,WAAR,sBAAQ,CAAR,W;QAAd,OAAc,gBAAd,C;UAAc,2B;UACV,IAAI,g
BAAW,UAAK,OAAL,CAAX,CAAJ,C;YACI,OAAO,O;;;MAInB,OAAO,E;K;IAGX,2C;MAIkB,Q;MAAA,OAAQ
,WAAR,wBAAQ,CAAR,W;MAAd,OAAc,cAAd,C;QAAc,uB;QACV,IAAI,YAAW,UAAK,KAAL,CAAf,C;UACI,
OAAO,K;;MAGf,OAAO,E;K;IAGX,2C;MAIkB,Q;MAAA,OAAQ,WAAR,wBAAQ,CAAR,W;MAAd,OAAc,cAA
d,C;QAAc,uB;QACV,IAAI,YAAW,UAAK,KAAL,CAAf,C;UACI,OAAO,K;;MAGf,OAAO,E;K;IAGX,2C;MAIk
B,Q;MAAA,OAAQ,WAAR,wBAAQ,CAAR,W;MAAd,OAAc,cAAd,C;QAAc,uB;QACV,IAAI,YAAW,UAAK,K
AAL,CAAf,C;UACI,OAAO,K;;MAGf,OAAO,E;K;IAGX,2C;MAIkB,Q;MAAA,OAAQ,WAAR,wBAAQ,CAAR,
W;MAAd,OAAc,cAAd,C;QAAc,uB;QACV,IAAI,gBAAW,UAAK,KAAL,CAAX,CAAJ,C;UACI,OAAO,K;;MAG
f,OAAO,E;K;IAGX,2C;MAMkB,Q;MAAA,OAAQ,WAAR,wBAAQ,CAAR,W;MAAd,OAAc,cAAd,C;QAAc,uB;
QACV,IAAI,YAAW,UAAK,KAAL,CAAf,C;UACI,OAAO,K;;MAGf,OAAO,E;K;IAGX,2C;MAMkB,Q;MAAA,O
AAQ,WAAR,wBAAQ,CAAR,W;MAAd,OAAc,cAAd,C;QAAc,uB;QACV,IAAI,YAAW,UAAK,KAAL,CAAf,C;
UACI,OAAO,K;;MAGf,OAAO,E;K;IAGX,2C;MAIkB,Q;MAAA,OAAQ,WAAR,wBAAQ,CAAR,W;MAAd,OAA
c,cAAd,C;QAAc,uB;QACV,IAAI,YAAW,UAAK,KAAL,CAAf,C;UACI,OAAO,K;;MAGf,OAAO,E;K;IAGX,2C;
MAIkB,Q;MAAA,OAAQ,WAAR,wBAAQ,CAAR,W;MAAd,OAAc,cAAd,C;QAAc,uB;QACV,IAAI,YAAW,UA
AK,KAAL,CAAf,C;UACI,OAAO,K;;MAGf,OAAO,E;K;IAGX,+B;MAMI,OA8jLO,qBAAQ,CA9jLR,GAAe,IAA
f,GAAyB,UAAK,mBAAO,CAAP,IAAL,C;K;IAGpC,iC;MAMI,OA6jLO,qBAAQ,CA7jLR,GAAe,IAAf,GAAyB,U
AAK,mBAAO,CAAP,IAAL,C;K;IAGpC,iC;MAMI,OA4jLO,qBAAQ,CA5jLR,GAAe,IAAf,GAAyB,UAAK,mBA
AO,CAAP,IAAL,C;K;IAGpC,iC;MAMI,OA2jLO,qBAAQ,CA3jLR,GAAe,IAAf,GAAyB,UAAK,mBAAO,CAAP,
IAAL,C;K;IAGpC,iC;MAMI,OA0jLO,qBAAQ,CA1jLR,GAAe,IAAf,GAAyB,UAAK,mBAAO,CAAP,IAAL,C;K;
IAGpC,iC;MAMI,OAyjLO,qBAAQ,CAzjLR,GAAe,IAAf,GAAyB,UAAK,mBAAO,CAAP,IAAL,C;K;IAGpC,iC;
MAMI,OAwjLO,qBAAQ,CAxjLR,GAAe,IAAf,GAAyB,UAAK,mBAAO,CAAP,IAAL,C;K;IAGpC,iC;MAMI,OA
ujLO,qBAAQ,CAvjLR,GAAe,IAAf,GAAyB,UAAK,mBAAO,CAAP,IAAL,C;K;IAGpC,iC;MAMI,OAsjLO,qBAA
Q,CAtjLR,GAAe,IAAf,GAAyB,UAAK,mBAAO,CAAP,IAAL,C;K;4FAGpC,yB;MAAA,0D;MAAA,+C;MAAA,u
C;QAMkB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,CAAQ,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,cAA
c,UAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QAEnC,OAAO,I;O;KAVX,C;4FAaA,
yB;MAAA,0D;MAAA,+C;MAAA,uC;QAMkB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,CAAQ,CAAb,W;QAAd,O
AAc,cAAd,C;UAAc,uB;UACV,cAAc,UAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;
QAEnC,OAAO,I;O;KAVX,C;6FAaA,yB;MAAA,0D;MAAA,+C;MAAA,uC;QAMkB,Q;QAAA,OAAa,SAAR,YA
AL,SAAK,CAAQ,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,cAAc,UAAK,KAAL,C;UACd,IAAI,UAAU,
OAAV,CAAJ,C;YAAwB,OAAO,O;;QAEnC,OAAO,I;O;KAVX,C;6FAaA,yB;MAAA,0D;MAAA,+C;MAAA,uC;
QAMkB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,CAAQ,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,cAAc,
UAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QAEnC,OAAO,I;O;KAVX,C;6FAaA,y
B;MAAA,0D;MAAA,+C;MAAA,uC;QAMkB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,CAAQ,CAAb,W;QAAd,OA
Ac,cAAd,C;UAAc,uB;UACV,cAAc,UAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;Q
AEnC,OAAO,I;O;KAVX,C;6FAaA,yB;MAAA,0D;MAAA,+C;MAAA,uC;QAMkB,Q;QAAA,OAAa,SAAR,YAA
L,SAAK,CAAQ,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,cAAc,UAAK,KAAL,C;UACd,IAAI,UAAU,O

AAV,CAAJ,C;YAAwB,OAAO,O;;QAEnC,OAAO,I;O;KAVX,C;6FAaA,yB;MAAA,0D;MAAA,+C;MAAA,uC;Q
AMkB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,CAAQ,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,cAAc,U
AAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QAEnC,OAAO,I;O;KAVX,C;6FAaA,yB;
MAAA,0D;MAAA,+C;MAAA,uC;QAMkB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,CAAQ,CAAb,W;QAAd,OAAc
,cAAd,C;UAAc,uB;UACV,cAAc,UAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QAE
nC,OAAO,I;O;KAVX,C;6FAaA,yB;MAAA,0D;MAAA,+C;MAAA,oC;MAAA,uC;QAMkB,Q;QAAA,OAAa,SAA
R,YAAL,SAAK,CAAQ,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,cAAc,UAAK,KAAL,C;UACd,IAAI,U
AAU,oBAAV,CAAJ,C;YAAwB,OAAO,O;;QAEnC,OAAO,I;O;KAVX,C;kFAaA,yB;MAAA,mC;MAAA,gD;MA
AA,4B;QAQI,OAAO,kBAAO,cAAP,C;O;KARX,C;oFAWA,yB;MAAA,mC;MAAA,gD;MAAA,4B;QAQI,OAAO
,kBAAO,cAAP,C;O;KARX,C;oFAWA,yB;MAAA,mC;MAAA,gD;MAAA,4B;QAQI,OAAO,kBAAO,cAAP,C;O;
KARX,C;oFAWA,yB;MAAA,mC;MAAA,gD;MAAA,4B;QAQI,OAAO,kBAAO,cAAP,C;O;KARX,C;oFAWA,yB
;MAAA,mC;MAAA,gD;MAAA,4B;QAQI,OAAO,kBAAO,cAAP,C;O;KARX,C;oFAWA,yB;MAAA,mC;MAAA,
gD;MAAA,4B;QAQI,OAAO,kBAAO,cAAP,C;O;KARX,C;oFAWA,yB;MAAA,mC;MAAA,gD;MAAA,4B;QAQI
,OAAO,kBAAO,cAAP,C;O;KARX,C;oFAWA,yB;MAAA,mC;MAAA,gD;MAAA,4B;QAQI,OAAO,kBAAO,cAA
P,C;O;KARX,C;oFAWA,yB;MAAA,mC;MAAA,gD;MAAA,4B;QAQI,OAAO,kBAAO,cAAP,C;O;KARX,C;IAW
A,qC;MAOI,IAoxKO,qBAAQ,CApxKf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAI,MAAO,iBA
AQ,gBAAR,CAAX,C;K;IAGX,qC;MAOI,IAgxKO,qBAAQ,CAhxKf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MAC
V,OAAO,UAAI,MAAO,iBAAQ,gBAAR,CAAX,C;K;IAGX,sC;MAOI,IA4wKO,qBAAQ,CA5wKf,C;QACI,MAA
M,2BAAuB,iBAAvB,C;MACV,OAAO,UAAI,MAAO,iBAAQ,gBAAR,CAAX,C;K;IAGX,sC;MAOI,IAwwKO,qB
AAQ,CAxwKf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAI,MAAO,iBAAQ,gBAAR,CAAX,C;K;
IAGX,sC;MAOI,IAowKO,qBAAQ,CApwKf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAI,MAAO
,iBAAQ,gBAAR,CAAX,C;K;IAGX,sC;MAOI,IAgwKO,qBAAQ,CAhwKf,C;QACI,MAAM,2BAAuB,iBAAvB,C;
MACV,OAAO,UAAI,MAAO,iBAAQ,gBAAR,CAAX,C;K;IAGX,sC;MAOI,IA4vKO,qBAAQ,CA5vKf,C;QACI,
MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAI,MAAO,iBAAQ,gBAAR,CAAX,C;K;IAGX,sC;MAOI,IAwvK
O,qBAAQ,CAxvKf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAI,MAAO,iBAAQ,gBAAR,CAAX,
C;K;IAGX,sC;MAOI,IAovKO,qBAAQ,CApvKf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAI,MA
AO,iBAAQ,gBAAR,CAAX,C;K;8FAGX,yB;MAAA,mC;MAAA,4D;MAAA,4B;QAOI,OAAO,wBAAa,cAAb,C;
O;KAPX,C;gGAUA,yB;MAAA,mC;MAAA,4D;MAAA,4B;QAOI,OAAO,wBAAa,cAAb,C;O;KAPX,C;gGAUA,y
B;MAAA,mC;MAAA,4D;MAAA,4B;QAOI,OAAO,wBAAa,cAAb,C;O;KAPX,C;gGAUA,yB;MAAA,mC;MAAA
,4D;MAAA,4B;QAOI,OAAO,wBAAa,cAAb,C;O;KAPX,C;gGAUA,yB;MAAA,mC;MAAA,4D;MAAA,4B;QAOI
,OAAO,wBAAa,cAAb,C;O;KAPX,C;gGAUA,yB;MAAA,mC;MAAA,4D;MAAA,4B;QAOI,OAAO,wBAAa,cAA
b,C;O;KAPX,C;gGAUA,yB;MAAA,mC;MAAA,4D;MAAA,4B;QAOI,OAAO,wBAAa,cAAb,C;O;KAPX,C;gGA
UA,yB;MAAA,mC;MAAA,4D;MAAA,4B;QAOI,OAAO,wBAAa,cAAb,C;O;KAPX,C;gGAUA,yB;MAAA,mC;M
AAA,4D;MAAA,4B;QAOI,OAAO,wBAAa,cAAb,C;O;KAPX,C;IAUA,2C;MAMI,IA+kKO,qBAAQ,CA/kKf,C;Q
ACI,OAAO,I;MACX,OAAO,UAAI,MAAO,iBAAQ,gBAAR,CAAX,C;K;IAGX,2C;MAMI,IA4kKO,qBAAQ,CA5
kKf,C;QACI,OAAO,I;MACX,OAAO,UAAI,MAAO,iBAAQ,gBAAR,CAAX,C;K;IAGX,4C;MAMI,IAykKO,qBA
AQ,CAzkKf,C;QACI,OAAO,I;MACX,OAAO,UAAI,MAAO,iBAAQ,gBAAR,CAAX,C;K;IAGX,4C;MAMI,IAsk
KO,qBAAQ,CAtkKf,C;QACI,OAAO,I;MACX,OAAO,UAAI,MAAO,iBAAQ,gBAAR,CAAX,C;K;IAGX,4C;MA
MI,IAmkKO,qBAAQ,CAnkKf,C;QACI,OAAO,I;MACX,OAAO,UAAI,MAAO,iBAAQ,gBAAR,CAAX,C;K;IAG
X,4C;MAMI,IAgkKO,qBAAQ,CAhkKf,C;QACI,OAAO,I;MACX,OAAO,UAAI,MAAO,iBAAQ,gBAAR,CAAX,
C;K;IAGX,4C;MAMI,IA6jKO,qBAAQ,CA7jKf,C;QACI,OAAO,I;MACX,OAAO,UAAI,MAAO,iBAAQ,gBAAR,
CAAX,C;K;IAGX,4C;MAMI,IA0jKO,qBAAQ,CA1jKf,C;QACI,OAAO,I;MACX,OAAO,UAAI,MAAO,iBAAQ,g
BAAR,CAAX,C;K;IAGX,4C;MAMI,IAujKO,qBAAQ,CAvjKf,C;QACI,OAAO,I;MACX,OAAO,UAAI,MAAO,iB
AAQ,gBAAR,CAAX,C;K;IAGX,2B;MAIiB,IAAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,MAAM,2BAAu
B,iBAAvB,C;aACX,C;UAAK,iBAAK,CAAL,C;UAAL,K;gBACQ,MAAM,gCAAyB,kCAAzB,C;;MAHlB,W;K;I
AOJ,6B;MAIiB,IAAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,MAAM,2BAAuB,iBAAvB,C;aACX,C;UAA
K,iBAAK,CAAL,C;UAAL,K;gBACQ,MAAM,gCAAyB,kCAAzB,C;;MAHlB,W;K;IAOJ,6B;MAIiB,IAAN,I;MA
AA,QAAM,gBAAN,C;aACH,C;UAAK,MAAM,2BAAuB,iBAAvB,C;aACX,C;UAAK,iBAAK,CAAL,C;UAAL,K

;gBACQ,MAAM,gCAAyB,kCAAzB,C;;MAHlB,W;K;IAOJ,6B;MAIiB,IAAN,I;MAAA,QAAM,gBAAN,C;aACH,
C;UAAK,MAAM,2BAAuB,iBAAvB,C;aACX,C;UAAK,iBAAK,CAAL,C;UAAL,K;gBACQ,MAAM,gCAAyB,kC
AAzB,C;;MAHlB,W;K;IAOJ,6B;MAIiB,IAAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,MAAM,2BAAuB,iB
AAvB,C;aACX,C;UAAK,iBAAK,CAAL,C;UAAL,K;gBACQ,MAAM,gCAAyB,kCAAzB,C;;MAHlB,W;K;IAOJ,
6B;MAIiB,IAAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,MAAM,2BAAuB,iBAAvB,C;aACX,C;UAAK,iBA
AK,CAAL,C;UAAL,K;gBACQ,MAAM,gCAAyB,kCAAzB,C;;MAHlB,W;K;IAOJ,6B;MAIiB,IAAN,I;MAAA,QA
AM,gBAAN,C;aACH,C;UAAK,MAAM,2BAAuB,iBAAvB,C;aACX,C;UAAK,iBAAK,CAAL,C;UAAL,K;gBAC
Q,MAAM,gCAAyB,kCAAzB,C;;MAHlB,W;K;IAOJ,6B;MAIiB,IAAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UA
AK,MAAM,2BAAuB,iBAAvB,C;aACX,C;UAAK,iBAAK,CAAL,C;UAAL,K;gBACQ,MAAM,gCAAyB,kCAAz
B,C;;MAHlB,W;K;IAOJ,6B;MAIiB,IAAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,MAAM,2BAAuB,iBAAv
B,C;aACX,C;UAAK,iBAAK,CAAL,C;UAAL,K;gBACQ,MAAM,gCAAyB,kCAAzB,C;;MAHlB,W;K;oFAOJ,yB;
MAAA,kF;MAAA,iE;MAAA,gB;MAAA,8B;MAAA,uC;QAMoB,UAST,M;QAXP,aAAiB,I;QACjB,YAAY,K;QA
CZ,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,IAAI,UAAU,OAAV,CAAJ,C;YACI,IAAI,KAAJ,C;cA
AW,MAAM,8BAAyB,gDAAzB,C;YACjB,SAAS,O;YACT,QAAQ,I;;QAGhB,IAAI,CAAC,KAAL,C;UAAY,MA
AM,gCAAuB,mDAAvB,C;QAElB,OAAO,6E;O;KAfX,C;oFAkBA,yB;MAAA,kF;MAAA,iE;MAAA,8B;MAAA,u
C;QAMoB,UAST,M;QAXP,aAAoB,I;QACpB,YAAY,K;QACZ,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;
UACI,IAAI,UAAU,OAAV,CAAJ,C;YACI,IAAI,KAAJ,C;cAAW,MAAM,8BAAyB,gDAAzB,C;YACjB,SAAS,O;
YACT,QAAQ,I;;QAGhB,IAAI,CAAC,KAAL,C;UAAY,MAAM,gCAAuB,mDAAvB,C;QAElB,OAAO,2D;O;KAf
X,C;qFAkBA,yB;MAAA,kF;MAAA,iE;MAAA,8B;MAAA,uC;QAMoB,UAST,M;QAXP,aAAqB,I;QACrB,YAA
Y,K;QACZ,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,IAAI,UAAU,OAAV,CAAJ,C;YACI,IAAI,KA
AJ,C;cAAW,MAAM,8BAAyB,gDAAzB,C;YACjB,SAAS,O;YACT,QAAQ,I;;QAGhB,IAAI,CAAC,KAAL,C;UA
AY,MAAM,gCAAuB,mDAAvB,C;QAElB,OAAO,2D;O;KAfX,C;qFAkBA,yB;MAAA,kF;MAAA,iE;MAAA,8B;
MAAA,uC;QAMoB,UAST,M;QAXP,aAAmB,I;QACnB,YAAY,K;QACZ,wBAAgB,SAAhB,gB;UAAgB,cAAA,S
AAhB,M;UACI,IAAI,UAAU,OAAV,CAAJ,C;YACI,IAAI,KAAJ,C;cAAW,MAAM,8BAAyB,gDAAzB,C;YACjB,
SAAS,O;YACT,QAAQ,I;;QAGhB,IAAI,CAAC,KAAL,C;UAAY,MAAM,gCAAuB,mDAAvB,C;QAElB,OAAO,2
D;O;KAfX,C;qFAkBA,yB;MAAA,kF;MAAA,iE;MAAA,8B;MAAA,uC;QAMoB,UAST,M;QAXP,aAAoB,I;QAC
pB,YAAY,K;QACZ,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,IAAI,UAAU,OAAV,CAAJ,C;YACI,I
AAI,KAAJ,C;cAAW,MAAM,8BAAyB,gDAAzB,C;YACjB,SAAS,O;YACT,QAAQ,I;;QAGhB,IAAI,CAAC,KAA
L,C;UAAY,MAAM,gCAAuB,mDAAvB,C;QAElB,OAAO,iE;O;KAfX,C;qFAkBA,yB;MAAA,kF;MAAA,iE;MA
AA,8B;MAAA,uC;QAMoB,UAST,M;QAXP,aAAqB,I;QACrB,YAAY,K;QACZ,wBAAgB,SAAhB,gB;UAAgB,c
AAA,SAAhB,M;UACI,IAAI,UAAU,OAAV,CAAJ,C;YACI,IAAI,KAAJ,C;cAAW,MAAM,8BAAyB,gDAAzB,C;
YACjB,SAAS,O;YACT,QAAQ,I;;QAGhB,IAAI,CAAC,KAAL,C;UAAY,MAAM,gCAAuB,mDAAvB,C;QAElB,
OAAO,2D;O;KAfX,C;qFAkBA,yB;MAAA,kF;MAAA,iE;MAAA,8B;MAAA,uC;QAMoB,UAST,M;QAXP,aAAs
B,I;QACtB,YAAY,K;QACZ,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,IAAI,UAAU,OAAV,CAAJ,
C;YACI,IAAI,KAAJ,C;cAAW,MAAM,8BAAyB,gDAAzB,C;YACjB,SAAS,O;YACT,QAAQ,I;;QAGhB,IAAI,CA
AC,KAAL,C;UAAY,MAAM,gCAAuB,mDAAvB,C;QAElB,OAAO,2D;O;KAfX,C;qFAkBA,yB;MAAA,kF;MAA
A,iE;MAAA,8B;MAAA,uC;QAMoB,UAST,M;QAXP,aAAuB,I;QACvB,YAAY,K;QACZ,wBAAgB,SAAhB,gB;U
AAgB,cAAA,SAAhB,M;UACI,IAAI,UAAU,OAAV,CAAJ,C;YACI,IAAI,KAAJ,C;cAAW,MAAM,8BAAyB,gDA
AzB,C;YACjB,SAAS,O;YACT,QAAQ,I;;QAGhB,IAAI,CAAC,KAAL,C;UAAY,MAAM,gCAAuB,mDAAvB,C;Q
AElB,OAAO,4D;O;KAfX,C;qFAkBA,yB;MAAA,oC;MAAA,kF;MAAA,gC;MAAA,iE;MAAA,8B;MAAA,uC;QA
MoB,UAST,M;QAXP,aAAoB,I;QACpB,YAAY,K;QACZ,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB
,O;UACI,IAAI,UAAU,oBAAV,CAAJ,C;YACI,IAAI,KAAJ,C;cAAW,MAAM,8BAAyB,gDAAzB,C;YACjB,SAA
S,O;YACT,QAAQ,I;;QAGhB,IAAI,CAAC,KAAL,C;UAAY,MAAM,gCAAuB,mDAAvB,C;QAElB,OAAO,4E;O;
KAfX,C;IAkBA,iC;MAII,OAAW,qBAAQ,CAAZ,GAAe,UAAK,CAAL,CAAf,GAA4B,I;K;IAGvC,mC;MAII,OA
AW,qBAAQ,CAAZ,GAAe,UAAK,CAAL,CAAf,GAA4B,I;K;IAGvC,mC;MAII,OAAW,qBAAQ,CAAZ,GAAe,U
AAK,CAAL,CAAf,GAA4B,I;K;IAGvC,mC;MAII,OAAW,qBAAQ,CAAZ,GAAe,UAAK,CAAL,CAAf,GAA4B,I;
K;IAGvC,mC;MAII,OAAW,qBAAQ,CAAZ,GAAe,UAAK,CAAL,CAAf,GAA4B,I;K;IAGvC,mC;MAII,OAAW,q
BAAQ,CAAZ,GAAe,UAAK,CAAL,CAAf,GAA4B,I;K;IAGvC,mC;MAII,OAAW,qBAAQ,CAAZ,GAAe,UAAK,

CAAL,CAAf,GAA4B,I;K;IAGvC,mC;MAII,OAAW,qBAAQ,CAAZ,GAAe,UAAK,CAAL,CAAf,GAA4B,I;K;IA
GvC,mC;MAII,OAAW,qBAAQ,CAAZ,GAAe,UAAK,CAAL,CAAf,GAA4B,I;K;gGAGvC,gC;MAMoB,Q;MAFh
B,aAAiB,I;MACjB,YAAY,K;MACZ,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,IAAI,UAAU,OAAV
,CAAJ,C;UACI,IAAI,KAAJ,C;YAAW,OAAO,I;UAClB,SAAS,O;UACT,QAAQ,I;;MAGhB,IAAI,CAAC,KAAL,
C;QAAY,OAAO,I;MACnB,OAAO,M;K;gGAGX,gC;MAMoB,Q;MAFhB,aAAoB,I;MACpB,YAAY,K;MACZ,wB
AAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,IAAI,UAAU,OAAV,CAAJ,C;UACI,IAAI,KAAJ,C;YAAW,O
AAO,I;UAClB,SAAS,O;UACT,QAAQ,I;;MAGhB,IAAI,CAAC,KAAL,C;QAAY,OAAO,I;MACnB,OAAO,M;K;i
GAGX,gC;MAMoB,Q;MAFhB,aAAqB,I;MACrB,YAAY,K;MACZ,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,
M;QACI,IAAI,UAAU,OAAV,CAAJ,C;UACI,IAAI,KAAJ,C;YAAW,OAAO,I;UAClB,SAAS,O;UACT,QAAQ,I;;
MAGhB,IAAI,CAAC,KAAL,C;QAAY,OAAO,I;MACnB,OAAO,M;K;iGAGX,gC;MAMoB,Q;MAFhB,aAAmB,I;
MACnB,YAAY,K;MACZ,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,IAAI,UAAU,OAAV,CAAJ,C;
UACI,IAAI,KAAJ,C;YAAW,OAAO,I;UAClB,SAAS,O;UACT,QAAQ,I;;MAGhB,IAAI,CAAC,KAAL,C;QAAY,
OAAO,I;MACnB,OAAO,M;K;iGAGX,gC;MAMoB,Q;MAFhB,aAAoB,I;MACpB,YAAY,K;MACZ,wBAAgB,SA
AhB,gB;QAAgB,cAAA,SAAhB,M;QACI,IAAI,UAAU,OAAV,CAAJ,C;UACI,IAAI,KAAJ,C;YAAW,OAAO,I;U
AClB,SAAS,O;UACT,QAAQ,I;;MAGhB,IAAI,CAAC,KAAL,C;QAAY,OAAO,I;MACnB,OAAO,M;K;iGAGX,g
C;MAMoB,Q;MAFhB,aAAqB,I;MACrB,YAAY,K;MACZ,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI
,IAAI,UAAU,OAAV,CAAJ,C;UACI,IAAI,KAAJ,C;YAAW,OAAO,I;UAClB,SAAS,O;UACT,QAAQ,I;;MAGhB,I
AAI,CAAC,KAAL,C;QAAY,OAAO,I;MACnB,OAAO,M;K;iGAGX,gC;MAMoB,Q;MAFhB,aAAsB,I;MACtB,Y
AAY,K;MACZ,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,IAAI,UAAU,OAAV,CAAJ,C;UACI,IAAI,
KAAJ,C;YAAW,OAAO,I;UAClB,SAAS,O;UACT,QAAQ,I;;MAGhB,IAAI,CAAC,KAAL,C;QAAY,OAAO,I;MA
CnB,OAAO,M;K;iGAGX,gC;MAMoB,Q;MAFhB,aAAuB,I;MACvB,YAAY,K;MACZ,wBAAgB,SAAhB,gB;QA
AgB,cAAA,SAAhB,M;QACI,IAAI,UAAU,OAAV,CAAJ,C;UACI,IAAI,KAAJ,C;YAAW,OAAO,I;UAClB,SAAS,
O;UACT,QAAQ,I;;MAGhB,IAAI,CAAC,KAAL,C;QAAY,OAAO,I;MACnB,OAAO,M;K;iGAGX,yB;MAAA,oC;
MAAA,gC;MAAA,uC;QAMoB,Q;QAFhB,aAAoB,I;QACpB,YAAY,K;QACZ,wBAAgB,SAAhB,gB;UAAgB,cA
AhB,UAAgB,SAAhB,O;UACI,IAAI,UAAU,oBAAV,CAAJ,C;YACI,IAAI,KAAJ,C;cAAW,OAAO,I;YAClB,SAA
S,O;YACT,QAAQ,I;;QAGhB,IAAI,CAAC,KAAL,C;UAAY,OAAO,I;QACnB,OAAO,M;O;KAdX,C;IAiBA,4B;M
cvqGI,IAAI,Ed+qGI,KAAK,Cc/qGT,CAAJ,C;QACI,cd8qGc,sD;Qc7qGd,MAAM,gCAAyB,OAAQ,WAAjC,C;Od
8qGV,OAAO,oBAAoB,gBAAV,mBAAO,CAAP,IAAU,EAAc,CAAd,CAApB,C;K;IAGX,8B;McnrGI,IAAI,Ed2rG
I,KAAK,Cc3rGT,CAAJ,C;QACI,cd0rGc,sD;QczrGd,MAAM,gCAAyB,OAAQ,WAAjC,C;Od0rGV,OAAO,sBAAo
B,gBAAV,mBAAO,CAAP,IAAU,EAAc,CAAd,CAApB,C;K;IAGX,8B;Mc/rGI,IAAI,EdusGI,KAAK,CcvsGT,CA
AJ,C;QACI,cdssGc,sD;QcrsGd,MAAM,gCAAyB,OAAQ,WAAjC,C;OdssGV,OAAO,sBAAoB,gBAAV,mBAAO,
CAAP,IAAU,EAAc,CAAd,CAApB,C;K;IAGX,8B;Mc3sGI,IAAI,EdmtGI,KAAK,CcntGT,CAAJ,C;QACI,cdktGc,
sD;QcjtGd,MAAM,gCAAyB,OAAQ,WAAjC,C;OdktGV,OAAO,sBAAoB,gBAAV,mBAAO,CAAP,IAAU,EAAc,
CAAd,CAApB,C;K;IAGX,8B;McvtGI,IAAI,Ed+tGI,KAAK,Cc/tGT,CAAJ,C;QACI,cd8tGc,sD;Qc7tGd,MAAM,g
CAAyB,OAAQ,WAAjC,C;Od8tGV,OAAO,sBAAoB,gBAAV,mBAAO,CAAP,IAAU,EAAc,CAAd,CAApB,C;K;I
AGX,8B;McnuGI,IAAI,Ed2uGI,KAAK,Cc3uGT,CAAJ,C;QACI,cd0uGc,sD;QczuGd,MAAM,gCAAyB,OAAQ,W
AAjC,C;Od0uGV,OAAO,sBAAoB,gBAAV,mBAAO,CAAP,IAAU,EAAc,CAAd,CAApB,C;K;IAGX,8B;Mc/uGI,I
AAI,EduvGI,KAAK,CcvvGT,CAAJ,C;QACI,cdsvGc,sD;QcrvGd,MAAM,gCAAyB,OAAQ,WAAjC,C;OdsvGV,O
AAO,sBAAoB,gBAAV,mBAAO,CAAP,IAAU,EAAc,CAAd,CAApB,C;K;IAGX,8B;Mc3vGI,IAAI,EdmwGI,KAA
K,CcnwGT,CAAJ,C;QACI,cdkwGc,sD;QcjwGd,MAAM,gCAAyB,OAAQ,WAAjC,C;OdkwGV,OAAO,sBAAoB,g
BAAV,mBAAO,CAAP,IAAU,EAAc,CAAd,CAApB,C;K;IAGX,8B;McvwGI,IAAI,Ed+wGI,KAAK,Cc/wGT,CAA
J,C;QACI,cd8wGc,sD;Qc7wGd,MAAM,gCAAyB,OAAQ,WAAjC,C;Od8wGV,OAAO,sBAAoB,gBAAV,mBAAO
,CAAP,IAAU,EAAc,CAAd,CAApB,C;K;IAGX,gC;McnxGI,IAAI,Ed2xGI,KAAK,Cc3xGT,CAAJ,C;QACI,cd0xG
c,sD;QczxGd,MAAM,gCAAyB,OAAQ,WAAjC,C;Od0xGV,OAAO,gBAAgB,gBAAV,mBAAO,CAAP,IAAU,EA
Ac,CAAd,CAAhB,C;K;IAGX,kC;Mc/xGI,IAAI,EduyGI,KAAK,CcvyGT,CAAJ,C;QACI,cdsyGc,sD;QcryGd,MAA
M,gCAAyB,OAAQ,WAAjC,C;OdsyGV,OAAO,kBAAgB,gBAAV,mBAAO,CAAP,IAAU,EAAc,CAAd,CAAhB,C
;K;IAGX,kC;Mc3yGI,IAAI,EdmzGI,KAAK,CcnzGT,CAAJ,C;QACI,cdkzGc,sD;QcjzGd,MAAM,gCAAyB,OAAQ
,WAAjC,C;OdkzGV,OAAO,kBAAgB,gBAAV,mBAAO,CAAP,IAAU,EAAc,CAAd,CAAhB,C;K;IAGX,kC;Mcvz

GI,IAAI,Ed+zGI,KAAK,Cc/zGT,CAAJ,C;QACI,cd8zGc,sD;Qc7zGd,MAAM,gCAAyB,OAAQ,WAAjC,C;Od8zG
V,OAAO,kBAAgB,gBAAV,mBAAO,CAAP,IAAU,EAAc,CAAd,CAAhB,C;K;IAGX,kC;Mcn0GI,IAAI,Ed20GI,K
AAK,Cc30GT,CAAJ,C;QACI,cd00Gc,sD;Qcz0Gd,MAAM,gCAAyB,OAAQ,WAAjC,C;Od00GV,OAAO,kBAAg
B,gBAAV,mBAAO,CAAP,IAAU,EAAc,CAAd,CAAhB,C;K;IAGX,kC;Mc/0GI,IAAI,Edu1GI,KAAK,Ccv1GT,CA
AJ,C;QACI,cds1Gc,sD;Qcr1Gd,MAAM,gCAAyB,OAAQ,WAAjC,C;Ods1GV,OAAO,kBAAgB,gBAAV,mBAAO,
CAAP,IAAU,EAAc,CAAd,CAAhB,C;K;IAGX,kC;Mc31GI,IAAI,Edm2GI,KAAK,Ccn2GT,CAAJ,C;QACI,cdk2G
c,sD;Qcj2Gd,MAAM,gCAAyB,OAAQ,WAAjC,C;Odk2GV,OAAO,kBAAgB,gBAAV,mBAAO,CAAP,IAAU,EA
Ac,CAAd,CAAhB,C;K;IAGX,kC;Mcv2GI,IAAI,Ed+2GI,KAAK,Cc/2GT,CAAJ,C;QACI,cd82Gc,sD;Qc72Gd,MA
AM,gCAAyB,OAAQ,WAAjC,C;Od82GV,OAAO,kBAAgB,gBAAV,mBAAO,CAAP,IAAU,EAAc,CAAd,CAAhB
,C;K;IAGX,kC;Mcn3GI,IAAI,Ed23GI,KAAK,Cc33GT,CAAJ,C;QACI,cd03Gc,sD;Qcz3Gd,MAAM,gCAAyB,OA
AQ,WAAjC,C;Od03GV,OAAO,kBAAgB,gBAAV,mBAAO,CAAP,IAAU,EAAc,CAAd,CAAhB,C;K;gGAGX,yB;
MAAA,8D;MAAA,4C;MAAA,qD;MAAA,uC;QAMI,iBAAc,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UA
AU,UAAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;QAGf,OAAO,W;O;KAXX,C;
kGAcA,yB;MAAA,8D;MAAA,2C;MAAA,qD;MAAA,uC;QAMI,iBAAc,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,
CAAC,UAAU,UAAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;QAGf,OAAO,W;O
;KAXX,C;kGAcA,yB;MAAA,8D;MAAA,4C;MAAA,qD;MAAA,uC;QAMI,iBAAc,wBAAd,WAA+B,CAA/B,U;U
ACI,IAAI,CAAC,UAAU,UAAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;QAGf,O
AAO,W;O;KAXX,C;kGAcA,yB;MAAA,8D;MAAA,4C;MAAA,qD;MAAA,uC;QAMI,iBAAc,wBAAd,WAA+B,C
AA/B,U;UACI,IAAI,CAAC,UAAU,UAAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,
C;;QAGf,OAAO,W;O;KAXX,C;kGAcA,yB;MAAA,8D;MAAA,4C;MAAA,qD;MAAA,uC;QAMI,iBAAc,wBAAd
,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,UAAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,CA
AR,IAAL,C;;QAGf,OAAO,W;O;KAXX,C;kGAcA,yB;MAAA,8D;MAAA,4C;MAAA,qD;MAAA,uC;QAMI,iBA
Ac,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,UAAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK
,QAAQ,CAAR,IAAL,C;;QAGf,OAAO,W;O;KAXX,C;kGAcA,yB;MAAA,8D;MAAA,4C;MAAA,qD;MAAA,uC;
QAMI,iBAAc,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,UAAK,KAAL,CAAV,CAAL,C;YACI,OA
AO,gBAAK,QAAQ,CAAR,IAAL,C;;QAGf,OAAO,W;O;KAXX,C;kGAcA,yB;MAAA,8D;MAAA,4C;MAAA,qD;
MAAA,uC;QAMI,iBAAc,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,UAAK,KAAL,CAAV,CAAL,C
;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;QAGf,OAAO,W;O;KAXX,C;kGAcA,yB;MAAA,8D;MAAA,oC;
MAAA,4C;MAAA,qD;MAAA,uC;QAMI,iBAAc,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,sBAAK,
KAAL,EAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;QAGf,OAAO,W;O;KAXX,C;wFAcA,yB;
MAAA,+D;MAAA,uC;QAQiB,Q;QAFb,eAAe,K;QACf,WAAW,gB;QACX,wBAAa,SAAb,gB;UAAa,WAAA,SA
Ab,M;UACI,IAAI,QAAJ,C;YACI,IAAK,WAAI,IAAJ,C;eACJ,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACD,IAAK,
WAAI,IAAJ,C;YACL,WAAW,I;;QAEnB,OAAO,I;O;KAfX,C;0FAkBA,yB;MAAA,+D;MAAA,uC;QAQiB,Q;QA
Fb,eAAe,K;QACf,WAAW,gB;QACX,wBAAa,SAAb,gB;UAAa,WAAA,SAAb,M;UACI,IAAI,QAAJ,C;YACI,IA
AK,WAAI,IAAJ,C;eACJ,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACD,IAAK,WAAI,IAAJ,C;YACL,WAAW,I;;QA
EnB,OAAO,I;O;KAfX,C;0FAkBA,yB;MAAA,+D;MAAA,uC;QAQiB,Q;QAFb,eAAe,K;QACf,WAAW,gB;QACX
,wBAAa,SAAb,gB;UAAa,WAAA,SAAb,M;UACI,IAAI,QAAJ,C;YACI,IAAK,WAAI,IAAJ,C;eACJ,IAAI,CAAC,
UAAU,IAAV,CAAL,C;YACD,IAAK,WAAI,IAAJ,C;YACL,WAAW,I;;QAEnB,OAAO,I;O;KAfX,C;0FAkBA,yB;
MAAA,+D;MAAA,uC;QAQiB,Q;QAFb,eAAe,K;QACf,WAAW,gB;QACX,wBAAa,SAAb,gB;UAAa,WAAA,SA
Ab,M;UACI,IAAI,QAAJ,C;YACI,IAAK,WAAI,IAAJ,C;eACJ,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACD,IAAK,
WAAI,IAAJ,C;YACL,WAAW,I;;QAEnB,OAAO,I;O;KAfX,C;0FAkBA,yB;MAAA,+D;MAAA,uC;QAQiB,Q;QA
Fb,eAAe,K;QACf,WAAW,gB;QACX,wBAAa,SAAb,gB;UAAa,WAAA,SAAb,M;UACI,IAAI,QAAJ,C;YACI,IA
AK,WAAI,IAAJ,C;eACJ,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACD,IAAK,WAAI,IAAJ,C;YACL,WAAW,I;;QA
EnB,OAAO,I;O;KAfX,C;0FAkBA,yB;MAAA,+D;MAAA,uC;QAQiB,Q;QAFb,eAAe,K;QACf,WAAW,gB;QACX
,wBAAa,SAAb,gB;UAAa,WAAA,SAAb,M;UACI,IAAI,QAAJ,C;YACI,IAAK,WAAI,IAAJ,C;eACJ,IAAI,CAAC,
UAAU,IAAV,CAAL,C;YACD,IAAK,WAAI,IAAJ,C;YACL,WAAW,I;;QAEnB,OAAO,I;O;KAfX,C;0FAkBA,yB;
MAAA,+D;MAAA,uC;QAQiB,Q;QAFb,eAAe,K;QACf,WAAW,gB;QACX,wBAAa,SAAb,gB;UAAa,WAAA,SA
Ab,M;UACI,IAAI,QAAJ,C;YACI,IAAK,WAAI,IAAJ,C;eACJ,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACD,IAAK,

WAAI,IAAJ,C;YACL,WAAW,I;;QAEnB,OAAO,I;O;KAfX,C;0FAkBA,yB;MAAA,+D;MAAA,uC;QAQiB,Q;QA
Fb,eAAe,K;QACf,WAAW,gB;QACX,wBAAa,SAAb,gB;UAAa,WAAA,SAAb,M;UACI,IAAI,QAAJ,C;YACI,IA
AK,WAAI,IAAJ,C;eACJ,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACD,IAAK,WAAI,IAAJ,C;YACL,WAAW,I;;QA
EnB,OAAO,I;O;KAfX,C;0FAkBA,yB;MAAA,+D;MAAA,oC;MAAA,gC;MAAA,uC;QAQiB,Q;QAFb,eAAe,K;Q
ACf,WAAW,gB;QACX,wBAAa,SAAb,gB;UAAa,WAAb,UAAa,SAAb,O;UACI,IAAI,QAAJ,C;YACI,IAAK,WA
AI,iBAAJ,C;eACJ,IAAI,CAAC,UAAU,iBAAV,CAAL,C;YACD,IAAK,WAAI,iBAAJ,C;YACL,WAAW,I;;QAEn
B,OAAO,I;O;KAfX,C;kFAkBA,yB;MAAA,+D;MAAA,uC;QAMW,kBAAS,gB;QAmgBA,Q;QAAhB,iD;UAAgB,
cAAhB,e;UAAsB,IAngBU,SAmgBN,CAAU,OAAV,CAAJ,C;YAAwB,WAAY,WAAI,OAAJ,C;;QAngB1D,OAog
BO,W;O;KA1gBX,C;oFASA,yB;MAAA,+D;MAAA,uC;QAMW,kBAAS,gB;QAogBA,Q;QAAhB,iD;UAAgB,cA
AhB,e;UAAsB,IApgBa,SAogBT,CAAU,OAAV,CAAJ,C;YAAwB,WAAY,WAAI,OAAJ,C;;QApgB1D,OAqgBO,
W;O;KA3gBX,C;oFASA,yB;MAAA,+D;MAAA,uC;QAMW,kBAAS,gB;QAqgBA,Q;QAAhB,iD;UAAgB,cAAhB
,e;UAAsB,IArgBc,SAqgBV,CAAU,OAAV,CAAJ,C;YAAwB,WAAY,WAAI,OAAJ,C;;QArgB1D,OAsgBO,W;O;
KA5gBX,C;oFASA,yB;MAAA,+D;MAAA,uC;QAMW,kBAAS,gB;QAsgBA,Q;QAAhB,iD;UAAgB,cAAhB,e;UA
AsB,IAtgBY,SAsgBR,CAAU,OAAV,CAAJ,C;YAAwB,WAAY,WAAI,OAAJ,C;;QAtgB1D,OAugBO,W;O;KA7g
BX,C;oFASA,yB;MAAA,+D;MAAA,uC;QAMW,kBAAS,gB;QAugBA,Q;QAAhB,iD;UAAgB,cAAhB,e;UAAsB,I
AvgBa,SAugBT,CAAU,OAAV,CAAJ,C;YAAwB,WAAY,WAAI,OAAJ,C;;QAvgB1D,OAwgBO,W;O;KA9gBX,
C;oFASA,yB;MAAA,+D;MAAA,uC;QAMW,kBAAS,gB;QAwgBA,Q;QAAhB,iD;UAAgB,cAAhB,e;UAAsB,IAx
gBc,SAwgBV,CAAU,OAAV,CAAJ,C;YAAwB,WAAY,WAAI,OAAJ,C;;QAxgB1D,OAygBO,W;O;KA/gBX,C;o
FASA,yB;MAAA,+D;MAAA,uC;QAMW,kBAAS,gB;QAygBA,Q;QAAhB,iD;UAAgB,cAAhB,e;UAAsB,IAzgBe,
SAygBX,CAAU,OAAV,CAAJ,C;YAAwB,WAAY,WAAI,OAAJ,C;;QAzgB1D,OA0gBO,W;O;KAhhBX,C;oFAS
A,yB;MAAA,+D;MAAA,uC;QAMW,kBAAS,gB;QA0gBA,Q;QAAhB,iD;UAAgB,cAAhB,e;UAAsB,IA1gBgB,S
A0gBZ,CAAU,OAAV,CAAJ,C;YAAwB,WAAY,WAAI,OAAJ,C;;QA1gB1D,OA2gBO,W;O;KAjhBX,C;oFASA,
yB;MAAA,+D;MA2gBA,oC;MAAA,gC;MA3gBA,uC;QAMW,kBAAS,gB;QA2gBA,Q;QAAhB,iD;UAAgB,cAAh
B,0B;UAAsB,IA3gBa,SA2gBT,CAAU,oBAAV,CAAJ,C;YAAwB,WAAY,WAAI,oBAAJ,C;;QA3gB1D,OA4gBO,
W;O;KAlhBX,C;gGASA,yB;MAAA,+D;MAAA,uC;QAQW,kBAAAgB,gB;QAsgTV,gB;QADb,YAAY,C;QACZ,iD
;UAAa,WAAb,e;UAl6SI,IApGmC,SAoG/B,EAk6SkB,cAl6SlB,EAk6SkB,sBAl6SlB,WAk6S2B,IAl6S3B,CAAJ,C;
YAA2C,sBAk6SZ,IAl6SY,C;;QApG/C,OAsGO,W;O;KA9GX,C;kGAWA,yB;MAAA,+D;MAAA,uC;QAQW,kBA
AgB,gB;QAqgTV,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UA95SI,IAvGsC,SAuGlC,EA85SkB,cA95SlB,E
A85SkB,sBA95SlB,WA85S2B,IA95S3B,CAAJ,C;YAA2C,sBA85SZ,IA95SY,C;;QAvG/C,OAyGO,W;O;KAjHX,
C;kGAWA,yB;MAAA,+D;MAAA,uC;QAQW,kBAAAgB,gB;QAogTV,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAA
b,e;UA15SI,IA1GuC,SA0GnC,EA05SkB,cA15SlB,EA05SkB,sBA15SlB,WA05S2B,IA15S3B,CAAJ,C;YAA2C,sB
A05SZ,IA15SY,C;;QA1G/C,OA4GO,W;O;KApHX,C;kGAWA,yB;MAAA,+D;MAAA,uC;QAQW,kBAAAgB,gB;Q
AmgTV,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UAt5SI,IA7GqC,SA6GjC,EAs5SkB,cAt5SlB,EAs5SkB,s
BAt5SlB,WAs5S2B,IAt5S3B,CAAJ,C;YAA2C,sBAs5SZ,IAt5SY,C;;QA7G/C,OA+GO,W;O;KAvHX,C;kGAWA,
yB;MAAA,+D;MAAA,uC;QAQW,kBAAAgB,gB;QAkgTV,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UAl5SI,
IAhHsC,SAgHlC,EAk5SkB,cAl5SlB,EAk5SkB,sBAl5SlB,WAk5S2B,IAl5S3B,CAAJ,C;YAA2C,sBAk5SZ,IAl5S
Y,C;;QAhH/C,OAkHO,W;O;KA1HX,C;kGAWA,yB;MAAA,+D;MAAA,uC;QAQW,kBAAAgB,gB;QAigTV,gB;Q
ADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UA94SI,IAnHuC,SAmHnC,EA84SkB,cA94SlB,EA84SkB,sBA94SlB,W
A84S2B,IA94S3B,CAAJ,C;YAA2C,sBA84SZ,IA94SY,C;;QAnH/C,OAqHO,W;O;KA7HX,C;kGAWA,yB;MAAA
,+D;MAAA,uC;QAQW,kBAAAgB,gB;QAggTV,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UA14SI,IAtHwC,S
AsHpC,EA04SkB,cA14SlB,EA04SkB,sBA14SlB,WA04S2B,IA14S3B,CAAJ,C;YAA2C,sBA04SZ,IA14SY,C;;QA
tH/C,OAwHO,W;O;KAhIX,C;kGAWA,yB;MAAA,+D;MAAA,uC;QAQW,kBAAAgB,gB;QA+/SV,gB;QADb,YAA
Y,C;QACZ,iD;UAAa,WAAb,e;UAt4SI,IAzHyC,SAyHrC,EAs4SkB,cAt4SlB,EAs4SkB,sBAt4SlB,WAs4S2B,IAt4
S3B,CAAJ,C;YAA2C,sBAs4SZ,IAt4SY,C;;QAzH/C,OA2HO,W;O;KAnIX,C;kGAWA,yB;MAAA,+D;MA2HA,g
C;MAo4SA,oC;MA//SA,uC;QAQW,kBAAAgB,gB;QA8/SV,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,0B;UAA
mB,eAAO,cAAP,EAAO,sBAAP,S;UAAAA,cAAgB,iB;UAl4S/B,IA5HsC,SA4HlC,CAAU,OAAV,EAAAiB,OAAjB,
CAAJ,C;YAA2C,sBAAI,OAAJ,C;;QA5H/C,OA8HO,W;O;KAtIX,C;oGAWA,6C;MA26SiB,gB;MADb,YAAY,C;
MACZ,iD;QAAa,WAAb,e;QAl6SI,IAAI,WAk6SkB,cAl6SlB,EAk6SkB,sBAl6SlB,WAk6S2B,IAl6S3B,CAAJ,C;U

AA2C,sBAk6SZ,IAl6SY,C;;MAE/C,OAAO,W;K;qGAGX,6C;MAu6SiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,W
AAb,e;QA95SI,IAAI,WA85SkB,cA95SlB,EA85SkB,sBA95SlB,WA85S2B,IA95S3B,CAAJ,C;UAA2C,sBA85SZ,I
A95SY,C;;MAE/C,OAAO,W;K;sGAGX,6C;MAm6SiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QA15SI,I
AAI,WA05SkB,cA15SlB,EA05SkB,sBA15SlB,WA05S2B,IA15S3B,CAAJ,C;UAA2C,sBA05SZ,IA15SY,C;;MAE
/C,OAAO,W;K;qGAGX,6C;MA+5SiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAt5SI,IAAI,WAs5SkB,c
At5SlB,EAs5SkB,sBAt5SlB,WAs5S2B,IAt5S3B,CAAJ,C;UAA2C,sBAs5SZ,IAt5SY,C;;MAE/C,OAAO,W;K;sGA
GX,6C;MA25SiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAl5SI,IAAI,WAk5SkB,cAl5SlB,EAk5SkB,sB
Al5SlB,WAk5S2B,IAl5S3B,CAAJ,C;UAA2C,sBAk5SZ,IAl5SY,C;;MAE/C,OAAO,W;K;sGAGX,6C;MAu5SiB,g
B;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QA94SI,IAAI,WA84SkB,cA94SlB,EA84SkB,sBA94SlB,WA84S2
B,IA94S3B,CAAJ,C;UAA2C,sBA84SZ,IA94SY,C;;MAE/C,OAAO,W;K;sGAGX,6C;MAm5SiB,gB;MADb,YAA
Y,C;MACZ,iD;QAAa,WAAb,e;QA14SI,IAAI,WA04SkB,cA14SlB,EA04SkB,sBA14SlB,WA04S2B,IA14S3B,CA
AJ,C;UAA2C,sBA04SZ,IA14SY,C;;MAE/C,OAAO,W;K;sGAGX,6C;MA+4SiB,gB;MADb,YAAY,C;MACZ,iD;
QAAa,WAAb,e;QAt4SI,IAAI,WAs4SkB,cAt4SlB,EAs4SkB,sBAt4SlB,WAs4S2B,IAt4S3B,CAAJ,C;UAA2C,sBA
s4SZ,IAt4SY,C;;MAE/C,OAAO,W;K;sGAGX,yB;MAAA,gC;MAo4SA,oC;MAp4SA,oD;QA24SiB,gB;QADb,YA
AY,C;QACZ,iD;UAAa,WAAb,0B;UAAmB,eAAO,cAAP,EAAO,sBAAP,S;UAAA,cAAgB,iB;UAl4S/B,IAAI,UA
AU,OAAV,EAAiB,OAAjB,CAAJ,C;YAA2C,sBAAI,OAAJ,C;;QAE/C,OAAO,W;O;KAXX,C;sGAcA,yB;MAAA,
+D;MAAA,sC;QAMW,kBAAmB,gB;QASV,Q;QAAhB,iD;UAAgB,cAAhB,e;UAAsB,IAAI,YAAJ,C;YAAkB,WA
AY,WAAI,OAAJ,C;;QATpD,OAUO,W;O;KAhBX,C;0GASA,4C;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QA
AgB,cAAA,SAAhB,M;QAAsB,IAAI,YAAJ,C;UAAkB,WAAY,WAAI,OAAJ,C;;MACpD,OAAO,W;K;wFAGX,y
B;MAAA,+D;MAAA,uC;QAMW,kBAAY,gB;QAoGH,Q;QAAhB,iD;UAAgB,cAAhB,e;UAAsB,IAAI,CApGS,SA
oGR,CAAU,OAAV,CAAL,C;YAAyB,WAAY,WAAI,OAAJ,C;;QApG3D,OAqGO,W;O;KA3GX,C;0FASA,yB;M
AAA,+D;MAAA,uC;QAMW,kBAAY,gB;QAqGH,Q;QAAhB,iD;UAAgB,cAAhB,e;UAAsB,IAAI,CArGY,SAqG
X,CAAU,OAAV,CAAL,C;YAAyB,WAAY,WAAI,OAAJ,C;;QArG3D,OAsGO,W;O;KA5GX,C;0FASA,yB;MAA
A,+D;MAAA,uC;QAMW,kBAAY,gB;QAsGH,Q;QAAhB,iD;UAAgB,cAAhB,e;UAAsB,IAAI,CAtGa,SAsGZ,CA
AU,OAAV,CAAL,C;YAAyB,WAAY,WAAI,OAAJ,C;;QAtG3D,OAuGO,W;O;KA7GX,C;0FASA,yB;MAAA,+D;
MAAA,uC;QAMW,kBAAY,gB;QAuGH,Q;QAAhB,iD;UAAgB,cAAhB,e;UAAsB,IAAI,CAvGW,SAuGV,CAAU,
OAAV,CAAL,C;YAAyB,WAAY,WAAI,OAAJ,C;;QAvG3D,OAwGO,W;O;KA9GX,C;0FASA,yB;MAAA,+D;M
AAA,uC;QAMW,kBAAY,gB;QAwGH,Q;QAAhB,iD;UAAgB,cAAhB,e;UAAsB,IAAI,CAxGY,SAwGX,CAAU,O
AAV,CAAL,C;YAAyB,WAAY,WAAI,OAAJ,C;;QAxG3D,OAyGO,W;O;KA/GX,C;0FASA,yB;MAAA,+D;MAA
A,uC;QAMW,kBAAY,gB;QAyGH,Q;QAAhB,iD;UAAgB,cAAhB,e;UAAsB,IAAI,CAzGa,SAyGZ,CAAU,OAAV,
CAAL,C;YAAyB,WAAY,WAAI,OAAJ,C;;QAzG3D,OA0GO,W;O;KAhHX,C;0FASA,yB;MAAA,+D;MAAA,uC;
QAMW,kBAAY,gB;QA0GH,Q;QAAhB,iD;UAAgB,cAAhB,e;UAAsB,IAAI,CA1Gc,SA0Gb,CAAU,OAAV,CAA
L,C;YAAyB,WAAY,WAAI,OAAJ,C;;QA1G3D,OA2GO,W;O;KAjHX,C;0FASA,yB;MAAA,+D;MAAA,uC;QA
MW,kBAAY,gB;QA2GH,Q;QAAhB,iD;UAAgB,cAAhB,e;UAAsB,IAAI,CA3GGe,SA2Gd,CAAU,OAAV,CAAL,C;
YAAyB,WAAY,WAAI,OAAJ,C;;QA3G3D,OA4GO,W;O;KAlHX,C;0FASA,yB;MAAA,+D;MA4GA,oC;MAAA,
gC;MA5GA,uC;QAMW,kBAAY,gB;QA4GH,Q;QAAhB,iD;UAAgB,cAAhB,0B;UAAsB,IAAI,CA5GY,SA4GX,C
AAU,oBAAV,CAAL,C;YAAyB,WAAY,WAAI,oBAAJ,C;;QA5G3D,OA6GO,W;O;KAnHX,C;IASA,kC;MAMI,O
AAO,2BAAgB,gBAAhB,C;K;IAGX,iD;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QA
AsB,IAAI,eAAJ,C;UAAqB,WAAY,WAAI,OAAJ,C;;MACvD,OAAO,W;K;4FAGX,6C;MAMoB,Q;MAAhB,wBA
AgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,WAAY,WAAI
,OAAJ,C;;MAC3D,OAAO,W;K;8FAGX,6C;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,
M;QAAsB,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,WAAY,WAAI,OAAJ,C;;MAC3D,OAAO,W;K;8FAGX,
6C;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,CAAC,UAAU,OAAV,CA
AL,C;UAAyB,WAAY,WAAI,OAAJ,C;;MAC3D,OAAO,W;K;8FAGX,6C;MAMoB,Q;MAAhB,wBAAgB,SAAhB
,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,WAAY,WAAI,OAAJ,C;;M
AC3D,OAAO,W;K;8FAGX,6C;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IA
AI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,WAAY,WAAI,OAAJ,C;;MAC3D,OAAO,W;K;8FAGX,6C;MAMoB,
Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAy

B,WAAY,WAAI,OAAJ,C;;MAC3D,OAAO,W;K;8FAGX,6C;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,
cAAA,SAAhB,M;QAAsB,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,WAAY,WAAI,OAAJ,C;;MAC3D,OAA
O,W;K;8FAGX,6C;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,CAAC,U
AAU,OAAV,CAAL,C;UAAyB,WAAY,WAAI,OAAJ,C;;MAC3D,OAAO,W;K;8FAGX,yB;MAAA,oC;MAAA,gC
;MAAA,oD;QAMoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UAAsB,IAAI,CAAC,
UAAU,oBAAV,CAAL,C;YAAyB,WAAY,WAAI,oBAAJ,C;;QAC3D,OAAO,W;O;KAPX,C;sFAUA,6C;MAMoB,
Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,WA
AY,WAAI,OAAJ,C;;MAC1D,OAAO,W;K;wFAGX,6C;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAA
A,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,WAAY,WAAI,OAAJ,C;;MAC1D,OAAO,W;K;wFA
GX,6C;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ
,C;UAAwB,WAAY,WAAI,OAAJ,C;;MAC1D,OAAO,W;K;wFAGX,6C;MAMoB,Q;MAAhB,wBAAgB,SAAhB,g
B;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,WAAY,WAAI,OAAJ,C;;MAC1D,O
AAO,W;K;wFAGX,6C;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAA
U,OAAV,CAAJ,C;UAAwB,WAAY,WAAI,OAAJ,C;;MAC1D,OAAO,W;K;wFAGX,6C;MAMoB,Q;MAAhB,wB
AAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,WAAY,WAAI,OA
AJ,C;;MAC1D,OAAO,W;K;wFAGX,6C;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;Q
AAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,WAAY,WAAI,OAAJ,C;;MAC1D,OAAO,W;K;wFAGX,6C;MAMo
B,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,W
AAY,WAAI,OAAJ,C;;MAC1D,OAAO,W;K;wFAGX,yB;MAAA,oC;MAAA,gC;MAAA,oD;QAMoB,Q;QAAhB,
wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UAAsB,IAAI,UAAU,oBAAV,CAAJ,C;YAAwB,WAA
Y,WAAI,oBAAJ,C;;QAC1D,OAAO,W;O;KAPX,C;IAUA,mC;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OMhtIe,W;O
NitItC,OAA4D,OAArD,yBAAY,OAAQ,MAApB,EAA2B,OAAQ,aAAR,GAAuB,CAAvB,IAA3B,CAAqD,C;K;IA
GhE,qC;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OMxtIe,W;ONytItC,Oe7rIsC,Of6rI/B,yBAAY,OAAQ,MAApB,EA
A2B,OAAQ,aAAR,GAAuB,CAAvB,IAA3B,Ce7rI+B,C;K;IfgsI1C,qC;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OMh
uIe,W;ONiuItC,Oe7rIuC,Of6rIhC,yBAAY,OAAQ,MAApB,EAA2B,OAAQ,aAAR,GAAuB,CAAvB,IAA3B,Ce7rI
gC,C;K;IfgsI3C,qC;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OMxuIe,W;ONyuItC,Oe7rIqC,Of6rI9B,yBAAY,OAAQ,
MAApB,EAA2B,OAAQ,aAAR,GAAuB,CAAvB,IAA3B,Ce7rI8B,C;K;IfgsIzC,qC;MAII,IAAI,OAAQ,UAAZ,C;Q
AAuB,OMhvIe,W;ONivItC,Oe7rIsC,Of6rI/B,yBAAY,OAAQ,MAApB,EAA2B,OAAQ,aAAR,GAAuB,CAAvB,IA
A3B,Ce7rI+B,C;K;IfgsI1C,qC;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OMxvIe,W;ONyvItC,Oe7rIuC,Of6rIhC,yBA
AY,OAAQ,MAApB,EAA2B,OAAQ,aAAR,GAAuB,CAAvB,IAA3B,Ce7rIgC,C;K;IfgsI3C,qC;MAII,IAAI,OAAQ,
UAAZ,C;QAAuB,OMhwIe,W;ONiwItC,Oe7rIwC,Of6rIjC,yBAAY,OAAQ,MAApB,EAA2B,OAAQ,aAAR,GAAu
B,CAAvB,IAA3B,Ce7rIiC,C;K;IfgsI5C,qC;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OMxwIe,W;ONywItC,Oe7rIyC,
Of6rIlC,0BAAY,OAAQ,MAApB,EAA2B,OAAQ,aAAR,GAAuB,CAAvB,IAA3B,Ce7rIkC,C;K;IfgsI7C,qC;MAII,
IAAI,OAAQ,UAAZ,C;QAAuB,OMhxIe,W;ONixItC,OAA4D,SAArD,0BAAY,OAAQ,MAApB,EAA2B,OAAQ,a
AAR,GAAuB,CAAvB,IAA3B,CAAqD,C;K;IAGhE,qC;MAOkB,Q;MAAHd,WAAmB,wBAAR,OAAQ,EAAwB,EA
AxB,C;MACnB,IAAI,SAAQ,CAAZ,C;QAAe,OAAO,W;MACtB,WAAW,iBAAa,IAAb,C;MACG,yB;MAAd,OA
Ac,cAAd,C;QAAc,uB;QACV,IAAK,WAAI,UAAI,KAAJ,CAAJ,C;;MAET,OAAO,I;K;IAGX,qC;MAOkB,Q;MAH
d,WAAmB,wBAAR,OAAQ,EAAwB,EAAxB,C;MACnB,IAAI,SAAQ,CAAZ,C;QAAe,OAAO,W;MACtB,WAA
W,iBAAgB,IAAhB,C;MACG,yB;MAAd,OAAc,cAAd,C;QAAc,uB;QACV,IAAK,WAAI,UAAI,KAAJ,CAAJ,C;;
MAET,OAAO,I;K;IAGX,sC;MAOkB,Q;MAHd,WAAmB,wBAAR,OAAQ,EAAwB,EAAxB,C;MACnB,IAAI,SA
AQ,CAAZ,C;QAAe,OAAO,W;MACtB,WAAW,iBAAiB,IAAjB,C;MACG,yB;MAAd,OAAc,cAAd,C;QAAc,uB;Q
ACV,IAAK,WAAI,UAAI,KAAJ,CAAJ,C;;MAET,OAAO,I;K;IAGX,sC;MAOkB,Q;MAHd,WAAmB,wBAAR,OA
AQ,EAAwB,EAAxB,C;MACnB,IAAI,SAAQ,CAAZ,C;QAAe,OAAO,W;MACtB,WAAW,iBAAe,IAAf,C;MACG,
yB;MAAd,OAAc,cAAd,C;QAAc,uB;QACV,IAAK,WAAI,UAAI,KAAJ,CAAJ,C;;MAET,OAAO,I;K;IAGX,sC;M
AOkB,Q;MAHd,WAAmB,wBAAR,OAAQ,EAAwB,EAAxB,C;MACnB,IAAI,SAAQ,CAAZ,C;QAAe,OAAO,W;
MACtB,WAAW,iBAAgB,IAAhB,C;MACG,yB;MAAd,OAAc,cAAd,C;QAAc,uB;QACV,IAAK,WAAI,UAAI,KA
AJ,CAAJ,C;;MAET,OAAO,I;K;IAGX,sC;MAOkB,Q;MAHd,WAAmB,wBAAR,OAAQ,EAAwB,EAAxB,C;MAC
nB,IAAI,SAAQ,CAAZ,C;QAAe,OAAO,W;MACtB,WAAW,iBAAiB,IAAjB,C;MACG,yB;MAAd,OAAc,cAAd,C;

QAAc,uB;QACV,IAAK,WAAI,UAAI,KAAJ,CAAJ,C;;MAET,OAAO,I;K;IAGX,sC;MAOkB,Q;MAHd,WAAmB,
wBAAR,OAAQ,EAAwB,EAAxB,C;MACnB,IAAI,SAAQ,CAAZ,C;QAAe,OAAO,W;MACtB,WAAW,iBAAkB,I
AAlB,C;MACG,yB;MAAd,OAAc,cAAd,C;QAAc,uB;QACV,IAAK,WAAI,UAAI,KAAJ,CAAJ,C;;MAET,OAAO,
I;K;IAGX,sC;MAOkB,Q;MAHd,WAAmB,wBAAR,OAAQ,EAAwB,EAAxB,C;MACnB,IAAI,SAAQ,CAAZ,C;Q
AAe,OAAO,W;MACtB,WAAW,iBAAmB,IAAnB,C;MACG,yB;MAAd,OAAc,cAAd,C;QAAc,uB;QACV,IAAK,
WAAI,UAAI,KAAJ,CAAJ,C;;MAET,OAAO,I;K;IAGX,sC;MAOkB,Q;MAHd,WAAmB,wBAAR,OAAQ,EAAwB
,EAAxB,C;MACnB,IAAI,SAAQ,CAAZ,C;QAAe,OAAO,W;MACtB,WAAW,iBAAgB,IAAhB,C;MACG,yB;MA
Ad,OAAc,cAAd,C;QAAc,uB;QACV,IAAK,WAAI,sBAAI,KAAJ,EAAJ,C;;MAET,OAAO,I;K;IAGX,wC;MAMw
B,UACT,M;MAHX,aAAa,aAAa,SAAb,EAAmB,OAAQ,KAA3B,C;MACb,kBAAkB,C;MACE,yB;MAApB,OAAo
B,cAApB,C;QAAoB,6B;QAChB,OAAO,oBAAP,EAAO,4BAAP,YAAwB,UAAK,WAAL,C;;MAE5B,OAAO,M;
K;IAGX,0C;MAMwB,UACT,M;MAHX,aAAa,cAAU,OAAQ,KAAlB,C;MACb,kBAAkB,C;MACE,yB;MAApB,O
AAoB,cAApB,C;QAAoB,6B;QAChB,OAAO,oBAAP,EAAO,4BAAP,YAAwB,UAAK,WAAL,C;;MAE5B,OAAO
,M;K;IAGX,0C;MAMwB,UACT,M;MAHX,aAAa,eAAW,OAAQ,KAAnB,C;MACb,kBAAkB,C;MACE,yB;MAA
pB,OAAoB,cAApB,C;QAAoB,6B;QAChB,OAAO,oBAAP,EAAO,4BAAP,YAAwB,UAAK,WAAL,C;;MAE5B,O
AAO,M;K;IAGX,0C;MAMwB,UACT,M;MAHX,aAAa,eAAS,OAAQ,KAAjB,C;MACb,kBAAkB,C;MACE,yB;M
AApB,OAAoB,cAApB,C;QAAoB,6B;QAChB,OAAO,oBAAP,EAAO,4BAAP,YAAwB,UAAK,WAAL,C;;MAE5
B,OAAO,M;K;IAGX,0C;MAMwB,UACT,M;MAHX,aAAa,iBAAU,OAAQ,KAAlB,C;MACb,kBAAkB,C;MACE,
yB;MAApB,OAAoB,cAApB,C;QAAoB,6B;QAChB,OAAO,oBAAP,EAAO,4BAAP,YAAwB,UAAK,WAAL,C;;
MAE5B,OAAO,M;K;IAGX,0C;MAMwB,UACT,M;MAHX,aAAa,iBAAW,OAAQ,KAAnB,C;MACb,kBAAkB,C;
MACE,yB;MAApB,OAAoB,cAApB,C;QAAoB,6B;QAChB,OAAO,oBAAP,EAAO,4BAAP,YAAwB,UAAK,WA
AL,C;;MAE5B,OAAO,M;K;IAGX,0C;MAMwB,UACT,M;MAHX,aAAa,iBAAY,OAAQ,KAApB,C;MACb,kBAA
kB,C;MACE,yB;MAApB,OAAoB,cAApB,C;QAAoB,6B;QAChB,OAAO,oBAAP,EAAO,4BAAP,YAAwB,UAAK
,WAAL,C;;MAE5B,OAAO,M;K;IAGX,0C;MAMwB,UACT,M;MAHX,aAAa,oBAAa,OAAQ,KAArB,C;MACb,k
BAAkB,C;MACE,yB;MAApB,OAAoB,cAApB,C;QAAoB,6B;QAChB,OAAO,oBAAP,EAAO,4BAAP,YAAwB,U
AAK,WAAL,C;;MAE5B,OAAO,M;K;IAGX,0C;MAMwB,UACT,M;MAHX,aAAa,iBAAU,OAAQ,KAAlB,C;MA
Cb,kBAAkB,C;MACE,yB;MAApB,OAAoB,cAApB,C;QAAoB,6B;QAChB,OAAO,oBAAP,EAAO,4BAAP,YAA
wB,UAAK,WAAL,C;;MAE5B,OAAO,M;K;IAGX,0C;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OAAO,yBAAY,CAA
Z,EAAe,CAAf,C;MAC9B,OAAO,yBAAY,OAAQ,MAApB,EAA2B,OAAQ,aAAR,GAAuB,CAAvB,IAA3B,C;K;I
AGX,0C;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OAAO,cAAU,CAAV,C;MAC9B,OAAO,yBAAY,OAAQ,MAApB,
EAA2B,OAAQ,aAAR,GAAuB,CAAvB,IAA3B,C;K;IAGX,2C;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OAAO,eAA
W,CAAX,C;MAC9B,OAAO,yBAAY,OAAQ,MAApB,EAA2B,OAAQ,aAAR,GAAuB,CAAvB,IAA3B,C;K;IAGX
,2C;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OAAO,eAAS,CAAT,C;MAC9B,OAAO,yBAAY,OAAQ,MAApB,EAA
2B,OAAQ,aAAR,GAAuB,CAAvB,IAA3B,C;K;IAGX,2C;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OAAO,iBAAU,C
AAV,C;MAC9B,OAAO,yBAAY,OAAQ,MAApB,EAA2B,OAAQ,aAAR,GAAuB,CAAvB,IAA3B,C;K;IAGX,2C;
MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OAAO,iBAAW,CAAX,C;MAC9B,OAAO,yBAAY,OAAQ,MAApB,EAA2
B,OAAQ,aAAR,GAAuB,CAAvB,IAA3B,C;K;IAGX,2C;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OAAO,iBAAY,CA
AZ,C;MAC9B,OAAO,yBAAY,OAAQ,MAApB,EAA2B,OAAQ,aAAR,GAAuB,CAAvB,IAA3B,C;K;IAGX,2C;M
AII,IAAI,OAAQ,UAAZ,C;QAAuB,OAAO,oBAAa,CAAb,C;MAC9B,OAAO,0BAAY,OAAQ,MAApB,EAA2B,O
AAQ,aAAR,GAAuB,CAAvB,IAA3B,C;K;IAGX,2C;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OAAO,iBAAU,CAAV
,C;MAC9B,OAAO,0BAAY,OAAQ,MAApB,EAA2B,OAAQ,aAAR,GAAuB,CAAvB,IAA3B,C;K;IAGX,4B;MAci
B,Q;Mc3nJb,IAAI,EdqnJI,KAAK,CcrnJT,CAAJ,C;QACI,cdonJc,sD;QcnnJd,MAAM,gCAAyB,OAAQ,WAAjC,C;
OdonJV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,IAAI,KAAK,gBAAT,C;QAAe,OAAO,iB;MACtB,IAA
I,MAAK,CAAT,C;QAAY,OAAO,OAAO,UAAK,CAAL,CAAP,C;MACnB,YAAY,C;MACZ,WAAW,iBAAa,CA
Ab,C;MACX,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,IAAK,WAAI,IAAJ,C;QACL,IAAI,mCAAW,CA
Af,C;UACI,K;;MAER,OAAO,I;K;IAGX,8B;MAciB,Q;McjpJb,IAAI,Ed2oJI,KAAK,Cc3oJT,CAAJ,C;QACI,cd0oJ
c,sD;QczoJd,MAAM,gCAAyB,OAAQ,WAAjC,C;Od0oJV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,IAA
I,KAAK,gBAAT,C;QAAe,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,UAAK,CAAL,CAA
P,C;MACnB,YAAY,C;MACZ,WAAW,iBAAgB,CAAhB,C;MACX,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;Q

ACI,IAAK,WAAI,IAAJ,C;QACL,IAAI,mCAAW,CAAf,C;UACI,K;;MAER,OAAO,I;K;IAGX,8B;MAciB,Q;Mcvq
Jb,IAAI,EdiqJI,KAAK,CcjqJT,CAAJ,C;QACI,cdgqJc,sD;Qc/pJd,MAAM,gCAAyB,OAAQ,WAAjC,C;OdgqJV,IA
AI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,IAAI,KAAK,gBAAT,C;QAAe,OAAO,mB;MACtB,IAAI,MAAK,
CAAT,C;QAAY,OAAO,OAAO,UAAK,CAAL,CAAP,C;MACnB,YAAY,C;MACZ,WAAW,iBAAiB,CAAjB,C;M
ACX,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,IAAK,WAAI,IAAJ,C;QACL,IAAI,mCAAW,CAAf,C;UA
CI,K;;MAER,OAAO,I;K;IAGX,8B;MAciB,Q;Mc7rJb,IAAI,EdurJI,KAAK,CcvrJT,CAAJ,C;QACI,cdsrJc,sD;QcrrJ
d,MAAM,gCAAyB,OAAQ,WAAjC,C;OdsrJV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,IAAI,KAAK,gB
AAT,C;QAAe,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,UAAK,CAAL,CAAP,C;MACn
B,YAAY,C;MACZ,WAAW,iBAAe,CAAf,C;MACX,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,IAAK,WA
AI,IAAJ,C;QACL,IAAI,mCAAW,CAAf,C;UACI,K;;MAER,OAAO,I;K;IAGX,8B;MAciB,Q;McntJb,IAAI,Ed6sJI,
KAAK,Cc7sJT,CAAJ,C;QACI,cd4sJc,sD;Qc3sJd,MAAM,gCAAyB,OAAQ,WAAjC,C;Od4sJV,IAAI,MAAK,CAA
T,C;QAAY,OAAO,W;MACnB,IAAI,KAAK,gBAAT,C;QAAe,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY
,OAAO,OAAO,UAAK,CAAL,CAAP,C;MACnB,YAAY,C;MACZ,WAAW,iBAAgB,CAAhB,C;MACX,wBAAa,S
AAb,gB;QAAa,WAAA,SAAb,M;QACI,IAAK,WAAI,IAAJ,C;QACL,IAAI,mCAAW,CAAf,C;UACI,K;;MAER,O
AAO,I;K;IAGX,8B;MAciB,Q;MczuJb,IAAI,EdmuJI,KAAK,CcnuJT,CAAJ,C;QACI,cdkuJc,sD;QcjuJd,MAAM,gC
AAyB,OAAQ,WAAjC,C;OdkuJV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,IAAI,KAAK,gBAAT,C;QA
Ae,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,UAAK,CAAL,CAAP,C;MACnB,YAAY,C;
MACZ,WAAW,iBAAiB,CAAjB,C;MACX,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,IAAK,WAAI,IAAJ,
C;QACL,IAAI,mCAAW,CAAf,C;UACI,K;;MAER,OAAO,I;K;IAGX,8B;MAciB,Q;Mc/vJb,IAAI,EdyvJI,KAAK,
CczvJT,CAAJ,C;QACI,cdwvJc,sD;QcvvJd,MAAM,gCAAyB,OAAQ,WAAjC,C;OdwvJV,IAAI,MAAK,CAAT,C;
QAAY,OAAO,W;MACnB,IAAI,KAAK,gBAAT,C;QAAe,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OA
AO,OAAO,UAAK,CAAL,CAAP,C;MACnB,YAAY,C;MACZ,WAAW,iBAAkB,CAAlB,C;MACX,wBAAa,SAAb
,gB;QAAa,WAAA,SAAb,M;QACI,IAAK,WAAI,IAAJ,C;QACL,IAAI,mCAAW,CAAf,C;UACI,K;;MAER,OAAO
,I;K;IAGX,8B;MAciB,Q;McrxJb,IAAI,Ed+wJI,KAAK,Cc/wJT,CAAJ,C;QACI,cd8wJc,sD;Qc7wJd,MAAM,gCAA
yB,OAAQ,WAAjC,C;Od8wJV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,IAAI,KAAK,gBAAT,C;QAAe,
OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,UAAK,CAAL,CAAP,C;MACnB,YAAY,C;MA
CZ,WAAW,iBAAmB,CAAnB,C;MACX,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,IAAK,WAAI,IAAJ,C;
QACL,IAAI,mCAAW,CAAf,C;UACI,K;;MAER,OAAO,I;K;IAGX,8B;MAciB,Q;Mc3yJb,IAAI,EdqyJI,KAAK,Cc
ryJT,CAAJ,C;QACI,cdoyJc,sD;QcnyJd,MAAM,gCAAyB,OAAQ,WAAjC,C;OdoyJV,IAAI,MAAK,CAAT,C;QAA
Y,OAAO,W;MACnB,IAAI,KAAK,gBAAT,C;QAAe,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,O
AAO,sBAAK,CAAL,EAAP,C;MACnB,YAAY,C;MACZ,WAAW,iBAAgB,CAAhB,C;MACX,wBAAa,SAAb,gB;
QAAa,WAAb,UAAa,SAAb,O;QACI,IAAK,WAAI,iBAAJ,C;QACL,IAAI,mCAAW,CAAf,C;UACI,K;;MAER,OA
AO,I;K;IAGX,gC;McnzJI,IAAI,Ed2zJI,KAAK,Cc3zJT,CAAJ,C;QACI,cd0zJc,sD;QczzJd,MAAM,gCAAyB,OAA
Q,WAAjC,C;Od0zJV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,WAAW,gB;MACX,IAAI,KAAK,IAAT,
C;QAAe,OAAO,iB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,UAAK,OAAO,CAAP,IAAL,CAAP,C;
MACnB,WAAW,iBAAa,CAAb,C;MACX,iBAAc,OAAO,CAAP,IAAd,UAA6B,IAA7B,U;QACI,IAAK,WAAI,UA
AK,KAAL,CAAJ,C;MACT,OAAO,I;K;IAGX,kC;Mct0JI,IAAI,Ed80JI,KAAK,Cc90JT,CAAJ,C;QACI,cd60Jc,sD;
Qc50Jd,MAAM,gCAAyB,OAAQ,WAAjC,C;Od60JV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,WAAW,
gB;MACX,IAAI,KAAK,IAAT,C;QAAe,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,UAA
K,OAAO,CAAP,IAAL,CAAP,C;MACnB,WAAW,iBAAgB,CAAhB,C;MACX,iBAAc,OAAO,CAAP,IAAd,UAA6
B,IAA7B,U;QACI,IAAK,WAAI,UAAK,KAAL,CAAJ,C;MACT,OAAO,I;K;IAGX,kC;Mcz1JI,IAAI,Edi2JI,KAA
K,Ccj2JT,CAAJ,C;QACI,cdg2Jc,sD;Qc/1Jd,MAAM,gCAAyB,OAAQ,WAAjC,C;Odg2JV,IAAI,MAAK,CAAT,C;
QAAY,OAAO,W;MACnB,WAAW,gB;MACX,IAAI,KAAK,IAAT,C;QAAe,OAAO,mB;MACtB,IAAI,MAAK,CA
AT,C;QAAY,OAAO,OAAO,UAAK,OAAO,CAAP,IAAL,CAAP,C;MACnB,WAAW,iBAAiB,CAAjB,C;MACX,i
BAAc,OAAO,CAAP,IAAd,UAA6B,IAA7B,U;QACI,IAAK,WAAI,UAAK,KAAL,CAAJ,C;MACT,OAAO,I;K;IA
GX,kC;Mc52JI,IAAI,Edo3JI,KAAK,Ccp3JT,CAAJ,C;QACI,cdm3Jc,sD;Qcl3Jd,MAAM,gCAAyB,OAAQ,WAAjC,
C;Odm3JV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,WAAW,gB;MACX,IAAI,KAAK,IAAT,C;QAAe,O
AAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,UAAK,OAAO,CAAP,IAAL,CAAP,C;MACnB,

WAAW,iBAAe,CAAf,C;MACX,iBAAc,OAAO,CAAP,IAAd,UAA6B,IAA7B,U;QACI,IAAK,WAAI,UAAK,KAAA
L,CAAJ,C;MACT,OAAO,I;K;IAGX,kC;Mc/3JI,IAAI,Edu4JI,KAAK,Ccv4JT,CAAJ,C;QACI,cds4Jc,sD;Qcr4Jd,M
AAM,gCAAyB,OAAQ,WAAjC,C;Ods4JV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,WAAW,gB;MACX
,IAAI,KAAK,IAAT,C;QAAe,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,UAAK,OAAO,C
AAP,IAAL,CAAP,C;MACnB,WAAW,iBAAgB,CAAhB,C;MACX,iBAAc,OAAO,CAAP,IAAd,UAA6B,IAA7B,U
;QACI,IAAK,WAAI,UAAK,KAAL,CAAJ,C;MACT,OAAO,I;K;IAGX,kC;Mcl5JI,IAAI,Ed05JI,KAAK,Cc15JT,C
AAJ,C;QACI,cdy5Jc,sD;Qcx5Jd,MAAM,gCAAyB,OAAQ,WAAjC,C;Ody5JV,IAAI,MAAK,CAAT,C;QAAY,OA
AO,W;MACnB,WAAW,gB;MACX,IAAI,KAAK,IAAT,C;QAAe,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QA
AY,OAAO,OAAO,UAAK,OAAO,CAAP,IAAL,CAAP,C;MACnB,WAAW,iBAAiB,CAAjB,C;MACX,iBAAc,OA
AO,CAAP,IAAd,UAA6B,IAA7B,U;QACI,IAAK,WAAI,UAAK,KAAL,CAAJ,C;MACT,OAAO,I;K;IAGX,kC;Mc
r6JI,IAAI,Ed66JI,KAAK,Cc76JT,CAAJ,C;QACI,cd46Jc,sD;Qc36Jd,MAAM,gCAAyB,OAAQ,WAAjC,C;Od46JV,
IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,WAAW,gB;MACX,IAAI,KAAK,IAAT,C;QAAe,OAAO,mB;M
ACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,UAAK,OAAO,CAAP,IAAL,CAAP,C;MACnB,WAAW,iBA
AkB,CAAlB,C;MACX,iBAAc,OAAO,CAAP,IAAd,UAA6B,IAA7B,U;QACI,IAAK,WAAI,UAAK,KAAL,CAAJ,
C;MACT,OAAO,I;K;IAGX,kC;Mcx7JI,IAAI,Edg8JI,KAAK,Cch8JT,CAAJ,C;QACI,cd+7Jc,sD;Qc97Jd,MAAM,g
CAAyB,OAAQ,WAAjC,C;Od+7JV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,WAAW,gB;MACX,IAAI,
KAAK,IAAT,C;QAAe,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,UAAK,OAAO,CAAP,I
AAL,CAAP,C;MACnB,WAAW,iBAAmB,CAAnB,C;MACX,iBAAc,OAAO,CAAP,IAAd,UAA6B,IAA7B,U;QA
CI,IAAK,WAAI,UAAK,KAAL,CAAJ,C;MACT,OAAO,I;K;IAGX,kC;Mc38JI,IAAI,Edm9JI,KAAK,Ccn9JT,CAA
J,C;QACI,cdk9Jc,sD;Qcj9Jd,MAAM,gCAAyB,OAAQ,WAAjC,C;Odk9JV,IAAI,MAAK,CAAT,C;QAAY,OAAO,
W;MACnB,WAAW,gB;MACX,IAAI,KAAK,IAAT,C;QAAe,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,
OAAO,OAAO,sBAAK,OAAO,CAAP,IAAO,EAAP,C;MACnB,WAAW,iBAAgB,CAAhB,C;MACX,iBAAc,OAA
O,CAAP,IAAd,UAA6B,IAA7B,U;QACI,IAAK,WAAI,sBAAK,KAAL,EAAJ,C;MACT,OAAO,I;K;gGAGX,yB;M
AAA,8D;MAAA,4C;MAAA,gD;MAAA,uC;QAMI,iBAAc,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAA
U,UAAK,KAAL,CAAV,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;QAGf,OAAO,iB;O;KAXX,C;kG
AcA,yB;MAAA,8D;MAAA,2C;MAAA,gD;MAAA,uC;QAMI,iBAAc,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,
CAAC,UAAU,UAAK,KAAL,CAAV,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;QAGf,OAAO,iB;O
;KAXX,C;kGAcA,yB;MAAA,8D;MAAA,4C;MAAA,gD;MAAA,uC;QAMI,iBAAc,wBAAd,WAA+B,CAA/B,U;U
ACI,IAAI,CAAC,UAAU,UAAK,KAAL,CAAV,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;QAGf,O
AAO,iB;O;KAXX,C;kGAcA,yB;MAAA,8D;MAAA,4C;MAAA,gD;MAAA,uC;QAMI,iBAAc,wBAAd,WAA+B,CAA/B,C
AA/B,U;UACI,IAAI,CAAC,UAAU,UAAK,KAAL,CAAV,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;QAGf,OAAO,
C;;QAGf,OAAO,iB;O;KAXX,C;kGAcA,yB;MAAA,8D;MAAA,4C;MAAA,gD;MAAA,uC;QAMI,iBAAc,wBAAd
,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,UAAK,KAAL,CAAV,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;QAGf,OAAO,iB;O;KAXX,C;kGAcA,yB;MAAA,8D;MAAA,4C;MAAA,gD;MAAA,uC;QAMI,iBA
Ac,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,UAAK,KAAL,CAAV,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;QAGf,OAAO,iB;O;KAXX,C;kGAcA,yB;MAAA,8D;MAAA,4C;MAAA,gD;MAAA,uC;QAMI,iBAAc,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,UAAK,KAAL,CAAV,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;QAGf,OAAO,iB;O;KAXX,C;kGAcA,yB;MAAA,8D;MAAA,oC;MAAA,4C;MAAA,gD;MAAA,uC;QAMI,iBAAc,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,sBAAK,KAAL,EAAV,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;QAGf,OAAO,iB;O;KAXX,C;wFAcA,yB;MAAA,+D;MAAA,uC;QAMI,iBAAc,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,UAAK,KAAL,CAAV,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;QAGf,OAAO,iB;O;KAXX,C;0FAcA,yB;MAAA,+D;MAAA,uC;QAMI,iBAAc,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,UAAK,KAAL,CAAV,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;QAGf,OAAO,iB;O;KAXX,C;

MAAA,+D;MAAA,uC;QAOiB,Q;QADb,WAAW,gB;QACX,wBAAa,SAAb,gB;UAAa,WAAA,SAAb,M;UACI,IA
AI,CAAC,UAAU,IAAV,CAAL,C;YACI,K;UACJ,IAAK,WAAI,IAAJ,C;;QAET,OAAO,I;O;KAZX,C;0FAeA,yB;
MAAA,+D;MAAA,uC;QAOiB,Q;QADb,WAAW,gB;QACX,wBAAa,SAAb,gB;UAAa,WAAA,SAAb,M;UACI,IA
AI,CAAC,UAAU,IAAV,CAAL,C;YACI,K;UACJ,IAAK,WAAI,IAAJ,C;;QAET,OAAO,I;O;KAZX,C;0FAeA,yB;
MAAA,+D;MAAA,uC;QAOiB,Q;QADb,WAAW,gB;QACX,wBAAa,SAAb,gB;UAAa,WAAA,SAAb,M;UACI,IA
AI,CAAC,UAAU,IAAV,CAAL,C;YACI,K;UACJ,IAAK,WAAI,IAAJ,C;;QAET,OAAO,I;O;KAZX,C;0FAeA,yB;
MAAA,+D;MAAA,uC;QAOiB,Q;QADb,WAAW,gB;QACX,wBAAa,SAAb,gB;UAAa,WAAA,SAAb,M;UACI,IA
AI,CAAC,UAAU,IAAV,CAAL,C;YACI,K;UACJ,IAAK,WAAI,IAAJ,C;;QAET,OAAO,I;O;KAZX,C;0FAeA,yB;
MAAA,+D;MAAA,uC;QAOiB,Q;QADb,WAAW,gB;QACX,wBAAa,SAAb,gB;UAAa,WAAA,SAAb,M;UACI,IA
AI,CAAC,UAAU,IAAV,CAAL,C;YACI,K;UACJ,IAAK,WAAI,IAAJ,C;;QAET,OAAO,I;O;KAZX,C;0FAeA,yB;
MAAA,+D;MAAA,oC;MAAA,gC;MAAA,uC;QAOiB,Q;QADb,WAAW,gB;QACX,wBAAa,SAAb,gB;UAAa,WA
Ab,UAAa,SAAb,O;UACI,IAAI,CAAC,UAAU,iBAAV,CAAL,C;YACI,K;UACJ,IAAK,WAAI,iBAAJ,C;;QAET,O
AAO,I;O;KAZX,C;IAeA,4B;MAII,eAAe,CAAC,mBAAO,CAAP,IAAD,IAAa,CAAb,I;MACf,IAAI,WAAW,CAAf
,C;QAAkB,M;MAClB,mBAAmB,wB;MACnB,iBAAc,CAAd,WAAiB,QAAjB,U;QACI,UAAU,UAAK,KAAL,C;
QACV,UAAK,KAAL,IAAc,UAAK,YAAL,C;QACd,UAAK,YAAL,IAAqB,G;QACrB,mC;;K;IAIR,8B;MAII,eAA
e,CAAC,mBAAO,CAAP,IAAD,IAAa,CAAb,I;MACf,IAAI,WAAW,CAAf,C;QAAkB,M;MAClB,mBAAmB,0B;M
ACnB,iBAAc,CAAd,WAAiB,QAAjB,U;QACI,UAAU,UAAK,KAAL,C;QACV,UAAK,KAAL,IAAc,UAAK,YAA
L,C;QACd,UAAK,YAAL,IAAqB,G;QACrB,mC;;K;IAIR,8B;MAII,eAAe,CAAC,mBAAO,CAAP,IAAD,IAAa,CA
Ab,I;MACf,IAAI,WAAW,CAAf,C;QAAkB,M;MAClB,mBAAmB,0B;MACnB,iBAAc,CAAd,WAAiB,QAAjB,U;
QACI,UAAU,UAAK,KAAL,C;QACV,UAAK,KAAL,IAAc,UAAK,YAAL,C;QACd,UAAK,YAAL,IAAqB,G;QA
CrB,mC;;K;IAIR,8B;MAII,eAAe,CAAC,mBAAO,CAAP,IAAD,IAAa,CAAb,I;MACf,IAAI,WAAW,CAAf,C;QA
AkB,M;MAClB,mBAAmB,0B;MACnB,iBAAc,CAAd,WAAiB,QAAjB,U;QACI,UAAU,UAAK,KAAL,C;QACV,
UAAK,KAAL,IAAc,UAAK,YAAL,C;QACd,UAAK,YAAL,IAAqB,G;QACrB,mC;;K;IAIR,8B;MAII,eAAe,CAA
C,mBAAO,CAAP,IAAD,IAAa,CAAb,I;MACf,IAAI,WAAW,CAAf,C;QAAkB,M;MAClB,mBAAmB,0B;MACnB,
iBAAc,CAAd,WAAiB,QAAjB,U;QACI,UAAU,UAAK,KAAL,C;QACV,UAAK,KAAL,IAAc,UAAK,YAAL,C;Q
ACd,UAAK,YAAL,IAAqB,G;QACrB,mC;;K;IAIR,8B;MAII,eAAe,CAAC,mBAAO,CAAP,IAAD,IAAa,CAAb,I;
MACf,IAAI,WAAW,CAAf,C;QAAkB,M;MAClB,mBAAmB,0B;MACnB,iBAAc,CAAd,WAAiB,QAAjB,U;QACI
,UAAU,UAAK,KAAL,C;QACV,UAAK,KAAL,IAAc,UAAK,YAAL,C;QACd,UAAK,YAAL,IAAqB,G;QACrB,m
C;;K;IAIR,8B;MAII,eAAe,CAAC,mBAAO,CAAP,IAAD,IAAa,CAAb,I;MACf,IAAI,WAAW,CAAf,C;QAAkB,M;
MAClB,mBAAmB,0B;MACnB,iBAAc,CAAd,WAAiB,QAAjB,U;QACI,UAAU,UAAK,KAAL,C;QACV,UAAK,
KAAL,IAAc,UAAK,YAAL,C;QACd,UAAK,YAAL,IAAqB,G;QACrB,mC;;K;IAIR,8B;MAII,eAAe,CAAC,mBA
AO,CAAP,IAAD,IAAa,CAAb,I;MACf,IAAI,WAAW,CAAf,C;QAAkB,M;MAClB,mBAAmB,0B;MACnB,iBAAc,
CAAd,WAAiB,QAAjB,U;QACI,UAAU,UAAK,KAAL,C;QACV,UAAK,KAAL,IAAc,UAAK,YAAL,C;QACd,U
AAK,YAAL,IAAqB,G;QACrB,mC;;K;IAIR,8B;MAII,eAAe,CAAC,mBAAO,CAAP,IAAD,IAAa,CAAb,I;MACf,I
AAI,WAAW,CAAf,C;QAAkB,M;MAClB,mBAAmB,0B;MACnB,iBAAc,CAAd,WAAiB,QAAjB,U;QACI,UAAU
,UAAK,KAAL,C;QACV,UAAK,KAAL,IAAc,UAAK,YAAL,C;QACd,UAAK,YAAL,IAAqB,G;QACrB,mC;;K;I
AIR,kD;MAWI,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACb,eAAe,CAAC,YAAY,OAA
Z,IAAD,IAAwB,CAAxB,I;MACf,IAAI,cAAa,QAAjB,C;QAA2B,M;MAC3B,mBAAmB,UAAU,CAAV,I;MACnB
,iBAAc,SAAd,UAA8B,QAA9B,U;QACI,UAAU,UAAK,KAAL,C;QACV,UAAK,KAAL,IAAc,UAAK,YAAL,C;Q
ACd,UAAK,YAAL,IAAqB,G;QACrB,mC;;K;IAIR,kD;MAWI,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,
gBAAtC,C;MACb,eAAe,CAAC,YAAY,OAAZ,IAAD,IAAwB,CAAxB,I;MACf,IAAI,cAAa,QAAjB,C;QAA2B,M;
MAC3B,mBAAmB,UAAU,CAAV,I;MACnB,iBAAc,SAAd,UAA8B,QAA9B,U;QACI,UAAU,UAAK,KAAL,C;Q
ACV,UAAK,KAAL,IAAc,UAAK,YAAL,C;QACd,UAAK,YAAL,IAAqB,G;QACrB,mC;;K;IAIR,mD;MAWI,oCA
Aa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACb,eAAe,CAAC,YAAY,OAAZ,IAAD,IAAwB,CA
AxB,I;MACf,IAAI,cAAa,QAAjB,C;QAA2B,M;MAC3B,mBAAmB,UAAU,CAAV,I;MACnB,iBAAc,SAAd,UAA
8B,QAA9B,U;QACI,UAAU,UAAK,KAAL,C;QACV,UAAK,KAAL,IAAc,UAAK,YAAL,C;QACd,UAAK,YAAL,
IAAqB,G;QACrB,mC;;K;IAIR,mD;MAWI,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACb,
eAAe,CAAC,YAAY,OAAZ,IAAD,IAAwB,CAAxB,I;MACf,IAAI,cAAa,QAAjB,C;QAA2B,M;MAC3B,mBAAm

B,UAAU,CAAV,I;MACnB,iBAAc,SAAd,UAA8B,QAA9B,U;QACI,UAAU,UAAK,KAAL,C;QACV,UAAK,KAA
L,IAAc,UAAK,YAAL,C;QACd,UAAK,YAAL,IAAqB,G;QACrB,mC;;K;IAIR,mD;MAWI,oCAAa,2BAAkB,SAA
lB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACb,eAAe,CAAC,YAAY,OAAZ,IAAD,IAAwB,CAAxB,I;MACf,IAAI,
cAAa,QAAjB,C;QAA2B,M;MAC3B,mBAAmB,UAAU,CAAV,I;MACnB,iBAAc,SAAd,UAA8B,QAA9B,U;QAC
I,UAAU,UAAK,KAAL,C;QACV,UAAK,KAAL,IAAc,UAAK,YAAL,C;QACd,UAAK,YAAL,IAAqB,G;QACrB,
mC;;K;IAIR,mD;MAWI,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACb,eAAe,CAAC,YAA
Y,OAAZ,IAAD,IAAwB,CAAxB,I;MACf,IAAI,cAAa,QAAjB,C;QAA2B,M;MAC3B,mBAAmB,UAAU,CAAV,I;
MACnB,iBAAc,SAAd,UAA8B,QAA9B,U;QACI,UAAU,UAAK,KAAL,C;QACV,UAAK,KAAL,IAAc,UAAK,Y
AAL,C;QACd,UAAK,YAAL,IAAqB,G;QACrB,mC;;K;IAIR,mD;MAWI,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7
B,EAAsC,gBAAtC,C;MACb,eAAe,CAAC,YAAY,OAAZ,IAAD,IAAwB,CAAxB,I;MACf,IAAI,cAAa,QAAjB,C;
QAA2B,M;MAC3B,mBAAmB,UAAU,CAAV,I;MACnB,iBAAc,SAAd,UAA8B,QAA9B,U;QACI,UAAU,UAAK,
KAAL,C;QACV,UAAK,KAAL,IAAc,UAAK,YAAL,C;QACd,UAAK,YAAL,IAAqB,G;QACrB,mC;;K;IAIR,mD;
MAWI,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACb,eAAe,CAAC,YAAY,OAAZ,IAAD,I
AAwB,CAAxB,I;MACf,IAAI,cAAa,QAAjB,C;QAA2B,M;MAC3B,mBAAmB,UAAU,CAAV,I;MACnB,iBAAc,S
AAd,UAA8B,QAA9B,U;QACI,UAAU,UAAK,KAAL,C;QACV,UAAK,KAAL,IAAc,UAAK,YAAL,C;QACd,UA
AK,YAAL,IAAqB,G;QACrB,mC;;K;IAIR,mD;MAWI,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAt
C,C;MACb,eAAe,CAAC,YAAY,OAAZ,IAAD,IAAwB,CAAxB,I;MACf,IAAI,cAAa,QAAjB,C;QAA2B,M;MAC3
B,mBAAmB,UAAU,CAAV,I;MACnB,iBAAc,SAAd,UAA8B,QAA9B,U;QACI,UAAU,UAAK,KAAL,C;QACV,U
AAK,KAAL,IAAc,UAAK,YAAL,C;QACd,UAAK,YAAL,IAAqB,G;QACrB,mC;;K;IAIR,6B;MAII,IA+nEO,qBA
AQ,CA/nEf,C;QAAe,OAAO,W;MACtB,WAAW,wB;MACN,WAAL,IAAK,C;MACL,OAAO,I;K;IAGX,+B;MAII
,IA6nEO,qBAAQ,CA7nEf,C;QAAe,OAAO,W;MACtB,WAAW,0B;MACN,WAAL,IAAK,C;MACL,OAAO,I;K;I
AGX,+B;MAII,IA2nEO,qBAAQ,CA3nEf,C;QAAe,OAAO,W;MACtB,WAAW,0B;MACN,WAAL,IAAK,C;MAC
L,OAAO,I;K;IAGX,+B;MAII,IAynEO,qBAAQ,CAznEf,C;QAAe,OAAO,W;MACtB,WAAW,0B;MACN,WAAL,I
AAK,C;MACL,OAAO,I;K;IAGX,+B;MAII,IAunEO,qBAAQ,CAvnEf,C;QAAe,OAAO,W;MACtB,WAAW,0B;M
ACN,WAAL,IAAK,C;MACL,OAAO,I;K;IAGX,+B;MAII,IAqnEO,qBAAQ,CArnEf,C;QAAe,OAAO,W;MACtB,
WAAW,0B;MACN,WAAL,IAAK,C;MACL,OAAO,I;K;IAGX,+B;MAII,IAmnEO,qBAAQ,CAnnEf,C;QAAe,OA
AO,W;MACtB,WAAW,0B;MACN,WAAL,IAAK,C;MACL,OAAO,I;K;IAGX,+B;MAII,IAinEO,qBAAQ,CAjnEf,
C;QAAe,OAAO,W;MACtB,WAAW,0B;MACN,WAAL,IAAK,C;MACL,OAAO,I;K;IAGX,+B;MAII,IA+mEO,qB
AAQ,CA/mEf,C;QAAe,OAAO,W;MACtB,WAAW,0B;MACN,WAAL,IAAK,C;MACL,OAAO,I;K;IAGX,kC;MA
II,IAqiEO,qBAAQ,CAriEf,C;QAAe,OAAO,S;MACtB,aAAa,aAAa,SAAb,EAAmB,gBAAnB,C;MACb,gBAAgB,w
B;MAChB,aAAU,CAAV,OAAa,SAAb,M;QACI,OAAO,YAAY,CAAZ,IAAP,IAAwB,UAAK,CAAL,C;MAC5B,O
AAO,M;K;IAGX,oC;MAII,IAiiEO,qBAAQ,CAjiEf,C;QAAe,OAAO,S;MACtB,aAAa,cAAU,gBAAV,C;MACb,gB
AAgB,0B;MAChB,aAAU,CAAV,OAAa,SAAb,M;QACI,OAAO,YAAY,CAAZ,IAAP,IAAwB,UAAK,CAAL,C;M
AC5B,OAAO,M;K;IAGX,oC;MAII,IA6hEO,qBAAQ,CA7hEf,C;QAAe,OAAO,S;MACtB,aAAa,eAAW,gBAAX,
C;MACb,gBAAgB,0B;MAChB,aAAU,CAAV,OAAa,SAAb,M;QACI,OAAO,YAAY,CAAZ,IAAP,IAAwB,UAAK
,CAAL,C;MAC5B,OAAO,M;K;IAGX,oC;MAII,IAyhEO,qBAAQ,CAzhEf,C;QAAe,OAAO,S;MACtB,aAAa,eAA
S,gBAAT,C;MACb,gBAAgB,0B;MAChB,aAAU,CAAV,OAAa,SAAb,M;QACI,OAAO,YAAY,CAAZ,IAAP,IAA
wB,UAAK,CAAL,C;MAC5B,OAAO,M;K;IAGX,oC;MAII,IAqhEO,qBAAQ,CArhEf,C;QAAe,OAAO,S;MACtB,a
AAa,iBAAU,gBAAV,C;MACb,gBAAgB,0B;MAChB,aAAU,CAAV,OAAa,SAAb,M;QACI,OAAO,YAAY,CAAZ
,IAAP,IAAwB,UAAK,CAAL,C;MAC5B,OAAO,M;K;IAGX,oC;MAII,IAihEO,qBAAQ,CAjhEf,C;QAAe,OAAO,
S;MACtB,aAAa,iBAAW,gBAAX,C;MACb,gBAAgB,0B;MAChB,aAAU,CAAV,OAAa,SAAb,M;QACI,OAAO,Y
AAY,CAAZ,IAAP,IAAwB,UAAK,CAAL,C;MAC5B,OAAO,M;K;IAGX,oC;MAII,IA6gEO,qBAAQ,CA7gEf,C;Q
AAe,OAAO,S;MACtB,aAAa,iBAAY,gBAAZ,C;MACb,gBAAgB,0B;MAChB,aAAU,CAAV,OAAa,SAAb,M;QA
CI,OAAO,YAAY,CAAZ,IAAP,IAAwB,UAAK,CAAL,C;MAC5B,OAAO,M;K;IAGX,oC;MAII,IAygEO,qBAAQ,
CAzgEf,C;QAAe,OAAO,S;MACtB,aAAa,oBAAa,gBAAb,C;MACb,gBAAgB,0B;MAChB,aAAU,CAAV,OAAa,S
AAb,M;QACI,OAAO,YAAY,CAAZ,IAAP,IAAwB,UAAK,CAAL,C;MAC5B,OAAO,M;K;IAGX,oC;MAII,IAqgE
O,qBAAQ,CArgEf,C;QAAe,OAAO,S;MACtB,aAAa,iBAAU,gBAAV,C;MACb,gBAAgB,0B;MAChB,aAAU,CA
AV,OAAa,SAAb,M;QACI,OAAO,YAAY,CAAZ,IAAP,IAAwB,UAAK,CAAL,C;MAC5B,OAAO,M;K;IAGX,4B;

MAKI,qBAAQ,4BAAR,C;K;IAGJ,8B;MAKI,qBAAQ,4BAAR,C;K;IAGJ,8B;MAKI,sBAAQ,4BAAR,C;K;IAGJ,8
B;MAKI,sBAAQ,4BAAR,C;K;IAGJ,8B;MAKI,sBAAQ,4BAAR,C;K;IAGJ,8B;MAKI,sBAAQ,4BAAR,C;K;IAGJ,
8B;MAKI,sBAAQ,4BAAR,C;K;IAGJ,8B;MAKI,sBAAQ,4BAAR,C;K;IAGJ,8B;MAKI,sBAAQ,4BAAR,C;K;IAG
J,sC;MAOI,aAAU,wBAAV,OAA2B,CAA3B,M;QACI,QAAQ,MAAO,iBAAQ,IAAI,CAAJ,IAAR,C;QACf,WAA
W,UAAK,CAAL,C;QACX,UAAK,CAAL,IAAU,UAAK,CAAL,C;QACV,UAAK,CAAL,IAAU,I;;K;IAIlB,sC;MA
OI,aAAU,0BAAV,OAA2B,CAA3B,M;QACI,QAAQ,MAAO,iBAAQ,IAAI,CAAJ,IAAR,C;QACf,WAAW,UAAK,
CAAL,C;QACX,UAAK,CAAL,IAAU,UAAK,CAAL,C;QACV,UAAK,CAAL,IAAU,I;;K;IAIlB,uC;MAOI,aAAU,
0BAAV,OAA2B,CAA3B,M;QACI,QAAQ,MAAO,iBAAQ,IAAI,CAAJ,IAAR,C;QACf,WAAW,UAAK,CAAL,C;
QACX,UAAK,CAAL,IAAU,UAAK,CAAL,C;QACV,UAAK,CAAL,IAAU,I;;K;IAIlB,uC;MAOI,aAAU,0BAAV,
OAA2B,CAA3B,M;QACI,QAAQ,MAAO,iBAAQ,IAAI,CAAJ,IAAR,C;QACf,WAAW,UAAK,CAAL,C;QACX,U
AAK,CAAL,IAAU,UAAK,CAAL,C;QACV,UAAK,CAAL,IAAU,I;;K;IAIlB,uC;MAOI,aAAU,0BAAV,OAA2B,C
AA3B,M;QACI,QAAQ,MAAO,iBAAQ,IAAI,CAAJ,IAAR,C;QACf,WAAW,UAAK,CAAL,C;QACX,UAAK,CA
AL,IAAU,UAAK,CAAL,C;QACV,UAAK,CAAL,IAAU,I;;K;IAIlB,uC;MAOI,aAAU,0BAAV,OAA2B,CAA3B,M
;QACI,QAAQ,MAAO,iBAAQ,IAAI,CAAJ,IAAR,C;QACf,WAAW,UAAK,CAAL,C;QACX,UAAK,CAAL,IAAU,
UAAK,CAAL,C;QACV,UAAK,CAAL,IAAU,I;;K;IAIlB,uC;MAOI,aAAU,0BAAV,OAA2B,CAA3B,M;QACI,QA
AQ,MAAO,iBAAQ,IAAI,CAAJ,IAAR,C;QACf,WAAW,UAAK,CAAL,C;QACX,UAAK,CAAL,IAAU,UAAK,C
AAL,C;QACV,UAAK,CAAL,IAAU,I;;K;IAIlB,uC;MAOI,aAAU,0BAAV,OAA2B,CAA3B,M;QACI,QAAQ,MA
AO,iBAAQ,IAAI,CAAJ,IAAR,C;QACf,WAAW,UAAK,CAAL,C;QACX,UAAK,CAAL,IAAU,UAAK,CAAL,C;
QACV,UAAK,CAAL,IAAU,I;;K;IAIlB,uC;MAOI,aAAU,0BAAV,OAA2B,CAA3B,M;QACI,QAAQ,MAAO,iBA
AQ,IAAI,CAAJ,IAAR,C;QACf,WAAW,UAAK,CAAL,C;QACX,UAAK,CAAL,IAAU,UAAK,CAAL,C;QACV,U
AAK,CAAL,IAAU,I;;K;kFAIlB,yB;MAAA,oD;MgBn5LA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4
B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DgB,CA5DhB,CAAd,EAA2B,SA4DM,CA5DN,CAA3
B,C;W;S;OA4DI,C;MhB44Lf,sC;QAMI,IAAI,mBAAO,CAAX,C;UAAc,oBgBl5Ld,eAAW,iBhBk5LsB,QgBl5LtB,
CAAX,ChBk5Lc,C;U;KANlB,C;sGASA,yB;MAAA,oD;MgBz4LA,sC;MAAA,oC;MAAA,iCAOe,yB;QAxFf,8D;e
AwFe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA/Ed,cAAc,SA+EgB,CA/EhB,CAAd,EAA2B,SA+EM,CA/EN,
CAA3B,C;W;S;OA+EI,C;MhBk4Lf,sC;QAMI,IAAI,mBAAO,CAAX,C;UAAc,oBgBx4Ld,eAAW,2BhBw4LgC,Q
gBx4LhC,CAAX,ChBw4Lc,C;U;KANlB,C;IASA,mC;MAMI,oBAAS,cAAT,C;K;IAGJ,qC;MAII,IAAI,mBAAO,C
AAX,C;QACI,e;QACA,oB;Q;IAIR,qC;MAII,IAAI,mBAAO,CAAX,C;QACI,e;QACA,oB;Q;IAIR,qC;MAII,IAAI,
mBAAO,CAAX,C;QACI,e;QACA,oB;Q;IAIR,qC;MAII,IAAI,mBAAO,CAAX,C;QACI,iB;QACA,oB;Q;IAIR,qC;
MAII,IAAI,mBAAO,CAAX,C;QACI,e;QACA,oB;Q;IAIR,qC;MAII,IAAI,mBAAO,CAAX,C;QACI,e;QACA,oB;
Q;IAIR,qC;MAII,IAAI,mBAAO,CAAX,C;QACI,e;QACA,oB;Q;IAIR,2B;MAMI,OAAqB,OAAd,sBAAc,C;K;IAG
zB,6B;MAI0B,kBAAf,yB;MAAuB,mB;MAA9B,OAAuC,OiB5gMhC,WjB4gMgC,C;K;IAG3C,6B;MAI0B,kBAAf
,yB;MAAuB,mB;MAA9B,OAAuC,OiBnhMhC,WjBmhMgC,C;K;IAG3C,6B;MAI0B,kBAAf,yB;MAAuB,mB;MA
A9B,OAAuC,OiB1hMhC,WjB0hMgC,C;K;IAG3C,6B;MAI0B,kBAAf,yB;MAAuB,mB;MAA9B,OAAuC,OiBjiM
hC,WjBiiMgC,C;K;IAG3C,6B;MAI0B,kBAAf,yB;MAAuB,mB;MAA9B,OAAuC,OiBxiMhC,WjBwiMgC,C;K;IA
G3C,6B;MAI0B,kBAAf,yB;MAAuB,mB;MAA9B,OAAuC,OiB/iMhC,WjB+iMgC,C;K;IAG3C,6B;MAI0B,kBAA
f,0B;MAAuB,mB;MAA9B,OAAuC,OiBtjMhC,WjBsjMgC,C;K;IAG3C,gC;MAMI,IA6kDO,qBAAQ,CA7kDf,C;Q
AAe,OAAO,S;MACD,kBAAd,SepjKiB,Q;MfojKK,mB;MAA7B,OiBhkMO,W;K;IjBmkMX,kC;MAII,IA6kDO,qB
AAQ,CA7kDf,C;QAAe,OAAO,S;MACD,kBAAd,SeljKiB,Q;MfkjKK,iB;MAA7B,OiBxkMO,W;K;IjB2kMX,kC;
MAII,IA6kDO,qBAAQ,CA7kDf,C;QAAe,OAAO,S;MACD,kBAAd,SehjKiB,Q;MfgjKK,iB;MAA7B,OiBhlMO,W
;K;IjBmlMX,kC;MAII,IA6kDO,qBAAQ,CA7kDf,C;QAAe,OAAO,S;MACD,kBAAd,Se9iKiB,Q;Mf8iKK,iB;MA
A7B,OiBxlMO,W;K;IjB2lMX,kC;MAII,IA6kDO,qBAAQ,CA7kDf,C;QAAe,OAAO,S;MACD,kBAAT,UAAL,SA
AK,C;MAAiB,mB;MAA7B,OiBhmMO,W;K;IjBmmMX,kC;MAII,IA6kDO,qBAAQ,CA7kDf,C;QAAe,OAAO,S;
MACD,kBAAd,Se3iKiB,Q;Mf2iKK,iB;MAA7B,OiBxmMO,W;K;IjB2mMX,kC;MAII,IA6kDO,qBAAQ,CA7kDf,
C;QAAe,OAAO,S;MACD,kBAAd,SeziKiB,Q;MfyiKK,iB;MAA7B,OiBhnMO,W;K;IjBmnMX,kC;MAII,IAqlDO,
qBAAQ,CArlDf,C;QAAe,OAAO,S;MACD,kBAAT,UAAL,SAAK,C;MAAiB,iB;MAA7B,OiBxnMO,W;K;IjB2nM
X,0C;MAMI,IA2gDO,qBAAQ,CA3gDf,C;QAAe,OAAO,S;MACD,kBAAd,SetnKiB,Q;MfsnKK,sBAAS,cAAT,C;
MAA7B,OiBloMO,W;K;IjBqoMX,4C;MAII,IA2gDO,qBAAQ,CA3gDf,C;QAAe,OAAO,S;MACD,kBAAd,SepnK

iB,Q;MfonKK,6B;MAA7B,OiB1oMO,W;K;IjB6oMX,4C;MAII,IA2gDO,qBAAQ,CA3gDf,C;QAAe,OAAO,S;MACD,kBAAd,SelnKiB,Q;MfknKK,6B;MAA7B,OiBlpMO,W;K;IjBqpMX,4C;MAII,IA2gDO,qBAAQ,CA3gDf,C;QAAe,OAAO,S;MACD,kBAAd,SehnKiB,Q;MfgnKK,6B;MAA7B,OiB1pMO,W;K;IjB6pMX,4C;MAII,IA2gDO,qBAAQ,CA3gDf,C;QAAe,OAAO,S;MACD,kBAAT,UAAL,SAAK,C;MAAiB,6B;MAA7B,OiBlqMO,W;K;IjBqqMX,4C;MAII,IA2gDO,qBAAQ,CA3gDf,C;QAAe,OAAO,S;MACD,kBAAd,Se7mKiB,Q;Mf6mKK,6B;MAA7B,OiB1qMO,W;K;IjB6qMX,4C;MAII,IA2gDO,qBAAQ,CA3gDf,C;QAAe,OAAO,S;MACD,kBAAd,Se3mKiB,Q;Mf2mKK,6B;MAA7B,OiBlrMO,W;K;IjBqrMX,4C;MAII,IAmhDO,qBAAQ,CAnhDf,C;QAAe,OAAO,S;MACD,kBAAT,UAAL,SAAK,C;MAAiB,6B;MAA7B,OiB1rMO,W;K;IjB6rMX,4C;MAII,IAy8CO,qBAAQ,CAz8Cf,C;QAAe,OAAO,S;MACD,kBAAd,SexrKiB,Q;MfwrKK,iC;MAA7B,OiBpsMO,W;K;sFjBusMX,yB;MAAA,wD;MgB5rMA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBqrMf,sC;QAQI,OAAO,sBgB7rMP,eAAW,iBhB6rMI,QgB7rMJ,eAAW,ChB6rMX,CAAX,ChB6rMO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgBvsMA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBgsMf,sC;QAQI,OAAO,sBgBxsMP,eAAW,iBhBwsMI,QgBxsMJ,eAAW,ChBwsMX,CAAX,ChBwsMO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgBltMA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhB2sMf,sC;QAQI,OAAO,sBgBntMP,eAAW,iBhBmtMI,QgBntMJ,eAAW,ChBmtMX,CAAX,ChBmtMO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgB7tMA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBstMf,sC;QAQI,OAAO,sBgB9tMP,eAAW,iBhB8tMI,QgB9tMJ,eAAW,ChB8tMX,CAAX,ChB8tMO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgBxuMA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBiuMf,sC;QAQI,OAAO,sBgBzuMP,eAAW,iBhByuMI,QgBzuMJ,eAAW,ChByuMX,CAAX,ChByuMO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgBnvMA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhB4uMf,sC;QAQI,OAAO,sBgBpvMP,eAAW,iBhBovMI,QgBpvMJ,eAAW,ChBovMX,CAAX,ChBovMO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgB9vMA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBuvMf,sC;QAQI,OAAO,sBgB/vMP,eAAW,iBhB+vMI,QgB/vMJ,eAAW,ChB+vMX,CAAX,ChB+vMO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgBzwMA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBkwMf,sC;QAQI,OAAO,sBgB1wMP,eAAW,iBhB0wMI,QgB1wMJ,eAAW,ChB0wMX,CAAX,ChB0wMO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgBpxMA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhB6wMf,sC;QAQI,OAAO,sBgBrxMP,eAAW,iBhBqxMI,QgBrxMJ,eAAW,ChBqxMX,CAAX,ChBqxMO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgB/xMA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBgxMf,sC;QAQI,OAAO,sBgBxxMP,eAAW,iBhBwxMI,QgBxxMJ,eAAW,ChBwxMX,CAAX,ChBwxMO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgBlyMA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBmxMf,sC;QAQI,OAAO,sBgB3xMP,eAAW,iBhB2xMI,QgB3xMJ,eAAW,ChB2xMX,CAAX,ChB2xMO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgBrzMA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBoyMf,sC;QAQI,OAAO,sBgB5yMP,eAAW,iBhB4yMI,QgB5yMJ,eAAW,ChB4yMX,CAAX,ChB4yMO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgBt0MA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBqzMf,sC;QAQI,OAAO,sBgB7zMP,eAAW,iBhB6zMI,QgB7zMJ,eAAW,ChB6zMX,CAAX,ChB6zMO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgBv1MA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBs0Mf,sC;QAQI,OAAO,sBgB90MP,eAAW,iBhB80MI,QgB90MJ,eAAW,ChB80MX,CAAX,ChB80MO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgBx2MA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBu1Mf,sC;QAQI,OAAO,sBgB/1MP,eAAW,iBhB+1MI,QgB/1MJ,eAAW,ChB+1MX,CAAX,ChB+1MO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgBz3MA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBw2Mf,sC;QAQI,OAAO,sBgBh3MP,eAAW,iBhBg3MI,QgBh3MJ,eAAW,ChBg3MX,CAAX,ChBg3MO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgB14MA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBy3Mf,sC;QAQI,OAAO,sBgBj4MP,eAAW,iBhBi4MI,QgBj4MJ,eAAW,ChBi4MX,CAAX,ChBi4MO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgB35MA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhB05Mf,sC;QAQI,OAAO,sBgBl5MP,eAAW,iBhBk5MI,QgBl5MJ,eAAW,ChBk5MX,CAAX,ChBk5MO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgB57MA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhB27Mf,sC;QAQI,OAAO,sBgBn8MP,eAAW,iBhBm8MI,QgBn8MJ,eAAW,ChBm8MX,CAAX,ChBm8MO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgB79MA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhB49Mf,sC;QAQI,OAAO,sBgBp+MP,eAAW,iBhBo+MI,QgBp+MJ,eAAW,ChBo+MX,CAAX,ChBo+MO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgB9/MA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhB6+Mf,sC;QAQI,OAAO,sBgBr/MP,eAAW,iBhBq/MI,QgBr/MJ,eAAW,ChBq/MX,CAAX,ChBq/MO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgB/hNA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhB8/Mf,sC;QAQI,OAAO,sBgBt/MP,eAAW,iBhBs/MI,QgBt/MJ,eAAW,ChBs/MX,CAAX,ChBs/MO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgBhjNA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhB+hNf,sC;QAQI,OAAO,sBgBvhNP,eAAW,iBhBuhNI,QgBvhNJ,eAAW,ChBuhNX,CAAX,ChBuhNO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgBjkNA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBgjNf,sC;QAQI,OAAO,sBgBxjNP,eAAW,iBhBwjNI,QgBxjNJ,eAAW,ChBwjNX,CAAX,ChBwjNO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgBlmNA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBimNf,sC;QAQI,OAAO,sBgBzlNP,eAAW,iBhBylNI,QgBzlNJ,eAAW,ChBylNX,CAAX,ChBylNO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgBnoNA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBkoNf,sC;QAQI,OAAO,sBgB1nNP,eAAW,iBhB0nNI,QgB1nNJ,eAAW,ChB0nNX,CAAX,ChB0nNO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgBpqNA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBmqNf,sC;QAQI,OAAO,sBgB3pNP,eAAW,iBhB2pNI,QgB3pNJ,eAAW,ChB2pNX,CAAX,ChB2pNO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgBrsNA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBosNf,sC;QAQI,OAAO,sBgB5rNP,eAAW,iBhB4rNI,QgB5rNJ,eAAW,ChB4rNX,CAAX,ChB4rNO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgBtuNA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBquNf,sC;QAQI,OAAO,sBgB7tNP,eAAW,iBhB6tNI,QgB7tNJ,eAAW,ChB6tNX,CAAX,ChB6tNO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgBvvNA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBsvNf,sC;QAQI,OAAO,sBgB9uNP,eAAW,iBhB8uNI,QgB9uNJ,eAAW,ChB8uNX,CAAX,ChB8uNO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgBxwNA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBuwNf,sC;QAQI,OAAO,sBgB/vNP,eAAW,iBhB+vNI,QgB/vNJ,eAAW,ChB+vNX,CAAX,ChB+vNO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgBzxNA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBwxNf,sC;QAQI,OAAO,sBgBhxNP,eAAW,iBhBgxNI,QgBhxNJ,eAAW,ChBgxNX,CAAX,ChBgxNO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgB1yNA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhByyNf,sC;QAQI,OAAO,sBgBjyNP,eAAW,iBhBiyNI,QgBjyNJ,eAAW,ChBiyNX,CAAX,ChBiyNO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgB3zNA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhB0zNf,sC;QAQI,OAAO,sBgBlzNP,eAAW,iBhBkzNI,QgBlzNJ,eAAW,ChBkzNX,CAAX,ChBkzNO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgB50NA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhB20Nf,sC;QAQI,OAAO,sBgBn0NP,eAAW,iBhBm0NI,QgBn0NJ,eAAW,ChBm0NX,CAAX,ChBm0NO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgB71NA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhB41Nf,sC;QAQI,OAAO,sBgBp1NP,eAAW,iBhBo1NI,QgBp1NJ,eAAW,ChBo1NX,CAAX,ChBo1NO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgB92NA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhB61Nf,sC;QAQI,OAAO,sBgBr2NP,eAAW,iBhBq2NI,QgBr2NJ,eAAW,ChBq2NX,CAAX,ChBq2NO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgB/3NA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhB83Nf,sC;QAQI,OAAO,sBgBt3NP,eAAW,iBhBs3NI,QgBt3NJ,eAAW,ChBs3NX,CAAX,ChBs3NO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgBh5NA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhB+4Nf,sC;QAQI,OAAO,sBgBv4NP,eAAW,iBhBu4NI,QgBv4NJ,eAAW,ChBu4NX,CAAX,ChBu4NO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgBj6NA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBg6Nf,sC;QAQI,OAAO,sBgBx5NP,eAAW,iBhBw5NI,QgBx5NJ,eAAW,ChBw5NX,CAAX,ChBw5NO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgBl7NA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBi7Nf,sC;QAQI,OAAO,sBgBz6NP,eAAW,iBhBy6NI,QgBz6NJ,eAAW,ChBy6NX,CAAX,ChBy6NO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgBn8NA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBk8Nf,sC;QAQI,OAAO,sBgB17NP,eAAW,iBhB07NI,QgB17NJ,eAAW,ChB07NX,CAAX,ChB07NO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgBp9NA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBm9Nf,sC;QAQI,OAAO,sBgB39NP,eAAW,iBhB29NI,QgB39NJ,eAAW,ChB29NX,CAAX,ChB29NO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgBr+NA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBo+Nf,sC;QAQI,OAAO,sBgB59NP,eAAW,iBhB49NI,QgB59NJ,eAAW,ChB49NX,CAAX,ChB49NO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgBt/NA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBq/Nf,sC;QAQI,OAAO,sBgB7+NP,eAAW,iBhB6+NI,QgB7+NJ,eAAW,ChB6+NX,CAAX,ChB6+NO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgBvgOA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBsgOf,sC;QAQI,OAAO,sBgB9/NP,eAAW,iBhB8/NI,QgB9/NJ,eAAW,ChB8/NX,CAAX,ChB8/NO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgBxhOA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBuhOf,sC;QAQI,OAAO,sBgB/gOP,eAAW,iBhB+gOI,QgB/gOJ,eAAW,ChB+gOX,CAAX,ChB+gOO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgBzhOA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBwhOf,sC;QAQI,OAAO,sBgBhhOP,eAAW,iBhBghOI,QgBhhOJ,eAAW,ChBghOX,CAAX,ChBghOO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgB1iOA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhByiOf,sC;QAQI,OAAO,sBgBjiOP,eAAW,iBhBiiOI,QgBjiOJ,eAAW,ChBiiOX,CAAX,ChBiiOO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgB3jOA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhB0jOf,sC;QAQI,OAAO,sBgBljOP,eAAW,iBhBkjOI,QgBljOJ,eAAW,ChBkjOX,CAAX,ChBkjOO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgB5kOA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhB2kOf,sC;QAQI,OAAO,sBgBnkOP,eAAW,iBhBmkOI,QgBnkOJ,eAAW,ChBmkOX,CAAX,ChBmkOO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgB7lOA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhB4lOf,sC;QAQI,OAAO,sBgBplOP,eAAW,iBhBolOI,QgBplOJ,eAAW,ChBolOX,CAAX,ChBolOO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgB9mOA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhB6mOf,sC;QAQI,OAAO,sBgBrmOP,eAAW,iBhBqmOI,QgBrmOJ,eAAW,ChBqmOX,CAAX,ChBqmOO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgB/nOA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhB8nOf,sC;QAQI,OAAO,sBgBtnOP,eAAW,iBhBsnOI,QgBtnOJ,eAAW,ChBsnOX,CAAX,ChBsnOO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgBhpOA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhB+oOf,sC;QAQI,OAAO,sBgBvoOP,eAAW,iBhBuoOI,QgBvoOJ,eAAW,ChBuoOX,CAAX,ChBuoOO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgBjqOA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBgpOf,sC;QAQI,OAAO,sBgBxpOP,eAAW,iBhBwpOI,QgBxpOJ,eAAW,ChBwpOX,CAAX,ChBwpOO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgBlrOA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBirOf,sC;QAQI,OAAO,sBgBzqOP,eAAW,iBhByqOI,QgBzqOJ,eAAW,ChByqOX,CAAX,ChByqOO,C;O;KARX,C;wFAWA,yB;MAAA,wD;MgBnsOA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DhB,gB,CA5DhB,hBA4DgB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBksOf,sC;QAQI,OAAO,sBgB1rOP,eAAW,iBhB0rOI,QgB1rOJ,eAAW,ChB0rOX,CAAX,ChB0rOO,C;O;KAR

AAd,EAA2B,SA+EM,CA/EN,CAA3B,C;W;S;OA+EI,C;MhBmxMf,sC;QAII,OAAO,sBgBvxMP,eAAW,2BhBux
M2B,QgBvxM3B,CAAX,ChBuxMO,C;O;KAJX,C;4GAOA,yB;MAAA,wD;MgBjyMA,sC;MAAA,oC;MAAA,iC
AOe,yB;QAxFf,8D;eAwFe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA/Ed,cAAc,SA+EgB,CA/EhB,CAAd,EAA
2B,SA+EM,CA/EN,CAA3B,C;W;S;OA+EI,C;MhB0xMf,sC;QAII,OAAO,sBgB9xMP,eAAW,2BhB8xM2B,QgB9
xM3B,CAAX,ChB8xMO,C;O;KAJX,C;4GAOA,yB;MAAA,wD;MgBxyMA,sC;MAAA,oC;MAAA,iCAOe,yB;QA
xFf,8D;eAwFe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA/Ed,cAAc,SA+EgB,CA/EhB,CAAd,EAA2B,SA+EM,
CA/EN,CAA3B,C;W;S;OA+EI,C;MhBiyMf,sC;QAII,OAAO,sBgBryMP,eAAW,2BhBqyM2B,QgBryM3B,CAAX,
ChBqyMO,C;O;KAJX,C;4GAOA,yB;MAAA,wD;MgB/yMA,sC;MAAA,oC;MAAA,iCAOe,yB;QAxFf,8D;eAwFe
,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA/Ed,cAAc,SA+EgB,CA/EhB,CAAd,EAA2B,SA+EM,CA/EN,CAA3
B,C;W;S;OA+EI,C;MhBwyMf,sC;QAII,OAAO,sBgB5yMP,eAAW,2BhB4yM2B,QgB5yM3B,CAAX,ChB4yMO,
C;O;KAJX,C;4GAOA,yB;MAAA,wD;MgBtzMA,sC;MAAA,oC;MAAA,iCAOe,yB;QAxFf,8D;eAwFe,4B;UAAA,
uB;YAAU,eAAsB,gB;YAAtB,OA/Ed,cAAc,SA+EgB,CA/EhB,CAAd,EAA2B,SA+EM,CA/EN,CAA3B,C;W;S;O
A+EI,C;MhB+yMf,sC;QAII,OAAO,sBgBnzMP,eAAW,2BhBmzM2B,QgBnzM3B,CAAX,ChBmzMO,C;O;KAJX,
C;IAOA,qC;MAMI,OAAO,sBAAW,cAAX,C;K;IAGX,uC;MAIoB,kBel1KQ,iB;Mfk1KA,iB;MAAxB,OAAiC,Wi
Bx2M1B,WjBw2M0B,C;K;IAGrC,uC;MAIoB,kBe/0KQ,iB;Mf+0KA,iB;MAAxB,OAAiC,WiB/2M1B,WjB+2M0B
,C;K;IAGrC,uC;MAIoB,kBe50KQ,iB;Mf40KA,iB;MAAxB,OAAiC,WiBt3M1B,WjBs3M0B,C;K;IAGrC,uC;MAIo
B,kBAAT,oB;MAAiB,mB;MAAxB,OAAiC,WiB73M1B,WjB63M0B,C;K;IAGrC,uC;MAIoB,kBev0KQ,iB;Mfu0
KA,iB;MAAxB,OAAiC,WiBp4M1B,WjBo4M0B,C;K;IAGrC,uC;MAIoB,kBep0KQ,iB;Mfo0KA,iB;MAAxB,OAA
iC,WiB34M1B,WjB24M0B,C;K;IAGrC,uC;MAIoB,kBAAT,oB;MAAiB,iB;MAAxB,OAAiC,WiBl5M1B,WjBk5
M0B,C;K;IAGrC,2C;MAMI,OAAmC,OAA5B,2BAAgB,UAAhB,CAA4B,C;K;IAGvC,6C;MAI0B,kBAAf,yB;MA
AuB,iC;MAA9B,OAAqD,OiBl6M9C,WjBk6M8C,C;K;IAGzD,6C;MAI0B,kBAAf,yB;MAAuB,iC;MAA9B,OAAq
D,OiBz6M9C,WjBy6M8C,C;K;IAGzD,6C;MAI0B,kBAAf,yB;MAAuB,iC;MAA9B,OAAqD,OiBh7M9C,WjBg7M
8C,C;K;IAGzD,6C;MAI0B,kBAAf,yB;MAAuB,iC;MAA9B,OAAqD,OiBv7M9C,WjBu7M8C,C;K;IAGzD,6C;MA
I0B,kBAAf,yB;MAAuB,iC;MAA9B,OAAqD,OiB97M9C,WjB87M8C,C;K;IAGzD,6C;MAI0B,kBAAf,yB;MAAu
B,iC;MAA9B,OAAqD,OiBr8M9C,WjBq8M8C,C;K;IAGzD,6C;MAI0B,kBAAf,yB;MAAuB,iC;MAA9B,OAAqD,
OiB58M9C,WjB48M8C,C;K;IAGzD,6C;MAI0B,kBAAf,0B;MAAuB,iC;MAA9B,OAAqD,OiBn9M9C,WjBm9M8
C,C;K;IAkoCrD,gC;MAAQ,oBAAS,CAAT,EAAY,wBAAZ,C;K;IAMR,kC;MAAQ,oBAAS,CAAT,EAAY,0BAA
Z,C;K;IAMR,kC;MAAQ,oBAAS,CAAT,EAAY,0BAAZ,C;K;IAMR,kC;MAAQ,oBAAS,CAAT,EAAY,0BAAZ,C;
K;IAMR,kC;MAAQ,oBAAS,CAAT,EAAY,0BAAZ,C;K;IAMR,kC;MAAQ,oBAAS,CAAT,EAAY,0BAAZ,C;K;I
AMR,kC;MAAQ,oBAAS,CAAT,EAAY,0BAAZ,C;K;IAMR,kC;MAAQ,oBAAS,CAAT,EAAY,0BAAZ,C;K;IAM
R,kC;MAAQ,oBAAS,CAAT,EAAY,0BAAZ,C;K;oFAEZ,qB;MAKI,OAAO,qBAAQ,C;K;sFAGnB,qB;MAKI,OA
AO,qBAAQ,C;K;sFAGnB,qB;MAKI,OAAO,qBAAQ,C;K;sFAGnB,qB;MAKI,OAAO,qBAAQ,C;K;sFAGnB,qB;
MAKI,OAAO,qBAAQ,C;K;sFAGnB,qB;MAKI,OAAO,qBAAQ,C;K;sFAGnB,qB;MAKI,OAAO,qBAAQ,C;K;sF
AGnB,qB;MAKI,OAAO,qBAAQ,C;K;sFAGnB,qB;MAKI,OAAO,qBAAQ,C;K;0FAGnB,qB;MAKI,OAAO,EAxE
A,qBAAQ,CAwER,C;K;4FAGX,qB;MAKI,OAAO,EAxEA,qBAAQ,CAwER,C;K;4FAGX,qB;MAKI,OAAO,EAx
EA,qBAAQ,CAwER,C;K;4FAGX,qB;MAKI,OAAO,EAxEA,qBAAQ,CAwER,C;K;4FAGX,qB;MAKI,OAAO,EA
xEA,qBAAQ,CAwER,C;K;4FAGX,qB;MAKI,OAAO,EAxEA,qBAAQ,CAwER,C;K;4FAGX,qB;MAKI,OAAO,E
AxEA,qBAAQ,CAwER,C;K;4FAGX,qB;MAKI,OAAO,EAxEA,qBAAQ,CAwER,C;K;4FAGX,qB;MAKI,OAAO,
EAxEA,qBAAQ,CAwER,C;K;IAOP,kC;MAAQ,0BAAO,CAAP,I;K;IAMR,oC;MAAQ,0BAAO,CAAP,I;K;IAMR,
oC;MAAQ,0BAAO,CAAP,I;K;IAMR,oC;MAAQ,0BAAO,CAAP,I;K;IAMR,oC;MAAQ,0BAAO,CAAP,I;K;IAM
R,oC;MAAQ,0BAAO,CAAP,I;K;IAMR,oC;MAAQ,0BAAO,CAAP,I;K;IAMR,oC;MAAQ,0BAAO,CAAP,I;K;IA
MR,oC;MAAQ,0BAAO,CAAP,I;K;IA8TZ,yD;MAcI,sBAAS,cAAT,EAAyB,SAAzB,EAAoC,OAApC,C;K;IAGJ,y
D;MAYI,mBAAK,SAAL,EAAgB,OAAhB,C;MACA,qBAAQ,SAAR,EAAmB,OAAnB,C;K;IAGJ,yD;MAYI,mBA
AK,SAAL,EAAgB,OAAhB,C;MACA,sBAAQ,SAAR,EAAmB,OAAnB,C;K;IAGJ,0D;MAYI,mBAAK,SAAL,EA
AgB,OAAhB,C;MACA,sBAAQ,SAAR,EAAmB,OAAnB,C;K;IAGJ,0D;MAYI,mBAAK,SAAL,EAAgB,OAAhB,
C;MACA,sBAAQ,SAAR,EAAmB,OAAnB,C;K;IAGJ,0D;MAYI,mBAAK,SAAL,EAAgB,OAAhB,C;MACA,sBA
AQ,SAAR,EAAmB,OAAnB,C;K;IAGJ,0D;MAYI,mBAAK,SAAL,EAAgB,OAAhB,C;MACA,sBAAQ,SAAR,EA
AmB,OAAnB,C;K;IAGJ,0D;MAYI,mBAAK,SAAL,EAAgB,OAAhB,C;MACA,sBAAQ,SAAR,EAAmB,OAAnB,

C;K;IA2B0B,oD;MAAA,wB;QAAW,2BAAK,KAAL,C;O;K;IAJzC,mC;MAII,OAAO,qBAAa,gBAAb,EAAmB,gC
AAnB,C;K;IAOgB,8C;MAAA,wB;QAAW,wBAAK,KAAL,C;O;K;IAJtC,gC;MAII,OAAO,+BAAU,gBAAV,GAA
gB,6BAAhB,C;K;IAOgB,8C;MAAA,wB;QAAW,wBAAK,KAAL,C;O;K;IAJtC,gC;MAII,OAAO,kBAAU,gBAA
V,EAAgB,6BAAhB,C;K;IAOkB,kD;MAAA,wB;QAAW,0BAAK,KAAL,C;O;K;IAJxC,kC;MAII,OAAO,kCAAY,
gBAAZ,GAAkB,+BAAlB,C;K;IAOiB,gD;MAAA,wB;QAAW,yBAAK,KAAL,C;O;K;IAJvC,iC;MAII,OAAO,kC
AAW,gBAAX,GAAiB,8BAAjB,C;K;IAOe,4C;MAAA,wB;QAAW,uBAAK,KAAL,C;O;K;IAJrC,+B;MAII,OAAO
,gCAAS,gBAAT,GAAe,4BAAf,C;K;IAOgB,8C;MAAA,wB;QAAW,wBAAK,KAAL,C;O;K;IAJtC,gC;MAII,OAA
O,kBAAU,gBAAV,EAAgB,6BAAhB,C;K;IAOiB,gD;MAAA,wB;QAAW,yBAAK,KAAL,C;O;K;IAJvC,iC;MAII,
OAAO,gCAAW,gBAAX,GAAiB,8BAAjB,C;K;wFA2CX,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,uC;QAW
I,eAAiC,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAY,mBAAoB,QAApB,C;QAyqBH,Q;QAA
hB,iD;UAAgB,cAAhB,e;UACI,WA1qB8C,SA0qB/B,CAAU,OAAV,C;UOx+QnB,wBAAI,IAAK,MAAT,EAAgB,
IAAK,OAArB,C;;QP8zPA,OA4qBO,W;O;KAxrBX,C;0FAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,uC;Q
AWI,eAAiC,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAY,mBAAoB,QAApB,C;QAyqBH,Q;
QAAhB,iD;UAAgB,cAAhB,e;UACI,WA1qB8C,SA0qB/B,CAAU,OAAV,C;UOv/QnB,wBAAI,IAAK,MAAT,EA
AgB,IAAK,OAArB,C;;QP60PA,OA4qBO,W;O;KAxrBX,C;0FAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,
uC;QAWI,eAAiC,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAY,mBAAoB,QAApB,C;QAyqB
H,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA1qB8C,SA0qB/B,CAAU,OAAV,C;UOtgRnB,wBAAI,IAAK,MAAT
,EAAgB,IAAK,OAArB,C;;QP41PA,OA4qBO,W;O;KAxrBX,C;0FAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MA
AA,uC;QAWI,eAAiC,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAY,mBAAoB,QAApB,C;QA
yqBH,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA1qB8C,SA0qB/B,CAAU,OAAV,C;UOrhRnB,wBAAI,IAAK,M
AAT,EAAgB,IAAK,OAArB,C;;QP22PA,OA4qBO,W;O;KAxrBX,C;0FAeA,yB;MAAA,0D;MAAA,yD;MAAA,u
E;MAAA,uC;QAWI,eAAiC,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAY,mBAAoB,QAApB,
C;QAyqBH,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA1qB8C,SA0qB/B,CAAU,OAAV,C;UOpiRnB,wBAAI,IAA
K,MAAT,EAAgB,IAAK,OAArB,C;;QP03PA,OA4qBO,W;O;KAxrBX,C;0FAeA,yB;MAAA,0D;MAAA,yD;MAA
A,uE;MAAA,uC;QAWI,eAAiC,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAY,mBAAoB,QAA
pB,C;QAyqBH,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA1qB8C,SA0qB/B,CAAU,OAAV,C;UOnjRnB,wBAAI,I
AAK,MAAT,EAAgB,IAAK,OAArB,C;;QPy4PA,OA4qBO,W;O;KAxrBX,C;0FAeA,yB;MAAA,0D;MAAA,yD;M
AAA,uE;MAAA,uC;QAWI,eAAiC,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAY,mBAAoB,Q
AApB,C;QAyqBH,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA1qB8C,SA0qB/B,CAAU,OAAV,C;UOlkRnB,wBA
AI,IAAK,MAAT,EAAgB,IAAK,OAArB,C;;QPw5PA,OA4qBO,W;O;KAxrBX,C;0FAeA,yB;MAAA,0D;MAAA,y
D;MAAA,uE;MAAA,uC;QAWI,eAAiC,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAY,mBAAo
B,QAApB,C;QAyqBH,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA1qB8C,SA0qB/B,CAAU,OAAV,C;UOjlRnB,w
BAAI,IAAK,MAAT,EAAgB,IAAK,OAArB,C;;QPu6PA,OA4qBO,W;O;KAxrBX,C;0FAeA,yB;MAAA,0D;MAA
A,yD;MAAA,uE;MA4qBA,oC;MAAA,gC;MA5qBA,uC;QAWI,eAAiC,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,EA
Ad,C;QAC1B,kBAAY,mBAAoB,QAApB,C;QAyqBH,Q;QAAhB,iD;UAAgB,cAAhB,0B;UACI,WA1qB8C,SA0q
B/B,CAAU,oBAAV,C;UOhmRnB,wBAAI,IAAK,MAAT,EAAgB,IAAK,OAArB,C;;QPs7PA,OA4qBO,W;O;KAxr
BX,C;4FAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,yC;QAWI,eAAiC,cAAlB,YAAY,gBAAZ,CAAkB,E
AAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAmQL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAp
QoC,WAoQhC,CAAY,OAAZ,CAAJ,EAA0B,OAA1B,C;;QApQhB,OAsQO,W;O;KAlRX,C;8FAeA,yB;MAAA,0
D;MAAA,yD;MAAA,uE;MAAA,yC;QAWI,eAAiC,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBA
Ac,mBAAuB,QAAvB,C;QAoQL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aArQuC,WAqQnC,CAAY,OAA
Z,CAAJ,EAA0B,OAA1B,C;;QArQhB,OAuQO,W;O;KAnRX,C;8FAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MA
AA,yC;QAWI,eAAiC,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAwB,QAAxB,C;QAq
QL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAtQwC,WAsQpC,CAAY,OAAZ,CAAJ,EAA0B,OAA1B,C;;
QAtQhB,OAwQO,W;O;KApRX,C;8FAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,yC;QAWI,eAAiC,cAAl
B,YAAY,gBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAsB,QAAtB,C;QAsQL,Q;QAAhB,iD;UAAgB,c
AAhB,e;UACI,WAAY,aAvQsC,WAuQlC,CAAY,OAAZ,CAAJ,EAA0B,OAA1B,C;;QAvQhB,OAyQO,W;O;KAr
RX,C;8FAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,yC;QAWI,eAAiC,cAAlB,YAAY,gBAAZ,CAAkB,E

AAc,EAAd,C;QAC1B,kBAAc,mBAAuB,QAAvB,C;QAuQL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAx
QuC,WAwQnC,CAAY,OAAZ,CAAJ,EAA0B,OAA1B,C;;QAxQhB,OA0QO,W;O;KAtRX,C;8FAeA,yB;MAAA,0
D;MAAA,yD;MAAA,uE;MAAA,yC;QAWI,eAAiC,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBA
Ac,mBAAwB,QAAxB,C;QAwQL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAzQwC,WAyQpC,CAAY,OA
AZ,CAAJ,EAA0B,OAA1B,C;;QAzQhB,OA2QO,W;O;KAvRX,C;8FAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;
MAAA,yC;QAWI,eAAiC,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAyB,QAAzB,C;
QAyQL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA1QyC,WA0QrC,CAAY,OAAZ,CAAJ,EAA0B,OAA1B
,C;;QA1QhB,OA4QO,W;O;KAxRX,C;8FAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,yC;QAWI,eAAiC,c
AAlB,YAAY,gBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBA0B,QAA1B,QA1B,C;QA0QL,Q;QAAhB,iD;UAAgB,
cAAhB,e;UACI,WAAY,aA3Q0C,WA2QtC,CAAY,OAAZ,CAAJ,EAA0B,OAA1B,C;;QA3QhB,OA6QO,W;O;
KAzRX,C;8FAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MA6QA,oC;MAAA,gC;MA7QA,yC;QAWI,eAAiC,cAA
lB,YAAY,gBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAuB,QAAvB,C;QA2QL,Q;QAAhB,iD;UAAgB,B,
cAAhB,e;UACI,WAAY,aA5Q5C,WA4QwC,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA6QL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA9Q9C,WA8QoC,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA+QL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAhRhD,WAgRsC,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAiRL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAlRlD,WAkRwC,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAmRL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aApRpD,WAoR0C,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAqRL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAtRtD,WAsR4C,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAuRL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAxRxD,WAwR8C,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAyRL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA1R1D,WA0RgD,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA2RL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA5R5D,WA4RkD,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA6RL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA9R9D,WA8RoD,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA+RL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAhSlE,WAgSwD,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAiSL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAlSpE,WAkS0D,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAmSL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aApSxE,WAoS8D,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAqSL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAtS1E,WAsSgE,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAuSL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAxS5E,WAwSkE,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAySL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA1S9E,WA0SoE,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA2SL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA5SlF,WA4SwE,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA6SL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA9SpF,WA8S0E,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA+SL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAhTtF,WAgT4E,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAiTL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAlTxF,WAkT8E,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAmTL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aApT1F,WAoTgF,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAqTL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAtT5F,WAsTkF,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAuTL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAxT9F,WAwToF,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAyTL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA1TlG,WA0TwF,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA2TL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA5TpG,WA4T0F,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA6TL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA9TtG,WA8T4F,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA+TL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAhUxG,WAgU8F,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAiUL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAlU1G,WAkUgG,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAmUL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aApU5G,WAoUkG,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAqUL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAtU9G,WAsUoG,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAuUL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAxUlH,WAwUwG,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAyUL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA1UtH,WA0U4G,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA2UL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA5U1H,WA4UgH,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA6UL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA9U5H,WA8UkH,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA+UL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAhV9H,WAgVoH,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAiVL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAlVlI,WAkVwH,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAmVL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aApVpI,WAoV0H,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAqVL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAtVtI,WAsV4H,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAuVL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAxVxI,WAwV8H,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAyVL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA1V1I,WA0VgI,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA2VL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA5V5I,WA4VkI,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA6VL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA9V9I,WA8VoI,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA+VL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAhWlJ,WAgWwI,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAiWL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAlWpJ,WAkW0I,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAmWL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aApWtJ,WAoW4I,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAqWL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAtWxJ,WAsW8I,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAuWL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAxW1J,WAwWgJ,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAyWL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA1W5J,WA0WkJ,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA2WL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA5W9J,WA4WoJ,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA6WL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA9WlK,WA8WwJ,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA+WL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAhXpK,WAgX0J,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAiXL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAlXtK,WAkX4J,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAmXL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aApXxK,WAoX8J,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAqXL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAtX1K,WAsXgK,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAuXL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAxX5K,WAwXkK,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAyXL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA1X9K,WA0XoK,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA2XL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA5XlL,WA4XwK,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA6XL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA9XpL,WA8X0K,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA+XL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAhYtL,WAgY4K,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAiYL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAlYxL,WAkY8K,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAmYL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aApY1L,WAoYgL,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAqYL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAtY5L,WAsYkL,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAuYL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAxY9L,WAwYoL,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAyYL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA1YlM,WA0YwL,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA2YL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA5YpM,WA4Y0L,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA6YL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA9YtM,WA8Y4L,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA+YL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAhZxM,WAgZ8L,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAiZL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAlZ1M,WAkZgM,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAmZL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aApZ5M,WAoZkM,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAqZL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAtZ9M,WAsZoM,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAuZL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAxZlN,WAwZwM,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAyZL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA1ZpN,WA0Z0M,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA2ZL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA5ZtN,WA4Z4M,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA6ZL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA9ZxN,WA8Z8M,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA+ZL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAha1N,WAgagN,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAibL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAlb1O,WAkbgO,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAmbL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aApb5O,WAobkO,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAqbL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAtb9O,WAsboO,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAubL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAxblP,WAwbwO,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAybL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA1bpP,WA0b0O,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA2bL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA5btP,WA4b4O,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA6bL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA9bxP,WA8b8O,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA+bL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAhc1P,WAgcgP,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAicL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAlc5P,WAkckP,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAmcL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aApc9P,WAocoP,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAqcL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAtclQ,WAscwP,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAucL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAxcpQ,WAwc0P,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAycL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA1ctQ,WA0c4P,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA2cL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA5cxQ,WA4c8P,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA6cL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA9c1Q,WA8cgQ,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA+cL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAhd5Q,WAgdkQ,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAidL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAld9Q,WAkdoQ,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAmdL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aApdlR,WAodwQ,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAqdL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAtdpR,WAsd0Q,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAudL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAxdtR,WAwd4Q,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAydL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA1dxR,WA0d8Q,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA2dL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA5d1R,WA4dgR,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA6dL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA9d5R,WA8dkR,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA+dL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAhe9R,WAgeoR,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAieL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAlelS,WAkewR,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAmeL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aApepS,WAoe0R,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAqeL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAtetS,WAse4R,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAueL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAxexS,WAwe8R,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAyeL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA1e1S,WA0egS,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA2eL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA5e5S,WA4ekS,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA6eL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA9e9S,WA8eoS,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA+eL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAhflT,WAgfwS,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAifL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAlfpT,WAkf0S,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAmfL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aApftT,WAof4S,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAqfL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAtfxT,WAsf8S,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAufL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAxf1T,WAwfgT,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAyfL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA1f5T,WA0fkT,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA2fL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA5f9T,WA4foT,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA6fL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA9flU,WA8fwT,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA+fL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAhgpU,WAggwU,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAigL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAlgV1U,WAkgVgU,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAmgL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aApgV5U,WAogVkU,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAqgL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAtgV9U,WAsgVoU,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAugL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAxgVlV,WAwgVwU,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAygL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA1gVpV,WA0gV0U,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA2gL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA5gVtV,WA4gV4U,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA6gL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA9gVxV,WA8gV8U,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA+gL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAhhV1V,WAghVgV,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAihL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAlhV5V,WAkhVkV,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAmhL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAphV9V,WAohVoV,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAqhL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAthVlW,WAshVwV,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAuhL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAxhVpW,WAwhV0V,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAyhL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA1hVtW,WA0hV4V,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA2hL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA5hVxW,WA4hV8V,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA6hL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA9hV1W,WA8hVgW,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA+hL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAhiV5W,WAgiVkW,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAiiL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAliV9W,WAkiVoW,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAmiL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aApiVlX,WAoiVwW,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAqiL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAtiVpX,WAsiV0W,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAuiL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAxiVtX,WAwiV4W,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAyiL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA1iVxX,WA0iV8W,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA2iL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA5iV1X,WA4iVgX,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA6iL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA9iV5X,WA8iVkX,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA+iL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAhjV9X,WAgjVoX,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAijL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAljVlY,WAkjVwX,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAmjL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aApjVpY,WAojV0X,oBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAqjL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA

WAAY,aAAI,YAAY,OAAZ,CAAJ,EAA0B,OAA1B,C;;MAEhB,OAAO,W;K;kGAGX,+C;MAUoB,Q;MAAhB,w
BAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAY,aAAI,YAAY,OAAZ,CAAJ,EAA0B,OAA1B,C;;MA
EhB,OAAO,W;K;kGAGX,+C;MAUoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAA
Y,aAAI,YAAY,OAAZ,CAAJ,EAA0B,OAA1B,C;;MAEhB,OAAO,W;K;iGAGX,yB;MAAA,oC;MAAA,gC;MAA
A,sD;QAUoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UACI,WAAY,aAAI,YAAY,o
BAAZ,CAAJ,EAA0B,oBAA1B,C;;QAEhB,OAAO,W;O;KAbX,C;kGAgBA,+D;MAUoB,Q;MAAhB,wBAAgB,S
AAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAY,aAAI,YAAY,OAAZ,CAAJ,EAA0B,eAAe,OAAf,CAA1B,C;;
MAEhB,OAAO,W;K;kGAGX,+D;MAUoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,W
AAY,aAAI,YAAY,OAAZ,CAAJ,EAA0B,eAAe,OAAf,CAA1B,C;;MAEhB,OAAO,W;K;mGAGX,+D;MAUoB,Q;
MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAY,aAAI,YAAY,OAAZ,CAAJ,EAA0B,eAA
e,OAAf,CAA1B,C;;MAEhB,OAAO,W;K;mGAGX,+D;MAUoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,
SAAhB,M;QACI,WAAY,aAAI,YAAY,OAAZ,CAAJ,EAA0B,eAAe,OAAf,CAA1B,C;;MAEhB,OAAO,W;K;mGA
GX,+D;MAUoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAY,aAAI,YAAY,OAAZ,
CAAJ,EAA0B,eAAe,OAAf,CAA1B,C;;MAEhB,OAAO,W;K;mGAGX,+D;MAUoB,Q;MAAhB,wBAAgB,SAAhB
,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAY,aAAI,YAAY,OAAZ,CAAJ,EAA0B,eAAe,OAAf,CAA1B,C;;MAEh
B,OAAO,W;K;mGAGX,+D;MAUoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAY,
aAAI,YAAY,OAAZ,CAAJ,EAA0B,eAAe,OAAf,CAA1B,C;;MAEhB,OAAO,W;K;mGAGX,+D;MAUoB,Q;MAA
hB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAY,aAAI,YAAY,OAAZ,CAAJ,EAA0B,eAAe,OA
Af,CAA1B,C;;MAEhB,OAAO,W;K;mGAGX,yB;MAAA,oC;MAAA,gC;MAAA,sE;QAUoB,Q;QAAhB,wBAAgB
,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UACI,WAAY,aAAI,YAAY,oBAAZ,CAAJ,EAA0B,eAAe,oBAA
f,CAA1B,C;;QAEhB,OAAO,W;O;KAbX,C;2FAgBA,6C;MASoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAA
A,SAAhB,M;QACI,WAAe,UAAU,OAAV,C;QOx+QnB,wBAAI,IAAK,MAAT,EAAgB,IAAK,OAArB,C;;MP0+Q
A,OAAO,W;K;8FAGX,6C;MASoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAe,U
AAU,OAAV,C;QOv/QnB,wBAAI,IAAK,MAAT,EAAgB,IAAK,OAArB,C;;MPy/QA,OAAO,W;K;8FAGX,6C;M
ASoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAe,UAAU,OAAV,C;QOtgRnB,wB
AAI,IAAK,MAAT,EAAgB,IAAK,OAArB,C;;MPwgRA,OAAO,W;K;8FAGX,6C;MASoB,Q;MAAhB,wBAAgB,S
AAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAe,UAAU,OAAV,C;QOrhRnB,wBAAI,IAAK,MAAT,EAAgB,IA
AK,OAArB,C;;MPuhRA,OAAO,W;K;8FAGX,6C;MASoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAA
hB,M;QACI,WAAe,UAAU,OAAV,C;QOpiRnB,wBAAI,IAAK,MAAT,EAAgB,IAAK,OAArB,C;;MPsiRA,OAAO
,W;K;8FAGX,6C;MASoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAe,UAAU,OA
AV,C;QOnjRnB,wBAAI,IAAK,MAAT,EAAgB,IAAK,OAArB,C;;MPqjRA,OAAO,W;K;8FAGX,6C;MASoB,Q;M
AAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAe,UAAU,OAAV,C;QOlkRnB,wBAAI,IAAK,
MAAT,EAAgB,IAAK,OAArB,C;;MPokRA,OAAO,W;K;8FAGX,6C;MASoB,Q;MAAhB,wBAAgB,SAAhB,gB;Q
AAgB,cAAA,SAAhB,M;QACI,WAAe,UAAU,OAAV,C;QOjlRnB,wBAAI,IAAK,MAAT,EAAgB,IAAK,OAArB,
C;;MPmlRA,OAAO,W;K;8FAGX,yB;MAAA,oC;MAAA,gC;MAAA,oD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB
;UAAgB,cAAhB,UAAgB,SAAhB,O;UACI,WAAe,UAAU,oBAAV,C;UOhmRnB,wBAAI,IAAK,MAAT,EAAgB,I
AAK,OAArB,C;;QPkmRA,OAAO,W;O;KAZX,C;gGAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,2C;QAY
I,aAAa,mBAAsC,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,EAAd,CAAtC,C;QAsJG,Q;QAAhB,iD;UAAgB,cAAhB,e
;UArJuB,MAsJP,aAAI,OAAJ,EAtJe,aAsJF,CAAc,OAAd,CAAb,C;;QAtJhB,OAAuB,M;O;KAb3B,C;kGAgBA,yB;
MAAA,0D;MAAA,yD;MAAA,uE;MAAA,2C;QAaI,aAAa,mBAAyC,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,EAA
d,CAAzC,C;QAsJG,Q;QAAhB,iD;UAAgB,cAAhB,e;UArJuB,MAsJP,aAAI,OAAJ,EAtJe,aAsJF,CAAc,OAAd,CA
Ab,C;;QAtJhB,OAAuB,M;O;KAd3B,C;kGAiBA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,2C;QAaI,aAAa,m
BAA0C,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,EAAd,CAA1C,C;QAsJG,Q;QAAhB,iD;UAAgB,cAAhB,e;UArJuB
,MAsJP,aAAI,OAAJ,EAtJe,aAsJF,CAAc,OAAd,CAAb,C;;QAtJhB,OAAuB,M;O;KAd3B,C;kGAiBA,yB;MAAA,0
D;MAAA,yD;MAAA,uE;MAAA,2C;QAaI,aAAa,mBAAwC,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,EAAd,CAAx
C,C;QAsJG,Q;QAAhB,iD;UAAgB,cAAhB,e;UArJuB,MAsJP,aAAI,OAAJ,EAtJe,aAsJF,CAAc,OAAd,CAAb,C;;Q
AtJhB,OAAuB,M;O;KAd3B,C;kGAiBA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,2C;QAaI,aAAa,mBAAyC,
cAAlB,YAAY,gBAAZ,CAAkB,EAAc,EAAd,CAAzC,C;QAsJG,Q;QAAhB,iD;UAAgB,cAAhB,e;UArJuB,MAsJP,

aAAI,OAAJ,EAtJe,aAsJF,CAAc,OAAd,CAAb,C;;QAtJhB,OAAuB,M;O;KAd3B,C;kGAiBA,yB;MAAA,0D;MAA
A,yD;MAAA,uE;MAAA,2C;QAaI,aAAa,mBAA0C,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,EAAd,CAA1C,C;QAsJ
G,Q;QAAhB,iD;UAAgB,cAAhB,e;UArJuB,MAsJP,aAAI,OAAJ,EAtJe,aAsJF,CAAc,OAAd,CAAb,C;;QAtJhB,OA
AuB,M;O;KAd3B,C;kGAiBA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,2C;QAaI,aAAa,mBAA2C,cAAlB,Y
AAY,gBAAZ,CAAkB,EAAc,EAAd,CAA3C,C;QAsJG,Q;QAAhB,iD;UAAgB,cAAhB,e;UArJuB,MAsJP,aAAI,O
AAJ,EAtJe,aAsJF,CAAc,OAAd,CAAb,C;;QAtJhB,OAAuB,M;O;KAd3B,C;kGAiBA,yB;MAAA,0D;MAAA,yD;M
AAA,uE;MAAA,2C;QAaI,aAAa,mBAA4C,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,EAAd,CAA5C,C;QAsJG,Q;Q
AAhB,iD;UAAgB,cAAhB,e;UArJuB,MAsJP,aAAI,OAAJ,EAtJe,aAsJF,CAAc,OAAd,CAAb,C;;QAtJhB,OAAuB,
M;O;KAd3B,C;kGAiBA,yB;MAAA,uD;MAAA,0D;MAAA,yD;MAAA,uE;MAwJA,oC;MAAA,gC;MAxJA,2C;Q
AaI,aAAa,mBAA2D,cAApC,YAAiB,aAAL,gBAAK,EAAa,GAAb,CAAjB,CAAoC,EAAc,EAAd,CAA3D,C;QAsJ
G,Q;QAAhB,iD;UAAgB,cAAhB,0B;UArJuB,MAsJP,aAAI,oBAAJ,EAtJe,aAsJF,CAAc,oBAAd,CAAb,C;;QAtJhB
,OAAuB,M;O;KAd3B,C;oGAiBA,iD;MAUoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,
WAAY,aAAI,OAAJ,EAAa,cAAc,OAAd,CAAb,C;;MAEhB,OAAO,W;K;sGAGX,iD;MAWoB,Q;MAAhB,wBAA
gB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAY,aAAI,OAAJ,EAAa,cAAc,OAAd,CAAb,C;;MAEhB,OAA
O,W;K;sGAGX,iD;MAWoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAY,aAAI,O
AAJ,EAAa,cAAc,OAAd,CAAb,C;;MAEhB,OAAO,W;K;sGAGX,iD;MAWoB,Q;MAAhB,wBAAgB,SAAhB,gB;Q
AAgB,cAAA,SAAhB,M;QACI,WAAY,aAAI,OAAJ,EAAa,cAAc,OAAd,CAAb,C;;MAEhB,OAAO,W;K;sGAGX,i
D;MAWoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAY,aAAI,OAAJ,EAAa,cAAc,
OAAd,CAAb,C;;MAEhB,OAAO,W;K;sGAGX,iD;MAWoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SA
AhB,M;QACI,WAAY,aAAI,OAAJ,EAAa,cAAc,OAAd,CAAb,C;;MAEhB,OAAO,W;K;sGAGX,iD;MAWoB,Q;M
AAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAY,aAAI,OAAJ,EAAa,cAAc,OAAd,CAAb,C;;
MAEhB,OAAO,W;K;sGAGX,iD;MAWoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,W
AAY,aAAI,OAAJ,EAAa,cAAc,OAAd,CAAb,C;;MAEhB,OAAO,W;K;sGAGX,yB;MAAA,oC;MAAA,gC;MAAA,
wD;QAWoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UACI,WAAY,aAAI,oBAAJ,E
AAa,cAAc,oBAAd,CAAb,C;;QAEhB,OAAO,W;O;KAdX,C;IAiBA,8C;MAIiB,Q;MAAb,wBAAa,SAAb,gB;QAA
a,WAAA,SAAb,M;QACI,WAAY,WAAI,IAAJ,C;;MAEhB,OAAO,W;K;IAGX,gD;MAIiB,Q;MAAb,wBAAa,SAA
b,gB;QAAa,WAAA,SAAb,M;QACI,WAAY,WAAI,IAAJ,C;;MAEhB,OAAO,W;K;IAGX,gD;MAIiB,Q;MAAb,w
BAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,WAAY,WAAI,IAAJ,C;;MAEhB,OAAO,W;K;IAGX,gD;MAIiB,
Q;MAAb,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,WAAY,WAAI,IAAJ,C;;MAEhB,OAAO,W;K;IAGX,
gD;MAIiB,Q;MAAb,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,WAAY,WAAI,IAAJ,C;;MAEhB,OAAO,
W;K;IAGX,gD;MAIiB,Q;MAAb,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,WAAY,WAAI,IAAJ,C;;MAE
hB,OAAO,W;K;IAGX,gD;MAIiB,Q;MAAb,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,WAAY,WAAI,IA
AJ,C;;MAEhB,OAAO,W;K;IAGX,gD;MAIiB,Q;MAAb,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,WAAY
,WAAI,IAAJ,C;;MAEhB,OAAO,W;K;IAGX,gD;MAIiB,Q;MAAb,wBAAa,SAAb,gB;QAAa,WAAb,UAAa,SAAb,
O;QACI,WAAY,WAAI,iBAAJ,C;;MAEhB,OAAO,W;K;IAGX,8B;MAII,OAAO,wBAAa,eAAW,YAAY,gBAAZ,
CAAX,CAAb,C;K;IAGX,gC;MAII,OAAO,0BAAa,eAAc,YAAY,gBAAZ,CAAd,CAAb,C;K;IAGX,gC;MAII,OAA
O,0BAAa,eAAe,YAAY,gBAAZ,CAAf,CAAb,C;K;IAGX,gC;MAII,OAAO,0BAAa,eAAa,YAAY,gBAAZ,CAAb,
CAAb,C;K;IAGX,gC;MAII,OAAO,0BAAa,eAAc,YAAY,gBAAZ,CAAd,CAAb,C;K;IAGX,gC;MAII,OAAO,0BA
Aa,eAAe,YAAY,gBAAZ,CAAf,CAAb,C;K;IAGX,gC;MAII,OAAO,0BAAa,eAAgB,YAAY,gBAAZ,CAAhB,CA
Ab,C;K;IAGX,gC;MAII,OAAO,0BAAa,eAAiB,YAAY,gBAAZ,CAAjB,CAAb,C;K;IAGX,gC;MAII,OAAO,0BA
Aa,eAAc,YAAiB,eAAL,gBAAK,EAAa,GAAb,CAAjB,CAAd,CAAb,C;K;IAGX,2B;MAIiB,IAAN,I;MAAAA,QAA
M,gBAAN,C;aACH,C;UAAK,kB;UAAL,K;aACA,C;UAAK,cAAO,UAAK,CAAL,CAAP,C;UAAL,K;gBACa,qB
AAL,SAAK,C;UAHV,K;;MAAP,W;K;IAOJ,6B;MAIiB,IAAN,I;MAAAA,QAAM,gBAAN,C;aACH,C;UAAK,kB;U
AAL,K;aACA,C;UAAK,cAAO,UAAK,CAAL,CAAP,C;UAAL,K;gBACa,uBAAL,SAAK,C;UAHV,K;;MAAP,W;
K;IAOJ,6B;MAIiB,IAAN,I;MAAAA,QAAM,gBAAN,C;aACH,C;UAAK,kB;UAAL,K;aACA,C;UAAK,cAAO,UAA
K,CAAL,CAAP,C;UAAL,K;gBACa,uBAAL,SAAK,C;UAHV,K;;MAAP,W;K;IAOJ,6B;MAIiB,IAAN,I;MAAAA,Q
AAM,gBAAN,C;aACH,C;UAAK,kB;UAAL,K;aACA,C;UAAK,cAAO,UAAK,CAAL,CAAP,C;UAAL,K;gBACa,
uBAAL,SAAK,C;UAHV,K;;MAAP,W;K;IAOJ,6B;MAIiB,IAAN,I;MAAAA,QAAM,gBAAN,C;aACH,C;UAAK,kB

;UAAL,K;aACA,C;UAAK,cAAO,UAAK,CAAL,CAAP,C;UAAL,K;gBACa,uBAAL,SAAK,C;UAHV,K;;MAAP,
W;K;IAOJ,6B;MAIiB,IAAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,kB;UAAL,K;aACA,C;UAAK,cAAO,U
AAK,CAAL,CAAP,C;UAAL,K;gBACa,uBAAL,SAAK,C;UAHV,K;;MAAP,W;K;IAOJ,6B;MAIiB,IAAN,I;MAA
A,QAAM,gBAAN,C;aACH,C;UAAK,kB;UAAL,K;aACA,C;UAAK,cAAO,UAAK,CAAL,CAAP,C;UAAL,K;gB
ACa,uBAAL,SAAK,C;UAHV,K;;MAAP,W;K;IAOJ,6B;MAIiB,IAAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAA
K,kB;UAAL,K;aACA,C;UAAK,cAAO,UAAK,CAAL,CAAP,C;UAAL,K;gBACa,uBAAL,SAAK,C;UAHV,K;;M
AAP,W;K;IAOJ,6B;MAIiB,IAAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,kB;UAAL,K;aACA,C;UAAK,cA
AO,sBAAK,CAAL,EAAP,C;UAAL,K;gBACa,uBAAL,SAAK,C;UAHV,K;;MAAP,W;K;IAOJ,kC;MAII,OAAO,i
BAAe,aAAL,SAAK,CAAf,C;K;IAGX,oC;MAKiB,Q;MADb,WAAW,iBAAgB,gBAAhB,C;MACX,wBAAa,SAAb
,gB;QAAa,WAAA,SAAb,M;QAAmB,IAAK,WAAI,IAAJ,C;;MACxB,OAAO,I;K;IAGX,oC;MAKiB,Q;MADb,W
AAW,iBAAiB,gBAAjB,C;MACX,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QAAmB,IAAK,WAAI,IAAJ,C;;M
ACxB,OAAO,I;K;IAGX,oC;MAKiB,Q;MADb,WAAW,iBAAe,gBAAf,C;MACX,wBAAa,SAAb,gB;QAAa,WAA
A,SAAb,M;QAAmB,IAAK,WAAI,IAAJ,C;;MACxB,OAAO,I;K;IAGX,oC;MAKiB,Q;MADb,WAAW,iBAAgB,g
BAAhB,C;MACX,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QAAmB,IAAK,WAAI,IAAJ,C;;MACxB,OAAO,I;
K;IAGX,oC;MAKiB,Q;MADb,WAAW,iBAAiB,gBAAjB,C;MACX,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;Q
AAmB,IAAK,WAAI,IAAJ,C;;MACxB,OAAO,I;K;IAGX,oC;MAKiB,Q;MADb,WAAW,iBAAkB,gBAAlB,C;MA
CX,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QAAmB,IAAK,WAAI,IAAJ,C;;MACxB,OAAO,I;K;IAGX,oC;M
AKiB,Q;MADb,WAAW,iBAAmB,gBAAnB,C;MACX,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QAAmB,IAA
K,WAAI,IAAJ,C;;MACxB,OAAO,I;K;IAGX,oC;MAKiB,Q;MADb,WAAW,iBAAgB,gBAAhB,C;MACX,wBAAa
,SAAb,gB;QAAa,WAAb,UAAa,SAAb,O;QAAmB,IAAK,WAAI,iBAAJ,C;;MACxB,OAAO,I;K;IAGX,0B;MAMi
B,IAAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,iB;UAAL,K;aACA,C;UAAK,aAAM,UAAK,CAAL,CAAN,
C;UAAL,K;gBACQ,+BAAa,qBAAiB,YAAY,gBAAZ,CAAjB,CAAb,C;UAHL,K;;MAAP,W;K;IAOJ,4B;MAMiB,
IAAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,iB;UAAL,K;aACA,C;UAAK,aAAM,UAAK,CAAL,CAAN,C;
UAAL,K;gBACQ,iCAAa,qBAAoB,YAAY,gBAAZ,CAApB,CAAb,C;UAHL,K;;MAAP,W;K;IAOJ,4B;MAMiB,I
AAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,iB;UAAL,K;aACA,C;UAAK,aAAM,UAAK,CAAL,CAAN,C;
UAAL,K;gBACQ,iCAAa,qBAAqB,YAAY,gBAAZ,CAArB,CAAb,C;UAHL,K;;MAAP,W;K;IAOJ,4B;MAMiB,IA
AN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,iB;UAAL,K;aACA,C;UAAK,aAAM,UAAK,CAAL,CAAN,C;U
AAL,K;gBACQ,iCAAa,qBAAmB,YAAY,gBAAZ,CAAnB,CAAb,C;UAHL,K;;MAAP,W;K;IAOJ,4B;MAMiB,IA
AN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,iB;UAAL,K;aACA,C;UAAK,aAAM,UAAK,CAAL,CAAN,C;U
AAL,K;gBACQ,iCAAa,qBAAoB,YAAY,gBAAZ,CAApB,CAAb,C;UAHL,K;;MAAP,W;K;IAOJ,4B;MAMiB,IA
AN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,iB;UAAL,K;aACA,C;UAAK,aAAM,UAAK,CAAL,CAAN,C;U
AAL,K;gBACQ,iCAAa,qBAAqB,YAAY,gBAAZ,CAArB,CAAb,C;UAHL,K;;MAAP,W;K;IAOJ,4B;MAMiB,IAA
N,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,iB;UAAL,K;aACA,C;UAAK,aAAM,UAAK,CAAL,CAAN,C;UA
AL,K;gBACQ,iCAAa,qBAAsB,YAAY,gBAAZ,CAAtB,CAAb,C;UAHL,K;;MAAP,W;K;IAOJ,4B;MAMiB,IAAN
,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,iB;UAAL,K;aACA,C;UAAK,aAAM,UAAK,CAAL,CAAN,C;UAA
L,K;gBACQ,iCAAa,qBAAuB,YAAY,gBAAZ,CAAvB,CAAb,C;UAHL,K;;MAAP,W;K;IAOJ,4B;MAMiB,IAAN,I
;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,iB;UAAL,K;aACA,C;UAAK,aAAM,sBAAK,CAAL,EAAN,C;UAAL
,K;gBACQ,iCAAa,qBAAoB,YAAiB,eAAL,gBAAK,EAAa,GAAb,CAAjB,CAApB,CAAb,C;UAHL,K;;MAAP,W;
K;oFAOJ,yB;MAAA,+D;MAwaA,gD;MAxaA,uC;QAMW,kBAAU,gB;QAsaD,Q;QAAhB,iD;UAAgB,cAAhB,e;U
ACI,WAva6B,SAualB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAxahB,OA0aO,W;O;KAhbX,C;
sFASA,yB;MAAA,+D;MA0aA,gD;MA1aA,uC;QAMW,kBAAU,gB;QAwaD,Q;QAAhB,iD;UAAgB,cAAhB,e;UA
CI,WAza6B,SAyalB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA1ahB,OA4aO,W;O;KAlbX,C;sF
ASA,yB;MAAA,+D;MA4aA,gD;MA5aA,uC;QAMW,kBAAU,gB;QA0aD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,
WA3a6B,SA2alB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA5ahB,OA8aO,W;O;KApbX,C;sFA
SA,yB;MAAA,+D;MA8aA,gD;MA9aA,uC;QAMW,kBAAU,gB;QA4aD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,
WA7a6B,SA6alB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA9ahB,OAgbO,W;O;KAtbX,C;sFAS
A,yB;MAAA,+D;MAgbA,gD;MAhbA,uC;QAMW,kBAAU,gB;QA8aD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,W
A/a6B,SA+alB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAhbhB,OAkbO,W;O;KAxbX,C;sFASA

,yB;MAAA,+D;MAkbA,gD;MAlbA,uC;QAMW,kBAAU,gB;QAgbD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAjb6B,SAiblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAlbhB,OAobO,W;O;KA1bX,C;sFASA,yB;MAAA,+D;MAobA,gD;MApbA,uC;QAMW,kBAAU,gB;QAkbD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAnb6B,SAamblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QApbhB,OAsbO,W;O;KA5bX,C;sFASA,yB;MAAA,+D;MAsbA,gD;MAtbA,uC;QAMW,kBAAU,gB;QAobD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WArb6B,SAqblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAtbhB,OAwbO,W;O;KA9bX,C;sFASA,yB;MAAA,+D;MAwbA,gD;MAAA,gC;MAAA,uC;QAMW,kBAAU,gB;QAsbD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAvb6B,SAublB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAxbhB,OA0bO,W;O;KAhcX,C;kBASA,yB;MAAA,+D;MA0bA,gD;MAAA,gC;MAAA,uC;QAMW,kBAAU,gB;QAwbD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAzb6B,SAyblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA1bhB,OA4bO,W;O;KAlcX,C;kBASA,yB;MAAA,+D;MA4bA,gD;MA5bA,uC;QAMW,kBAAU,gB;QA0bD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA3b6B,SA2blB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA5bhB,OA8bO,W;O;KApcX,C;kBASA,yB;MAAA,+D;MA8bA,gD;MA9bA,uC;QAMW,kBAAU,gB;QA4bD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA7b6B,SA6blB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA9bhB,OAgcO,W;O;KAtcX,C;kBASA,yB;MAAA,+D;MAgcA,gD;MAhcA,uC;QAMW,kBAAU,gB;QA8bD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA/b6B,SA+blB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAhchB,OAkcO,W;O;KAxcX,C;kBASA,yB;MAAA,+D;MAkcA,gD;MAlcA,uC;QAMW,kBAAU,gB;QAgcD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAjc6B,SAicblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAlchB,OAocO,W;O;KA1cX,C;kBASA,yB;MAAA,+D;MAocA,gD;MApcA,uC;QAMW,kBAAU,gB;QAkcD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAnc6B,SAmcblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QApchB,OAscO,W;O;KA5cX,C;kBASA,yB;MAAA,+D;MAscA,gD;MAtcA,uC;QAMW,kBAAU,gB;QAocD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WArc6B,SAqcblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAtchB,OAwcO,W;O;KA9cX,C;kBASA,yB;MAAA,+D;MAwcA,gD;MAxcA,uC;QAMW,kBAAU,gB;QAscD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAvc6B,SAucblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAxchB,OA0cO,W;O;KAhdX,C;kBASA,yB;MAAA,+D;MA0cA,gD;MA1cA,uC;QAMW,kBAAU,gB;QAwcD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAzc6B,SAycblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA1chB,OA4cO,W;O;KAldX,C;kBASA,yB;MAAA,+D;MA4cA,gD;MA5cA,uC;QAMW,kBAAU,gB;QA0cD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA3c6B,SA2cblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA5chB,OA8cO,W;O;KApdX,C;kBASA,yB;MAAA,+D;MA8cA,gD;MA9cA,uC;QAMW,kBAAU,gB;QA4cD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA7c6B,SA6cblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA9chB,OAgdO,W;O;KAtdX,C;kBASA,yB;MAAA,+D;MAgdA,gD;MAhdA,uC;QAMW,kBAAU,gB;QA8cD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA/c6B,SA+cblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAhdhB,OAkdO,W;O;KAxdX,C;kBASA,yB;MAAA,+D;MAkdA,gD;MAldA,uC;QAMW,kBAAU,gB;QAgdD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAjd6B,SAidblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAldhB,OAodO,W;O;KA1dX,C;kBASA,yB;MAAA,+D;MAodA,gD;MApdA,uC;QAMW,kBAAU,gB;QAkdD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAnd6B,SAmdblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QApdhB,OAsdO,W;O;KA5dX,C;kBASA,yB;MAAA,+D;MAsdA,gD;MAtdA,uC;QAMW,kBAAU,gB;QAodD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WArd6B,SAqdblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAtdhB,OAwdO,W;O;KA9dX,C;kBASA,yB;MAAA,+D;MAwdA,gD;MAxdA,uC;QAMW,kBAAU,gB;QAsdD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAvd6B,SAudblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAxdhB,OA0dO,W;O;KAheX,C;kBASA,yB;MAAA,+D;MA0dA,gD;MA1dA,uC;QAMW,kBAAU,gB;QAwdD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAzd6B,SAydblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA1dhB,OA4dO,W;O;KAleX,C;kBASA,yB;MAAA,+D;MA4dA,gD;MA5dA,uC;QAMW,kBAAU,gB;QA0dD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA3d6B,SA2dblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA5dhB,OA8dO,W;O;KApeX,C;kBASA,yB;MAAA,+D;MA8dA,gD;MA9dA,uC;QAMW,kBAAU,gB;QA4dD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA7d6B,SA6dblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA9dhB,OAgeO,W;O;KAteX,C;kBASA,yB;MAAA,+D;MAgeA,gD;MAheA,uC;QAMW,kBAAU,gB;QA8dD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA/d6B,SA+dblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAheX,OAkeO,W;O;KAxeX,C;kBASA,yB;MAAA,+D;MAkeA,gD;MAleA,uC;QAMW,kBAAU,gB;QAgeD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAje6B,SAiebnB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAlehB,OAoeO,W;O;KA1eX,C;kBASA,yB;MAAA,+D;MAoeA,gD;MApeA,uC;QAMW,kBAAU,gB;QAkeD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAne6B,SAmebnB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QApehB,OAseO,W;O;KA5eX,C;kBASA,yB;MAAA,+D;MAseA,gD;MAteA,uC;QAMW,kBAAU,gB;QAoeD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAre6B,SAqebnB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAtehB,OAweO,W;O;KA9eX,C;kBASA,yB;MAAA,+D;MAweA,gD;MAxeA,uC;QAMW,kBAAU,gB;QAseD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAve6B,SAuebnB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAxehB,OA0eO,W;O;KAhfX,C;kBASA,yB;MAAA,+D;MA0eA,gD;MA1eA,uC;QAMW,kBAAU,gB;QAweD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAze6B,SAyebnB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA1ehB,OA4eO,W;O;KAlfX,C;kBASA,yB;MAAA,+D;MA4eA,gD;MA5eA,uC;QAMW,kBAAU,gB;QA0eD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA3e6B,SA2ebnB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA5ehB,OA8eO,W;O;KApfX,C;kBASA,yB;MAAA,+D;MA8eA,gD;MA9eA,uC;QAMW,kBAAU,gB;QA4eD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA7e6B,SA6ebnB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA9ehB,OAgfO,W;O;KAtfX,C;kBASA,yB;MAAA,+D;MAgfA,gD;MAhfA,uC;QAMW,kBAAU,gB;QA8eD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA/e6B,SA+eblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAhfhB,OAkfO,W;O;KAxfX,C;kBASA,yB;MAAA,+D;MAkfA,gD;MAlfA,uC;QAMW,kBAAU,gB;QAgfD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAjf6B,SAifblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAlfhB,OAofO,W;O;KA1fX,C;kBASA,yB;MAAA,+D;MAofA,gD;MApfA,uC;QAMW,kBAAU,gB;QAkfD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAnf6B,SAmfblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QApfhB,OAsfO,W;O;KA5fX,C;kBASA,yB;MAAA,+D;MAsfA,gD;MAtfA,uC;QAMW,kBAAU,gB;QAofD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WArf6B,SAqfblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAtfhB,OAwfO,W;O;KA9fX,C;kBASA,yB;MAAA,+D;MAwfA,gD;MAxfA,uC;QAMW,kBAAU,gB;QAsfD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAvf6B,SAufblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAxfhB,OA0fO,W;O;KAhgBX,C;kBASA,yB;MAAA,+D;MA0fA,gD;MA1fA,uC;QAMW,kBAAU,gB;QAwfD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAzf6B,SAyfblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA1fhB,OA4fO,W;O;KAlgBX,C;kBASA,yB;MAAA,+D;MA4fA,gD;MA5fA,uC;QAMW,kBAAU,gB;QA0fD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA3f6B,SA2fblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA5fhB,OA8fO,W;O;KApgBX,C;kBASA,yB;MAAA,+D;MA8fA,gD;MA9fA,uC;QAMW,kBAAU,gB;QA4fD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA7f6B,SA6fblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA9fhB,OAggBO,W;O;KAthBX,C;kBASA,yB;MAAA,+D;MAggBA,gD;MAhgBA,uC;QAMW,kBAAU,gB;QA8fD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA/f6B,SA+fblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAhgBhB,OAkgBO,W;O;KAxhBX,C;kBASA,yB;MAAA,+D;MAkgBA,gD;MAlgBA,uC;QAMW,kBAAU,gB;QAggBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAjgB6B,SAigBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAlgBhB,OAogBO,W;O;KA1hBX,C;kBASA,yB;MAAA,+D;MAogBA,gD;MApgBA,uC;QAMW,kBAAU,gB;QAkgBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAngB6B,SAmgBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QApgBhB,OAsgBO,W;O;KA5hBX,C;kBASA,yB;MAAA,+D;MAsgBA,gD;MAtgBA,uC;QAMW,kBAAU,gB;QAogBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WArgB6B,SAqgBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAtgBhB,OAwgBO,W;O;KA9hBX,C;kBASA,yB;MAAA,+D;MAwgBA,gD;MAxgBA,uC;QAMW,kBAAU,gB;QAsgBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAvgB6B,SAugBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAxgBhB,OA0gBO,W;O;KAhiBX,C;kBASA,yB;MAAA,+D;MA0gBA,gD;MA1gBA,uC;QAMW,kBAAU,gB;QAwgBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAzgB6B,SAygBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA1gBhB,OA4gBO,W;O;KAliBX,C;kBASA,yB;MAAA,+D;MA4gBA,gD;MA5gBA,uC;QAMW,kBAAU,gB;QA0gBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA3gB6B,SA2gBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA5gBhB,OA8gBO,W;O;KApiBX,C;kBASA,yB;MAAA,+D;MA8gBA,gD;MA9gBA,uC;QAMW,kBAAU,gB;QA4gBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA7gB6B,SA6gBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA9gBhB,OAghBO,W;O;KAtiBX,C;kBASA,yB;MAAA,+D;MAghBA,gD;MAhhBA,uC;QAMW,kBAAU,gB;QA8gBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA/gB6B,SA+gBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAhhBhB,OAkhBO,W;O;KAxiBX,C;kBASA,yB;MAAA,+D;MAkhBA,gD;MAlhBA,uC;QAMW,kBAAU,gB;QAghBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAjhB6B,SAihBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAlhBhB,OAohBO,W;O;KA1iBX,C;kBASA,yB;MAAA,+D;MAohBA,gD;MAphBA,uC;QAMW,kBAAU,gB;QAkhBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAnhB6B,SAmhBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAphBhB,OAshBO,W;O;KA5iBX,C;kBASA,yB;MAAA,+D;MAshBA,gD;MAthBA,uC;QAMW,kBAAU,gB;QAohBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WArhB6B,SAqhBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAthBhB,OAwhBO,W;O;KA9iBX,C;kBASA,yB;MAAA,+D;MAwhBA,gD;MAxhBA,uC;QAMW,kBAAU,gB;QAshBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAvhB6B,SAuhBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAxhBhB,OA0hBO,W;O;KAhjBX,C;kBASA,yB;MAAA,+D;MA0hBA,gD;MA1hBA,uC;QAMW,kBAAU,gB;QAwhBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAzhB6B,SAyhBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA1hBhB,OA4hBO,W;O;KAljBX,C;kBASA,yB;MAAA,+D;MA4hBA,gD;MA5hBA,uC;QAMW,kBAAU,gB;QA0hBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA3hB6B,SA2hBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA5hBhB,OA8hBO,W;O;KApjBX,C;kBASA,yB;MAAA,+D;MA8hBA,gD;MA9hBA,uC;QAMW,kBAAU,gB;QA4hBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA7hB6B,SA6hBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA9hBhB,OAgiBO,W;O;KAtjBX,C;kBASA,yB;MAAA,+D;MAgiBA,gD;MAhiBA,uC;QAMW,kBAAU,gB;QA8hBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA/hB6B,SA+hBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAhiBhB,OAkiBO,W;O;KAxjBX,C;kBASA,yB;MAAA,+D;MAkiBA,gD;MAliBA,uC;QAMW,kBAAU,gB;QAgiBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAjiB6B,SAiiBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAliBhB,OAoiBO,W;O;KA1jBX,C;kBASA,yB;MAAA,+D;MAoiBA,gD;MApiBA,uC;QAMW,kBAAU,gB;QAkiBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAniB6B,SAmiBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QApiBhB,OAsiBO,W;O;KA5jBX,C;kBASA,yB;MAAA,+D;MAsiBA,gD;MAtiBA,uC;QAMW,kBAAU,gB;QAoiBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAriB6B,SAqiBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAtiBhB,OAwiBO,W;O;KA9jBX,C;kBASA,yB;MAAA,+D;MAwiBA,gD;MAxiBA,uC;QAMW,kBAAU,gB;QAsiBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAviB6B,SAuiBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAxiBhB,OA0iBO,W;O;KAhkBX,C;kBASA,yB;MAAA,+D;MA0iBA,gD;MA1iBA,uC;QAMW,kBAAU,gB;QAwiBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAziB6B,SAyiBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA1iBhB,OA4iBO,W;O;KAlkBX,C;kBASA,yB;MAAA,+D;MA4iBA,gD;MA5iBA,uC;QAMW,kBAAU,gB;QA0iBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA3iB6B,SA2iBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA5iBhB,OA8iBO,W;O;KApkBX,C;kBASA,yB;MAAA,+D;MA8iBA,gD;MA9iBA,uC;QAMW,kBAAU,gB;QA4iBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA7iB6B,SA6iBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA9iBhB,OAgjBO,W;O;KAtkBX,C;kBASA,yB;MAAA,+D;MAgjBA,gD;MAhjBA,uC;QAMW,kBAAU,gB;QA8iBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA/iB6B,SA+iBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAhjBhB,OAkjBO,W;O;KAxkBX,C;kBASA,yB;MAAA,+D;MAkjBA,gD;MAljBA,uC;QAMW,kBAAU,gB;QAgjBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAjjB6B,SAijBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAljBhB,OAojBO,W;O;KA1kBX,C;kBASA,yB;MAAA,+D;MAojBA,gD;MApjBA,uC;QAMW,kBAAU,gB;QAkjBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAnjB6B,SAmjBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QApjBhB,OAsjBO,W;O;KA5kBX,C;kBASA,yB;MAAA,+D;MAsjBA,gD;MAtjBA,uC;QAMW,kBAAU,gB;QAojBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WArjB6B,SAqjBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAtjBhB,OAwjBO,W;O;KA9kBX,C;kBASA,yB;MAAA,+D;MAwjBA,gD;MAxjBA,uC;QAMW,kBAAU,gB;QAsjBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAvjB6B,SAujBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAxjBhB,OA0jBO,W;O;KAhlBX,C;kBASA,yB;MAAA,+D;MA0jBA,gD;MA1jBA,uC;QAMW,kBAAU,gB;QAwjBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAzjB6B,SAyjBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA1jBhB,OA4jBO,W;O;KAllBX,C;kBASA,yB;MAAA,+D;MA4jBA,gD;MA5jBA,uC;QAMW,kBAAU,gB;QA0jBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA3jB6B,SA2jBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA5jBhB,OA8jBO,W;O;KAplBX,C;kBASA,yB;MAAA,+D;MA8jBA,gD;MA9jBA,uC;QAMW,kBAAU,gB;QA4jBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA7jB6B,SA6jBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA9jBhB,OAgkBO,W;O;KAtlBX,C;kBASA,yB;MAAA,+D;MAgkBA,gD;MAhkBA,uC;QAMW,kBAAU,gB;QA8jBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA/jB6B,SA+jBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAhkBhB,OAkkBO,W;O;KAxlBX,C;kBASA,yB;MAAA,+D;MAkkBA,gD;MAlkBA,uC;QAMW,kBAAU,gB;QAgkBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAjkB6B,SAikBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAlkBhB,OAokBO,W;O;KA1lBX,C;kBASA,yB;MAAA,+D;MAokBA,gD;MApkBA,uC;QAMW,kBAAU,gB;QAkkBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAnkB6B,SAmkBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QApkBhB,OAskBO,W;O;KA5lBX,C;kBASA,yB;MAAA,+D;MAskBA,gD;MAtkBA,uC;QAMW,kBAAU,gB;QAokBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WArkB6B,SAqkBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAtkBhB,OAwkBO,W;O;KA9lBX,C;kBASA,yB;MAAA,+D;MAwkBA,gD;MAxkBA,uC;QAMW,kBAAU,gB;QAskBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAvkB6B,SAukBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAxkBhB,OA0kBO,W;O;KAhmBX,C;kBASA,yB;MAAA,+D;MA0kBA,gD;MA1kBA,uC;QAMW,kBAAU,gB;QAwkBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAzkB6B,SAykBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA1kBhB,OA4kBO,W;O;KAlmBX,C;kBASA,yB;MAAA,+D;MA4kBA,gD;MA5kBA,uC;QAMW,kBAAU,gB;QA0kBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA3kB6B,SA2kBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA5kBhB,OA8kBO,W;O;KApmBX,C;kBASA,yB;MAAA,+D;MA8kBA,gD;MA9kBA,uC;QAMW,kBAAU,gB;QA4kBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA7kB6B,SA6kBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA9kBhB,OAgmBO,W;O;KAtmBX,C;kBASA,yB;MAAA,+D;MAgmBA,gD;MAhmBA,uC;QAMW,kBAAU,gB;QA8kBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA/kB6B,SA+kBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAhlBhB,OAkmBO,W;O;KAxmBX,C;kBASA,yB;MAAA,+D;MAkmBA,gD;MAlmBA,uC;QAMW,kBAAU,gB;QAglBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAjlB6B,SAilBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAllBhB,OAomBO,W;O;KA1mBX,C;kBASA,yB;MAAA,+D;MAomBA,gD;MApmBA,uC;QAMW,kBAAU,gB;QAklBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAnlB6B,SAmlBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAplBhB,OAsmBO,W;O;KA5mBX,C;kBASA,yB;MAAA,+D;MAsmBA,gD;MAtmBA,uC;QAMW,kBAAU,gB;QAolBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WArlB6B,SAqlBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAtlBhB,OAwmBO,W;O;KA9mBX,C;kBASA,yB;MAAA,+D;MAwmBA,gD;MAxmBA,uC;QAMW,kBAAU,gB;QAslBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAvlB6B,SAulBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAxlBhB,OA0mBO,W;O;KAhnBX,C;kBASA,yB;MAAA,+D;MA0mBA,gD;MA1mBA,uC;QAMW,kBAAU,gB;QAwlBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAzlB6B,SAylBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA1lBhB,OA4mBO,W;O;KAlnBX,C;kBASA,yB;MAAA,+D;MA4mBA,gD;MA5mBA,uC;QAMW,kBAAU,gB;QA0lBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA3lB6B,SA2lBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA5lBhB,OA8mBO,W;O;KApnBX,C;kBASA,yB;MAAA,+D;MA8mBA,gD;MA9mBA,uC;QAMW,kBAAU,gB;QA4lBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA7lB6B,SA6lBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA9lBhB,OAgnBO,W;O;KAtnBX,C;kBASA,yB;MAAA,+D;MAgnBA,gD;MAhnBA,uC;QAMW,kBAAU,gB;QA8lBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA/lB6B,SA+lBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAhmBhB,OAknBO,W;O;KAxnBX,C;kBASA,yB;MAAA,+D;MAknBA,gD;MAlnBA,uC;QAMW,kBAAU,gB;QAglBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAjlB6B,SAilBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAllBhB,OAonBO,W;O;KA1nBX,C;kBASA,yB;MAAA,+D;MAonBA,gD;MApnBA,uC;QAMW,kBAAU,gB;QAklBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAnlB6B,SAmlBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAplBhB,OAsnBO,W;O;KA5nBX,C;kBASA,yB;MAAA,+D;MAsnBA,gD;MAtnBA,uC;QAMW,kBAAU,gB;QAolBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WArlB6B,SAqlBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAtlBhB,OAwnBO,W;O;KA9nBX,C;kBASA,yB;MAAA,+D;MAwnBA,gD;MAxnBA,uC;QAMW,kBAAU,gB;QAslBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAvlB6B,SAulBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAxlBhB,OA0nBO,W;O;KAhoBX,C;kBASA,yB;MAAA,+D;MA0nBA,gD;MA1nBA,uC;QAMW,kBAAU,gB;QAwlBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAzlB6B,SAylBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA1lBhB,OA4nBO,W;O;KAloBX,C;kBASA,yB;MAAA,+D;MA4nBA,gD;MA5nBA,uC;QAMW,kBAAU,gB;QA0lBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA3lB6B,SA2lBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA5lBhB,OA8nBO,W;O;KApoBX,C;kBASA,yB;MAAA,+D;MA8nBA,gD;MA9nBA,uC;QAMW,kBAAU,gB;QA4lBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA7lB6B,SA6lBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA9lBhB,OAgoBO,W;O;KAtoBX,C;kBASA,yB;MAAA,+D;MAgoBA,gD;MAhoBA,uC;QAMW,kBAAU,gB;QA8lBD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA/lB6B,SA+lBblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAhmBhB,OAkoBO,W;O;KAxoBX,C;kBASA,yB;MAAA,+D;MAkoBA,gD;MAloBA,uC;QAMW,kBAAU,gB;QAglB

UACI,WAAW,WAAU,cAAV,EAAU,sBAAV,WAAmB,OAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEh
B,OAAO,W;O;KAfX,C;wGAkBA,yB;MAAA,gD;MAAA,oD;QAWoB,UACS,M;QAFzB,YAAY,C;QACZ,wBAA
gB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,WAAW,WAAU,cAAV,EAAU,sBAAV,WAAmB,OAAnB,C;UA
CC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KAfX,C;wGAkBA,yB;MAAA,gD;MAAA,oD;QAWoB,
UACS,M;QAFzB,YAAY,C;QACZ,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,WAAW,WAAU,cAA
V,EAAU,sBAAV,WAAmB,OAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KAfX,C;wG
AkBA,yB;MAAA,oC;MAAA,gD;MAAA,gC;MAAA,oD;QAWoB,UACS,M;QAFzB,YAAY,C;QACZ,wBAAgB,S
AAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UACI,WAAW,WAAU,cAAV,EAAU,sBAAV,WAAmB,oBAAnB,
C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KAfX,C;wGAkBA,yB;MAAA,gD;MAAA,oD;QA
WoB,UACS,M;QAFzB,YAAY,C;QACZ,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,WAAW,WAAU,
cAAV,EAAU,sBAAV,WAAmB,OAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KAfX,C;
uFAkBA,yB;MAAA,gD;MAAA,oD;QAIoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,W
AAW,UAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KARX,C;0FAWA,yB;MAA
A,gD;MAAA,oD;QAIoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,WAAW,UAAU,OAA
V,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KARX,C;0FAWA,yB;MAAA,gD;MAAA,oD;Q
AIoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,WAAW,UAAU,OAAV,C;UACC,OAAZ,
WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KARX,C;0FAWA,yB;MAAA,gD;MAAA,oD;QAIoB,Q;QAAhB,w
BAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,WAAW,UAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IA
AP,C;;QAEhB,OAAO,W;O;KARX,C;0FAWA,yB;MAAA,gD;MAAA,oD;QAIoB,Q;QAAhB,wBAAgB,SAAhB,g
B;UAAgB,cAAA,SAAhB,M;UACI,WAAW,UAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OA
AO,W;O;KARX,C;0FAWA,yB;MAAA,gD;MAAA,oD;QAIoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,S
AAhB,M;UACI,WAAW,UAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KARX,C;
0FAWA,yB;MAAA,gD;MAAA,oD;QAIoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,W
AAW,UAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KARX,C;0FAWA,yB;MAA
A,gD;MAAA,oD;QAIoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,WAAW,UAAU,OAA
V,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KARX,C;0FAWA,yB;MAAA,oC;MAAA,gD;M
AAA,gC;MAAA,oD;QAIoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UACI,WAAW,
UAAU,oBAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KARX,C;0FAWA,yB;MAAA,gD;
MAAA,oD;QAQoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,WAAW,UAAU,OAAV,C;
UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KAZX,C;oFAeA,yB;MAAA,wE;MAiOA,+D;MAjO
A,yC;QASW,kBAAU,oB;QAiOD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAlOiD,WAkOvC,CAAY,OAAZ,C;UO
p5UP,U;UADP,YPs5Ue,WOt5UH,WPs5UwB,GOt5UxB,C;UACL,IAAI,aAAJ,C;YACH,aPo5UuC,gB;YAA5B,W
On5UX,aPm5UgC,GOn5UhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPg5UA,iB;UACA,IAAK,WAAI,OAAJ,C;;Q
ApOT,OAsOO,W;O;KA/OX,C;sFAYA,yB;MAAA,wE;MAsOA,+D;MAtOA,yC;QASW,kBAAU,oB;QAsOD,Q;Q
AAhB,iD;UAAgB,cAAhB,e;UACI,UAvOoD,WAuO1C,CAAY,OAAZ,C;UOr6UP,U;UADP,YPu6Ue,WOv6UH,W
Pu6UwB,GOv6UxB,C;UACL,IAAI,aAAJ,C;YACH,aPq6UuC,gB;YAA5B,WOp6UX,aPo6UgC,GOp6UhC,EAAS,
MAAT,C;YACA,e;;YAEA,c;;UPi6UA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAzOT,OA2OO,W;O;KApPX,C;sFAY
A,yB;MAAA,wE;MA2OA,+D;MA3OA,yC;QASW,kBAAU,oB;QA2OD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,U
A5OqD,WA4O3C,CAAY,OAAZ,C;UOt7UP,U;UADP,YPw7Ue,WOx7UH,WPw7UwB,GOx7UxB,C;UACL,IAAI,
aAAJ,C;YACH,aPs7UuC,gB;YAA5B,WOr7UX,aPq7UgC,GOr7UhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPk7U
A,iB;UACA,IAAK,WAAI,OAAJ,C;;QA9OT,OAgPO,W;O;KAzPX,C;sFAYA,yB;MAAA,wE;MAgPA,+D;MAhP
A,yC;QASW,kBAAU,oB;QAgPD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAjPmD,WAiPzC,CAAY,OAAZ,C;UO
v8UP,U;UADP,YPy8Ue,WOz8UH,WPy8UwB,GOz8UxB,C;UACL,IAAI,aAAJ,C;YACH,aPu8UuC,gB;YAA5B,
WOt8UX,aPs8UgC,GOt8UhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPm8UA,iB;UACA,IAAK,WAAI,OAAJ,C;;Q
AnPT,OAqPO,W;O;KA9PX,C;sFAYA,yB;MAAA,wE;MAqPA,+D;MArPA,yC;QASW,kBAAU,oB;QAqPD,Q;QA
AhB,iD;UAAgB,cAAhB,e;UACI,UAtPoD,WAsP1C,CAAY,OAAZ,C;UOx9UP,U;UADP,YP09Ue,WO19UH,WP0
9UwB,GO19UxB,C;UACL,IAAI,aAAJ,C;YACH,aPw9UuC,gB;YAA5B,WOv9UX,aPu9UgC,GOv9UhC,EAAS,M
AAT,C;YACA,e;;YAEA,c;;UPo9UA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAxPT,OA0PO,W;O;KAnQX,C;sFAYA,

yB;MAAA,wE;MA0PA,+D;MA1PA,yC;QASW,kBAAU,oB;QA0PD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UA3PqD,WA2P3C,CAAY,OAAZ,C;UOz+UP,U;UADP,YP2+Ue,WO3+UH,WP2+UwB,GO3+UxB,C;UACL,IAAI,aAAJ,C;YACH,aPy+UuC,gB;YAA5B,WOx+UX,aPw+UgC,GOx+UhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPq+UA,iB;UACA,IAAK,WAAI,OAAJ,C;;QA7PT,OA+PO,W;O;KAxQX,C;sFAYA,yB;MAAA,wE;MA+PA,+D;MA/PA,yC;QASW,kBAAU,oB;QA+PD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAhQsD,WAgQ5C,CAAY,OAAZ,C;UO1/UP,U;UADP,YP4/Ue,WO5/UH,WP4/UwB,GO5/UxB,C;UACL,IAAI,aAAJ,C;YACH,aP0/UuC,gB;YAA5B,WOz/UX,aPy/UgC,GOz/UhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPs/UA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAlQT,OAoQO,W;O;KA7QX,C;sFAYA,yB;MAAA,wE;MAoQA,+D;MApQA,yC;QASW,kBAAU,oB;QAoQD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UArQ6D,WAqQnD,CAAY,OAAZ,C;UO3gVP,U;UADP,YP6gVe,WO7gVH,WP6gVwB,GO7gVxB,C;UACL,IAAI,aAAJ,C;YACH,aP2gVuC,gB;YAA5B,WO1gVX,aP0gVgC,GO1gVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPugVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAvQT,OAyQO,W;O;KAlRX,C;sFAYA,yB;MAAA,wE;MAyQA,+D;MAzQA,yC;QASW,kBAAU,oB;QAyQD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UA1QyE,WA0Q/D,CAAY,OAAZ,C;UO5hVP,U;UADP,YP8hVe,WO9hVH,WP8hVwB,GO9hVxB,C;UACL,IAAI,aAAJ,C;YACH,aP4hVuC,gB;YAA5B,WO3hVX,aP2hVgC,GO3hVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPwhVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QA5QT,OA8QO,W;O;KAvRX,C;sFAYA,yB;MAAA,wE;MA8QA,+D;MA9QA,yC;QASW,kBAAU,oB;QA8QD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UA/QqF,WA+Q3E,CAAY,OAAZ,C;UO7iVP,U;UADP,YP+iVe,WO/iVH,WP+iVwB,GO/iVxB,C;UACL,IAAI,aAAJ,C;YACH,aP6iVuC,gB;YAA5B,WO5iVX,aP4iVgC,GO5iVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPyiVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAjRT,OAmRO,W;O;KA5RX,C;sFAYA,yB;MAAA,wE;MAmRA,+D;MAnRA,yC;QASW,kBAAU,oB;QAmRD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UApRiH,WAoRvG,CAAY,OAAZ,C;UO9jVP,U;UADP,YPgkVe,WOhkVH,WPgkVwB,GOhkVxB,C;UACL,IAAI,aAAJ,C;YACH,aP8jVuC,gB;YAA5B,WO7jVX,aP6jVgC,GO7jVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP0jVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAtRT,OAwRO,W;O;KAjSX,C;sFAYA,yB;MAAA,wE;MAwRA,+D;MAxRA,yC;QASW,kBAAU,oB;QAwRD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAzRqI,WAyR3H,CAAY,OAAZ,C;UOlmVP,U;UADP,YPomVe,WOpmVH,WPomVwB,GOpmVxB,C;UACL,IAAI,aAAJ,C;YACH,aPkmVuC,gB;YAA5B,WOjmVX,aPimVgC,GOjmVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP8lVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QA1RT,OA4RO,W;O;KArSX,C;sFAYA,yB;MAAA,wE;MA4RA,+D;MA5RA,yC;QASW,kBAAU,oB;QA4RD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UA7RyJ,WA6R/I,CAAY,OAAZ,C;UOnnVP,U;UADP,YPqnVe,WOrnVH,WPqnVwB,GOrnVxB,C;UACL,IAAI,aAAJ,C;YACH,aPmnVuC,gB;YAA5B,WOlnVX,aPknVgC,GOlnVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP+mVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QA9RT,OAgSO,W;O;KAzSX,C;sFAYA,yB;MAAA,wE;MAgSA,+D;MAhSA,yC;QASW,kBAAU,oB;QAgSD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAjSsK,WAiS5J,CAAY,OAAZ,C;UOpoVP,U;UADP,YPsoVe,WOtoVH,WPsoVwB,GOtoVxB,C;UACL,IAAI,aAAJ,C;YACH,aPooVuC,gB;YAA5B,WOnoVX,aPmoVgC,GOnoVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPgoVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAlST,OAoSO,W;O;KA7SX,C;sFAYA,yB;MAAA,wE;MAoSA,+D;MApSA,yC;QASW,kBAAU,oB;QAoSD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UArS0L,WAqShL,CAAY,OAAZ,C;UOrpVP,U;UADP,YPupVe,WOvpVH,WPupVwB,GOvpVxB,C;UACL,IAAI,aAAJ,C;YACH,aPqpVuC,gB;YAA5B,WOppVX,aPopVgC,GOppVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPipVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAtST,OAwSO,W;O;KAjTX,C;sFAYA,yB;MAAA,wE;MAwSA,+D;MAxSA,yC;QASW,kBAAU,oB;QAwSD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAzS2M,WAySjM,CAAY,OAAZ,C;UOtqVP,U;UADP,YPwqVe,WOxqVH,WPwqVwB,GOxqVxB,C;UACL,IAAI,aAAJ,C;YACH,aPsqVuC,gB;YAA5B,WOrqVX,aPqqVgC,GOrqVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPkqVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QA1ST,OA4SO,W;O;KArTX,C;sFAYA,yB;MAAA,wE;MA4SA,+D;MA5SA,yC;QASW,kBAAU,oB;QA4SD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UA7S4N,WA6SlN,CAAY,OAAZ,C;UOvrVP,U;UADP,YPyrVe,WOzrVH,WPyrVwB,GOzrVxB,C;UACL,IAAI,aAAJ,C;YACH,aPurVuC,gB;YAA5B,WOtrVX,aPsrVgC,GOtrVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPmrVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QA9ST,OAgTO,W;O;KAzTX,C;sFAYA,yB;MAAA,wE;MAgTA,+D;MAhTA,yC;QASW,kBAAU,oB;QAgTD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAjTqP,WAiT3O,CAAY,OAAZ,C;UOxsVP,U;UADP,YP0sVe,WO1sVH,WP0sVwB,GO1sVxB,C;UACL,IAAI,aAAJ,C;YACH,aPwsVuC,gB;YAA5B,WOvsVX,aPusVgC,GOvsVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPosVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAlTT,OAoTO,W;O;KA7TX,C;sFAYA,yB;MAAA,wE;MAoTA,+D;MApTA,yC;QASW,kBAAU,oB;QAoTD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UArTsQ,WAqT5P,CAAY,OAAZ,C;UOztVP,U;UADP,YP2tVe,WO3tVH,WP2tVwB,GO3tVxB,C;UACL,IAAI,aAAJ,C;YACH,aPytVuC,gB;YAA5B,WOxtVX,aPwtVgC,GOxtVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPqtVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAtTT,OAwTO,W;O;KAjUX,C;sFAYA,yB;MAAA,wE;MAwTA,+D;MAxTA,yC;QASW,kBAAU,oB;QAwTD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAzTuR,WAyT7Q,CAAY,OAAZ,C;UO1uVP,U;UADP,YP4uVe,WO5uVH,WP4uVwB,GO5uVxB,C;UACL,IAAI,aAAJ,C;YACH,aP0uVuC,gB;YAA5B,WOzuVX,aPyuVgC,GOzuVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPsuVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QA1TT,OA4TO,W;O;KArUX,C;sFAYA,yB;MAAA,wE;MA4TA,+D;MA5TA,yC;QASW,kBAAU,oB;QA4TD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UA7TwS,WA6T9R,CAAY,OAAZ,C;UO3vVP,U;UADP,YP6vVe,WO7vVH,WP6vVwB,GO7vVxB,C;UACL,IAAI,aAAJ,C;YACH,aP2vVuC,gB;YAA5B,WO1vVX,aP0vVgC,GO1vVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPuvVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QA9TT,OAgUO,W;O;KAzUX,C;sFAYA,yB;MAAA,wE;MAgUA,+D;MAhUA,yC;QASW,kBAAU,oB;QAgUD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAjUyT,WAiU/S,CAAY,OAAZ,C;UO5wVP,U;UADP,YP8wVe,WO9wVH,WP8wVwB,GO9wVxB,C;UACL,IAAI,aAAJ,C;YACH,aP4wVuC,gB;YAA5B,WO3wVX,aP2wVgC,GO3wVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPwwVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAlUT,OAoUO,W;O;KA7UX,C;sFAYA,yB;MAAA,wE;MAoUA,+D;MApUA,yC;QASW,kBAAU,oB;QAoUD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UArUuU,WAqU7T,CAAY,OAAZ,C;UO7xVP,U;UADP,YP+xVe,WO/xVH,WP+xVwB,GO/xVxB,C;UACL,IAAI,aAAJ,C;YACH,aP6xVuC,gB;YAA5B,WO5xVX,aP4xVgC,GO5xVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPyxVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAtUT,OAwUO,W;O;KAjVX,C;sFAYA,yB;MAAA,wE;MAwUA,+D;MAxUA,yC;QASW,kBAAU,oB;QAwUD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAzUwV,WAyU9U,CAAY,OAAZ,C;UO9yVP,U;UADP,YPgzVe,WOhzVH,WPgzVwB,GOhzVxB,C;UACL,IAAI,aAAJ,C;YACH,aP8yVuC,gB;YAA5B,WO7yVX,aP6yVgC,GO7yVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP0yVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QA1UT,OA4UO,W;O;KArVX,C;sFAYA,yB;MAAA,wE;MA4UA,+D;MA5UA,yC;QASW,kBAAU,oB;QA4UD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UA7UwW,WA6U9V,CAAY,OAAZ,C;UO/zVP,U;UADP,YPi0Ve,WOj0VH,WPi0VwB,GOj0VxB,C;UACL,IAAI,aAAJ,C;YACH,aP+zVuC,gB;YAA5B,WO9zVX,aP8zVgC,GO9zVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP2zVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QA9UT,OAgVO,W;O;KAzVX,C;sFAYA,yB;MAAA,wE;MAgVA,+D;MAhVA,yC;QASW,kBAAU,oB;QAgVD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAjVwX,WAiV9W,CAAY,OAAZ,C;UOh1VP,U;UADP,YPk1Ve,WOl1VH,WPk1VwB,GOl1VxB,C;UACL,IAAI,aAAJ,C;YACH,aPg1VuC,gB;YAA5B,WO/0VX,aP+0VgC,GO/0VhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP40VA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAlVT,OAoVO,W;O;KA7VX,C;sFAYA,yB;MAAA,wE;MAoVA,+D;MApVA,yC;QASW,kBAAU,oB;QAoVD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UArVwY,WAqV9X,CAAY,OAAZ,C;UOj2VP,U;UADP,YPm2Ve,WOn2VH,WPm2VwB,GOn2VxB,C;UACL,IAAI,aAAJ,C;YACH,aPi2VuC,gB;YAA5B,WOh2VX,aPg2VgC,GOh2VhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP62VA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAtVT,OAwVO,W;O;KAjWX,C;sFAYA,yB;MAAA,wE;MAwVA,+D;MAxVA,yC;QASW,kBAAU,oB;QAwVD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAzVwZ,WAyV9Y,CAAY,OAAZ,C;UOl3VP,U;UADP,YPo3Ve,WOp3VH,WPo3VwB,GOp3VxB,C;UACL,IAAI,aAAJ,C;YACH,aPk3VuC,gB;YAA5B,WOj3VX,aPi3VgC,GOj3VhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP83VA,iB;UACA,IAAK,WAAI,OAAJ,C;;QA1VT,OA4VO,W;O;KArWX,C;sFAYA,yB;MAAA,wE;MA4VA,+D;MA5VA,yC;QASW,kBAAU,oB;QA4VD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UA7Vwa,WA6V9Z,CAAY,OAAZ,C;UOn4VP,U;UADP,YPq4Ve,WOr4VH,WPq4VwB,GOr4VxB,C;UACL,IAAI,aAAJ,C;YACH,aPm4VuC,gB;YAA5B,WOl4VX,aPk4VgC,GOl4VhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP+4VA,iB;UACA,IAAK,WAAI,OAAJ,C;;QA9VT,OAgWO,W;O;KAzWX,C;sFAYA,yB;MAAA,wE;MAgWA,+D;MAhWA,yC;QASW,kBAAU,oB;QAgWD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAjWwb,WAiW9a,CAAY,OAAZ,C;UOp5VP,U;UADP,YPs5Ve,WOt5VH,WPs5VwB,GOt5VxB,C;UACL,IAAI,aAAJ,C;YACH,aPo5VuC,gB;YAA5B,WOn5VX,aPm5VgC,GOn5VhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPg5VA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAlWT,OAoWO,W;O;KA7WX,C;sFAYA,yB;MAAA,wE;MAoWA,+D;MApWA,yC;QASW,kBAAU,oB;QAoWD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UArWwc,WAqW9b,CAAY,OAAZ,C;UOr6VP,U;UADP,YPu6Ve,WOv6VH,WPu6VwB,GOv6VxB,C;UACL,IAAI,aAAJ,C;YACH,aPq6VuC,gB;YAA5B,WOp6VX,aPo6VgC,GOp6VhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPi6VA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAtWT,OAwWO,W;O;KAjXX,C;sFAYA,yB;MAAA,wE;MAwWA,+D;MAxWA,yC;QASW,kBAAU,oB;QAwWD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAzWwd,WAyW9c,CAAY,OAAZ,C;UOt7VP,U;UADP,YPw7Ve,WOx7VH,WPw7VwB,GOx7VxB,C;UACL,IAAI,aAAJ,C;YACH,aPs7VuC,gB;YAA5B,WOr7VX,aPq7VgC,GOr7VhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPk7VA,iB;UACA,IAAK,WAAI,OAAJ,C;;QA1WT,OA4WO,W;O;KArXX,C;sFAYA,yB;MAAA,wE;MA4WA,+D;MA5WA,yC;QASW,kBAAU,oB;QA4WD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UA7WwgB,WA6W9f,CAAY,OAAZ,C;UOv8VP,U;UADP,YPy8Ve,WOz8VH,WPy8VwB,GOz8VxB,C;UACL,IAAI,aAAJ,C;YACH,aPu8VuC,gB;YAA5B,WOt8VX,aPs8VgC,GOt8VhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPm8VA,iB;UACA,IAAK,WAAI,OAAJ,C;;QA9WT,OAgXO,W;O;KAzXX,C;sFAYA,yB;MAAA,wE;MAgXA,+D;MAhXA,yC;QASW,kBAAU,oB;QAgXD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAjXwhB,WAiX9gB,CAAY,OAAZ,C;UOx9VP,U;UADP,YP09Ve,WO19VH,WP09VwB,GO19VxB,C;UACL,IAAI,aAAJ,C;YACH,aPw9VuC,gB;YAA5B,WOv9VX,aPu9VgC,GOv9VhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPo9VA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAlXT,OAoXO,W;O;KA7XX,C;sFAYA,yB;MAAA,wE;MAoXA,+D;MApXA,yC;QASW,kBAAU,oB;QAoXD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UArXwiB,WAqX9hB,CAAY,OAAZ,C;UOz+VP,U;UADP,YP2+Ve,WO3+VH,WP2+VwB,GO3+VxB,C;UACL,IAAI,aAAJ,C;YACH,aPy+VuC,gB;YAA5B,WOx+VX,aPw+VgC,GOx+VhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPq+VA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAtXT,OAwXO,W;O;KAjYX,C;sFAYA,yB;MAAA,wE;MAwXA,+D;MAxXA,yC;QASW,kBAAU,oB;QAwXD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAzXwkB,WAyX9jB,CAAY,OAAZ,C;UO1/VP,U;UADP,YP4/Ve,WO5/VH,WP4/VwB,GO5/VxB,C;UACL,IAAI,aAAJ,C;YACH,aP0/VuC,gB;YAA5B,WOz/VX,aPy/VgC,GOz/VhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPs/VA,iB;UACA,IAAK,WAAI,OAAJ,C;;QA1XT,OA4XO,W;O;KArYX,C;sFAYA,yB;MAAA,wE;MA4XA,+D;MA5XA,yC;QASW,kBAAU,oB;QA4XD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UA7XwmB,WA6X9lB,CAAY,OAAZ,C;UO3gWP,U;UADP,YP6gWe,WO7gWH,WP6gWwB,GO7gWxB,C;UACL,IAAI,aAAJ,C;YACH,aP2gWuC,gB;YAA5B,WO1gWX,aP0gWgC,GO1gWhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPugWA,iB;UACA,IAAK,WAAI,OAAJ,C;;QA9XT,OAgYO,W;O;KAzYX,C;sFAYA,yB;MAAA,wE;MAgYA,+D;MAhYA,yC;QASW,kBAAU,oB;QAgYD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAjYwoB,WAiY9nB,CAAY,OAAZ,C;UO5hWP,U;UADP,YP8hWe,WO9hWH,WP8hWwB,GO9hWxB,C;UACL,IAAI,aAAJ,C;YACH,aP4hWuC,gB;YAA5B,WO3hWX,aP2hWgC,GO3hWhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPwhWA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAlYT,OAoYO,W;O;KA7YX,C;sFAYA,yB;MAAA,wE;MAoYA,+D;MApYA,yC;QASW,kBAAU,oB;QAoYD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UArYwqB,WAqY9pB,CAAY,OAAZ,C;UOjjWP,U;UADP,YPmjWe,WOnjWH,WPmjWwB,GOnjWxB,C;UACL,IAAI,aAAJ,C;YACH,aPijWuC,gB;YAA5B,WOhjWX,aPgjWgC,GOhjWhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP6iWA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAtYT,OAwYO,W;O;KAjZX,C;sFAYA,yB;MAAA,wE;MAwYA,+D;MAxYA,yC;QASW,kBAAU,oB;QAwYD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAzYwsB,WAyY9rB,CAAY,OAAZ,C;UOlkWP,U;UADP,YPokWe,WOpkWH,WPokWwB,GOpkWxB,C;UACL,IAAI,aAAJ,C;YACH,aPkkWuC,gB;YAA5B,WOjkWX,aPikWgC,GOjkWhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP8jWA,iB;UACA,IAAK,WAAI,OAAJ,C;;QA1YT,OA4YO,W;O;KArZX,C;sFAYA,yB;MAAA,wE;MA4YA,+D;MA5YA,yC;QASW,kBAAU,oB;QA4YD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UA7YwuB,WA6Y9tB,CAAY,OAAZ,C;UOnlWP,U;UADP,YPqlWe,WOrlWH,WPqlWwB,GOrlWxB,C;UACL,IAAI,aAAJ,C;YACH,aPmlWuC,gB;YAA5B,WOllWX,aPklWgC,GOllWhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP+kWA,iB;UACA,IAAK,WAAI,OAAJ,C;;QA9YT,OAgZO,W;O;KAzZX,C;sFAYA,yB;MAAA,wE;MAgZA,+D;MAhZA,yC;QASW,kBAAU,oB;QAgZD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAjZwwB,WAiZ9vB,CAAY,OAAZ,C;UOpmWP,U;UADP,YPsmWe,WOtmWH,WPsmWwB,GOtmWxB,C;UACL,IAAI,aAAJ,C;YACH,aPomWuC,gB;YAA5B,WOnmWX,aPmmWgC,GOnmWhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPgmWA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAlZT,OAoZO,W;O;KA7ZX,C;sFAYA,yB;MAAA,wE;MAoZA,+D;MApZA,yC;QASW,kBAAU,oB;QAoZD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UArZwyB,WAqZ9xB,CAAY,OAAZ,C;UOnnWP,U;UADP,YPqnWe,WOrnWH,WPqnWwB,GOrnWxB,C;UACL,IAAI,aAAJ,C;YACH,aPmnWuC,gB;YAA5B,WOlnWX,aPknWgC,GOlnWhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP+mWA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAtZT,OAwZO,W;O;KAjaX,C;sFAYA,yB;MAAA,wE;MAwZA,+D;MAxZA,yC;QASW,kBAAU,oB;QAwZD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAzZw0B,WAyZ9zB,CAAY,OAAZ,C;UOpoWP,U;UADP,YPsoWe,WOtoWH,WPsoWwB,GOtoWxB,C;UACL,IAAI,aAAJ,C;YACH,aPooWuC,gB;YAA5B,WOnoWX,aPmoWgC,GOnoWhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPgoWA,iB;UACA,IAAK,WAAI,OAAJ,C;;QA1ZT,OA4ZO,W;O;KArajX,C;sFAYA,yB;MAAA,wE;MA4ZA,+D;MA5ZA,yC;QASW,kBAAU,oB;QA4ZD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UA7Z22B,WA6Zj2B,CAAY,OAAZ,C;UOppWP,U;UADP,YPspWe,WOtpWH,WPspWwB,GOtpWxB,C;UACL,IAAI,aAAJ,C;YACH,aPopWuC,gB;YAA5B,WOnpWX,aPmpWgC,GOnpWhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPgpWA,iB;UACA,IAAK,WAAI,OAAJ,C;;QA9ZT,OAgaO,W;O;KAzajX,C;sFAYA,yB;MAAA,wE;MAgaA,+D;MAhaA,yC;QASW,kBAAU,oB;QAgaD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAja43B,WAia33B,CAAY,OAAZ,C;UOrqWP,U;UADP,YPuqWe,WOvqWH,WPuqWwB,GOvqWxB,C;UACL,IAAI,aAAJ,C;YACH,aPqqWuC,gB;YAA5B,WOpqWX,aPoqWgC,GOpqWhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPiqWA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAlaT,OAoaO,W;O;KA7ajX,C;sFAYA,yB;MAAA,wE;MAoaA,+D;MApaA,yC;QASW,kBAAU,oB;QAoaD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAra64B,WAqan4B,CAAY,OAAZ,C;UOtrWP,U;UADP,YPwrWe,WOxrWH,WPwrWwB,GOxrWxB,C;UACL,IAAI,aAAJ,C;YACH,aPsrWuC,gB;YAA5B,WOrrWX,aPqrWgC,GOrrWhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPkrWA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAtaT,OAwaO,W;O;KAjbjX,C;sFAYA,yB;MAAA,wE;MAwaA,+D;MAxaA,yC;QASW,kBAAU,oB;QAwaD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAza85B,WAya55B,CAAY,OAAZ,C;UOvsWP,U;UADP,YPysWe,WOzsWH,WPysWwB,GOzsWxB,C;UACL,IAAI,aAAJ,C;YACH,aPusWuC,gB;YAA5B,WOtsWX,aPssWgC,GOtsWhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPmsWA,iB;UACA,IAAK,WAAI,OAAJ,C;;QA1aT,OA4aO,W;O;KArbjX,C;sFAYA,yB;MAAA,wE;MA4aA,+D;MA5aA,yC;QASW,kBAAU,oB;QA4aD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UA7a+7B,WA6ar7B,CAAY,OAAZ,C;UOxtWP,U;UADP,YP0tWe,WO1tWH,WP0tWwB,GO1tWxB,C;UACL,IAAI,aAAJ,C;YACH,aPwtWuC,gB;YAA5B,WOvtWX,aPutWgC,GOvtWhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPotWA,iB;UACA,IAAK,WAAI,OAAJ,C;;QA9aT,OAgbO,W;O;KAzbjX,C;sFAYA,yB;MAAA,wE;MAgbA,+D;MAhbA,yC;QASW,kBAAU,oB;QAgbD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAjbg+B,WAib99B,CAAY,OAAZ,C;UOzuWP,U;UADP,YP2uWe,WO3uWH,WP2uWwB,GO3uWxB,C;UACL,IAAI,aAAJ,C;YACH,aPyuWuC,gB;YAA5B,WOxuWX,aPwuWgC,GOxuWhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPquWA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAlbT,OAobO,W;O;KA7bjX,C;sFAYA,yB;MAAA,wE;MAobA,+D;MApbA,yC;QASW,kBAAU,oB;QAobD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UArbi/B,WAqb//B,CAAY,OAAZ,C;UO1vWP,U;UADP,YP4vWe,WO5vWH,WP4vWwB,GO5vWxB,C;UACL,IAAI,aAAJ,C;YACH,aP0vWuC,gB;YAA5B,WOzvWX,aPyvWgC,GOzvWhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPsvWA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAtbT,OAwbO,W;O;KAjcjX,C;sFAYA,yB;MAAA,wE;MAwbA,+D;MAxbA,yC;QASW,kBAAU,oB;QAwbD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAzbkhC,WAybhhC,CAAY,OAAZ,C;UO3wWP,U;UADP,YP6wWe,WO7wWH,WP6wWwB,GO7wWxB,C;UACL,IAAI,aAAJ,C;YACH,aP2wWuC,gB;YAA5B,WO1wWX,aP0wWgC,GO1wWhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPuwWA,iB;UACA,IAAK,WAAI,OAAJ,C;;QA1bT,OA4bO,W;O;KArcjX,C;sFAYA,yB;MAAA,wE;MA4bA,+D;MA5bA,yC;QASW,kBAAU,oB;QA4bD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UA7bmiC,WA6bjiC,CAAY,OAAZ,C;UO5xWP,U;UADP,YP8xWe,WO9xWH,WP8xWwB,GO9xWxB,C;UACL,IAAI,aAAJ,C;YACH,aP4xWuC,gB;YAA5B,WO3xWX,aP2xWgC,GO3xWhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPwxWA,iB;UACA,IAAK,WAAI,OAAJ,C;;QA9bT,OAgcO,W;O;KAzcjX,C;sFAYA,yB;MAAA,wE;MAgcA,+D;MAhcA,yC;QASW,kBAAU,oB;QAgcD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAjcokC,WAicllC,CAAY,OAAZ,C;UO7yWP,U;UADP,YP+yWe,WO/yWH,WP+yWwB,GO/yWxB,C;UACL,IAAI,aAAJ,C;YACH,aP6yWuC,gB;YAA5B,WO5yWX,aP4yWgC,GO5yWhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPyyWA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAlcT,OAocO,W;O;KA7cjX,C;sFAYA,yB;MAAA,wE;MAocA,+D;MApcA,yC;QASW,kBAAU,oB;QAocD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UArcqmC,WAqcnmC,CAAY,OAAZ,C;UO9zWP,U;UADP,YPg0We,WOh0WH,WPg0WwB,GOh0WxB,C;UACL,IAAI,aAAJ,C;YACH,aP8zWuC,gB;YAA5B,WO7zWX,aP6zWgC,GO7zWhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP0zWA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAtcT,OAwcO,W;O;KAjdjX,C;sFAYA,yB;MAAA,wE;MAwcA,+D;MAxcA,yC;QASW,kBAAU,oB;QAwcD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAzcsoC,WAycpoC,CAAY,OAAZ,C;UO/0WP,U;UADP,YPi1We,WOj1WH,WPi1WwB,GOj1WxB,C;UACL,IAAI,aAAJ,C;YACH,aP+0WuC,gB;YAA5B,WO90WX,aP80WgC,GO90WhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP20WA,iB;UACA,IAAK,WAAI,OAAJ,C;;QA1cT,OA4cO,W;O;KArdjX,C;sFAYA,yB;MAAA,wE;MA4cA,+D;MA5cA,yC;QASW,kBAAU,oB;QA4cD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UA7cqqC,WA6cnqC,CAAY,OAAZ,C;UOh2WP,U;UADP,YPk2We,WOl2WH,WPk2WwB,GOl2WxB,C;UACL,IAAI,aAAJ,C;YACH,aPg2WuC,gB;YAA5B,WO/1WX,aP+1WgC,GO/1WhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP41WA,iB;UACA,IAAK,WAAI,OAAJ,C;;QA9cT,OAgdO,W;O;KAzdjX,C;sFAYA,yB;MAAA,wE;MAgdA,+D;MAhdA,yC;QASW,kBAAU,oB;QAgdD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAjdsrC,WAidprC,CAAY,OAAZ,C;UOj3WP,U;UADP,YPm3We,WOn3WH,WPm3WwB,GOn3WxB,C;UACL,IAAI,aAAJ,C;YACH,aPi3WuC,gB;YAA5B,WOh3WX,aPg3WgC,GOh3WhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP63WA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAldT,OAodO,W;O;KA7djX,C;sFAYA,yB;MAAA,wE;MAodA,+D;MApdA,yC;QASW,kBAAU,oB;QAodD,Q;QAAhB,iD;UA

ACL,IAAI,aAAJ,C;YACH,aP8rVuC,gB;YAA5B,WO7rVX,aP6rVgC,GO7rVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP0rVA,iB;UACA,IAAK,WAzTyD,cAyTrD,CAAe,oBAAf,CAAJ,C;;QAzTT,OA2TO,W;O;KArUX,C;wFAaA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOp5UP,U;UADP,YPs5Ue,WOt5UH,WPs5UwB,GOt5UxB,C;UACL,IAAI,aAAJ,C;YACH,aPo5UuC,gB;YAA5B,WOn5UX,aPm5UgC,GOn5UhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPg5UA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOr6UP,U;UADP,YPu6Ue,WOv6UH,WPu6UwB,GOv6UxB,C;UACL,IAAI,aAAJ,C;YACH,aPq6UuC,gB;YAA5B,WOp6UX,aPo6UgC,GOp6UhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPi6UA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOt7UP,U;UADP,YPw7Ue,WOx7UH,WPw7UwB,GOx7UxB,C;UACL,IAAI,aAAJ,C;YACH,aPs7UuC,gB;YAA5B,WOr7UX,aPq7UgC,GOr7UhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPk7UA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOv8UP,U;UADP,YPy8Ue,WOz8UH,WPy8UwB,GOz8UxB,C;UACL,IAAI,aAAJ,C;YACH,aPu8UuC,gB;YAA5B,WOt8UX,aPs8UgC,GOt8UhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPm8UA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOx9UP,U;UADP,YP09Ue,WO19UH,WP09UwB,GO19UxB,C;UACL,IAAI,aAAJ,C;YACH,aPw9UuC,gB;YAA5B,WOv9UX,aPu9UgC,GOv9UhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPo9UA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOz+UP,U;UADP,YP2+Ue,WO3+UH,WP2+UwB,GO3+UxB,C;UACL,IAAI,aAAJ,C;YACH,aPy+UuC,gB;YAA5B,WOx+UX,aPw+UgC,GOx+UhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPq+UA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UO1/UP,U;UADP,YP4/Ue,WO5/UH,WP4/UwB,GO5/UxB,C;UACL,IAAI,aAAJ,C;YACH,a,GAAuC,gB;YAA5B,WOz/UX,aPy/UgC,GOz/UhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPs/UA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UO3gVP,U;UADP,YP6gVe,WO7gVH,WP6gVwB,GO7gVxB,C;UACL,IAAI,aAAJ,C;YACH,aP2gVuC,gB;YAA5B,WO1gVX,aP0gVgC,GO1gVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPugVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UO5hVP,U;UADP,YP8hVe,WO9hVH,WP8hVwB,GO9hVxB,C;UACL,IAAI,aAAJ,C;YACH,aP4hVuC,gB;YAA5B,WO3hVX,aP2hVgC,GO3hVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPwhVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UO7iVP,U;UADP,YP+iVe,WO/iVH,WP+iVwB,GO/iVxB,C;UACL,IAAI,aAAJ,C;YACH,aP6iVuC,gB;YAA5B,WO5iVX,aP4iVgC,GO5iVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPyiVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UO9jVP,U;UADP,YPgkVe,WOhkVH,WPgkVwB,GOhkVxB,C;UACL,IAAI,aAAJ,C;YACH,a,GAAuC,gB;YAA5B,WO7jVX,aP6jVgC,GO7jVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP0jVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UO/kVP,U;UADP,YPilVe,WOjlVH,WPilVwB,GOjlVxB,C;UACL,IAAI,aAAJ,C;YACH,aP+kVuC,gB;YAA5B,WO9kVX,aP8kVgC,GO9kVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP2kVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOhmVP,U;UADP,YPkmVe,WOlmVH,WPkmVwB,GOlmVxB,C;UACL,IAAI,aAAJ,C;YACH,aPgmVuC,gB;YAA5B,WO/lVX,aP+lVgC,GO/lVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP4lVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOjnVP,U;UADP,YPmnVe,WOnnVH,WPmnVwB,GOnnVxB,C;UACL,IAAI,aAAJ,C;YACH,aPinVuC,gB;YAA5B,WOhnVX,aPgnVgC,GOhnVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP6mVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOloVP,U;UADP,YPooVe,WOpoVH,WPooVwB,GOpoVxB,C;UACL,IAAI,aAAJ,C;YACH,aPkoVuC,gB;YAA5B,WOjoVX,aPioVgC,GOjoVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP8nVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOnpVP,U;UADP,YPqpVe,WOrpVH,WPqpVwB,GOrpVxB,C;UACL,IAAI,aAAJ,C;YACH,aPmpVuC,gB;YAA5B,WOlpVX,aPkpVgC,GOlpVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP+oVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOpqVP,U;UADP,YPsqVe,WOtqVH,WPsqVwB,GOtqVxB,C;UACL,IAAI,aAAJ,C;YACH,aPoqVuC,gB;YAA5B,WOnqVX,aPmqVgC,GOnqVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPgqVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOrrVP,U;UADP,YPurVe,WOvrVH,WPurVwB,GOvrVxB,C;UACL,IAAI,aAAJ,C;YACH,aPqrVuC,gB;YAA5B,WOprVX,aPorVgC,GOprVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPirVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOtsVP,U;UADP,YPwsVe,WOxsVH,WPwsVwB,GOxsVxB,C;UACL,IAAI,aAAJ,C;YACH,aPssVuC,gB;YAA5B,WOrsVX,aPqsVgC,GOrsVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPksVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOvtVP,U;UADP,YPytVe,WOztVH,WPytVwB,GOztVxB,C;UACL,IAAI,aAAJ,C;YACH,aPutVuC,gB;YAA5B,WOttVX,aPstVgC,GOttVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPmtVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOxuVP,U;UADP,YP0uVe,WO1uVH,WP0uVwB,GO1uVxB,C;UACL,IAAI,aAAJ,C;YACH,aPwuVuC,gB;YAA5B,WOvuVX,aPuuVgC,GOvuVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPouVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOzvVP,U;UADP,YP2vVe,WO3vVH,WP2vVwB,GO3vVxB,C;UACL,IAAI,aAAJ,C;YACH,aPyvVuC,gB;YAA5B,WOxvVX,aPwvVgC,GOxvVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPqvVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UO1wVP,U;UADP,YP4wVe,WO5wVH,WP4wVwB,GO5wVxB,C;UACL,IAAI,aAAJ,C;YACH,a,GAAuC,gB;YAA5B,WOzwVX,aPywVgC,GOzwVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPswVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UO3xVP,U;UADP,YP6xVe,WO7xVH,WP6xVwB,GO7xVxB,C;UACL,IAAI,aAAJ,C;YACH,aP2xVuC,gB;YAA5B,WO1xVX,aP0xVgC,GO1xVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPuxVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UO5yVP,U;UADP,YP8yVe,WO9yVH,WP8yVwB,GO9yVxB,C;UACL,IAAI,aAAJ,C;YACH,aP4yVuC,gB;YAA5B,WO3yVX,aP2yVgC,GO3yVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPwyVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UO7zVP,U;UADP,YP+zVe,WO/zVH,WP+zVwB,GO/zVxB,C;UACL,IAAI,aAAJ,C;YACH,aP6zVuC,gB;YAA5B,WO5zVX,aP4zVgC,GO5zVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPyzVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UO90VP,U;UADP,YPg1Ve,WOh1VH,WPg1VwB,GOh1VxB,C;UACL,IAAI,aAAJ,C;YACH,a,GAAuC,gB;YAA5B,WO70VX,aP60VgC,GO70VhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP00VA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UO/1VP,U;UADP,YPi2Ve,WOj2VH,WPi2VwB,GOj2VxB,C;UACL,IAAI,aAAJ,C;YACH,aP+1VuC,gB;YAA5B,WO91VX,aP81VgC,GO91VhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP21VA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOh3VP,U;UADP,YPk3Ve,WOl3VH,WPk3VwB,GOl3VxB,C;UACL,IAAI,aAAJ,C;YACH,aPg3VuC,gB;YAA5B,WO/2VX,aP+2VgC,GO/2VhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP42VA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOj4VP,U;UADP,YPm4Ve,WOn4VH,WPm4VwB,GOn4VxB,C;UACL,IAAI,aAAJ,C;YACH,aPi4VuC,gB;YAA5B,WOh4VX,aPg4VgC,GOh4VhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP64VA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOl5VP,U;UADP,YPo5Ve,WOp5VH,WPo5VwB,GOp5VxB,C;UACL,IAAI,aAAJ,C;YACH,aPk5VuC,gB;YAA5B,WOj5VX,aPi5VgC,GOj5VhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP85VA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOn6VP,U;UADP,YPq6Ve,WOr6VH,WPq6VwB,GOr6VxB,C;UACL,IAAI,aAAJ,C;YACH,aPm6VuC,gB;YAA5B,WOl6VX,aPk6VgC,GOl6VhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP+5VA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOp7VP,U;UADP,YPs7Ve,WOt7VH,WPs7VwB,GOt7VxB,C;UACL,IAAI,aAAJ,C;YACH,aPo7VuC,gB;YAA5B,WOn7VX,aPm7VgC,GOn7VhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPg7VA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOr8VP,U;UADP,YPu8Ve,WOv8VH,WPu8VwB,GOv8VxB,C;UACL,IAAI,aAAJ,C;YACH,aPq8VuC,gB;YAA5B,WOp8VX,aPo8VgC,GOp8VhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPi8VA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOt9VP,U;UADP,YPw9Ve,WOx9VH,WPw9VwB,GOx9VxB,C;UACL,IAAI,aAAJ,C;YACH,aPs9VuC,gB;YAA5B,WOr9VX,aPq9VgC,GOr9VhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPk9VA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOv+VP,U;UADP,YPy+Ve,WOz+VH,WPy+VwB,GOz+VxB,C;UACL,IAAI,aAAJ,C;YACH,aPu+VuC,gB;YAA5B,WOt+VX,aPs+VgC,GOt+VhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPm+VA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOx/VP,U;UADP,YP0/Ve,WO1/VH,WP0/VwB,GO1/VxB,C;UACL,IAAI,aAAJ,C;YACH,aPw/VuC,gB;YAA5B,WOv/VX,aPu/VgC,GOv/VhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPo/VA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOzgWP,U;UADP,YP2gWe,WO3gWH,WP2gWwB,GO3gWxB,C;UACL,IAAI,aAAJ,C;YACH,aPygWuC,gB;YAA5B,WOxgWX,aPwgWgC,GOxgWhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPqgWA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UO1hWP,U;UADP,YP4hWe,WO5hWH,WP4hWwB,GO5hWxB,C;UACL,IAAI,aAAJ,C;YACH,aP0hWuC,gB;YAA5B,WOzhWX,aPyhWgC,GOzhWhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPshWA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UO3iWP,U;UADP,YP6iWe,WO7iWH,WP6iWwB,GO7iWxB,C;UACL,IAAI,aAAJ,C;YACH,aP2iWuC,gB;YAA5B,WO1iWX,aP0iWgC,GO1iWhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPuiWA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UO5jWP,U;UADP,YP8jWe,WO9jWH,WP8jWwB,GO9jWxB,C;UACL,IAAI,aAAJ,C;YACH,aP4jWuC,gB;YAA5B,WO3jWX,aP2jWgC,GO3jWhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPwjWA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UO7kWP,U;UADP,YP+kWe,WO/kWH,WP+kWwB,GO/kWxB,C;UACL,IAAI,aAAJ,C;YACH,aP6kWuC,gB;YAA5B,WO5kWX,aP4kWgC,GO5kWhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPykWA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UO9lWP,U;UADP,YPgmWe,WOhmWH,WPgmWwB,GOhmWxB,C;UACL,IAAI,aAAJ,C;YACH,aP8lWuC,gB;YAA5B,WO7lWX,aP6lWgC,GO7lWhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP0lWA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOnnWP,U;UADP,YPqnWe,WOrnWH,WPqnWwB,GOrnWxB,C;UACL,IAAI,aAAJ,C;YACH,aPmnWuC,gB;YAA5B,WOlnWX,aPknWgC,GOlnWhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP+mWA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOpoWP,U;UADP,YPsoWe,WOtoWH,WPsoWwB,GOtoWxB,C;UACL,IAAI,aAAJ,C;YACH,aPooWuC,gB;YAA5B,WOnoWX,aPmoWgC,GOnoWhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPgoWA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOrpWP,U;UADP,YPupWe,WOvpWH,WPupWwB,GOvpWxB,C;UACL,IAAI,aAAJ,C;YACH,aPqpWuC,gB;YAA5B,WOppWX,aPopWgC,GOppWhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPipWA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOtqWP,U;UADP,YPwqWe,WOxqWH,WPwqWwB,GOxqWxB,C;UACL,IAAI,aAAJ,C;YACH,aPsqWuC,gB;YAA5B,WOrqWX,aPqqWgC,GOrqWhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPkqWA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOvrWP,U;UADP,YPyrWe,WOzrWH,WPyrWwB,GOzrWxB,C;UACL,IAAI,aAAJ,C;YACH,aPurWuC,gB;YAA5B,WOtrWX,aPsrWgC,GOtrWhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPmrWA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOxsWP,U;UADP,YP0sWe,WO1sWH,WP0sWwB,GO1sWxB,C;UACL,IAAI,aAAJ,C;YACH,aPwsWuC,gB;YAA5B,WOvsWX,aPusWgC,GOvsWhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPosWA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOztWP,U;UADP,YP2tWe,WO3tWH,WP2tWwB,GO3tWxB,C;UACL,IAAI,aAAJ,C;YACH,aPytWuC,gB;YAA5B,WOxtWX,aPwtWgC,GOxtWhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPqtWA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UO1uWP,U;UADP,YP4uWe,WO5uWH,WP4uWwB,GO5uWxB,C;UACL,IAAI,aAAJ,C;YACH,a,GAAuC,gB;YAA5B,WOzuWX,aPyuWgC,GOzuWhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPsuWA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UO3vWP,U;UADP,YP6vWe,WO7vWH,WP6vWwB,GO7vWxB,C;UACL,IAAI,aAAJ,C;YACH,aP2vWuC,gB;YAA5B,WO1vWX,aP0vWgC,GO1vWhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPuvWA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UO5wWP,U;UADP,YP8wWe,WO9wWH,WP8wWwB,GO9wWxB,C;UACL,IAAI,aAAJ,C;YACH,aP4wWuC,gB;YAA5B,WO3wWX,aP2wWgC,GO3wWhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPwwWA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UO7xWP,U;UADP,YP+xWe,WO/xWH,WP+xWwB,GO/xWxB,C;UACL,IAAI,aAAJ,C;YACH,aP6xWuC,gB;YAA5B,WO5xWX,aP4xWgC,GO5xWhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPyxWA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UO9yWP,U;UADP,YPgzWe,WOhzWH,WPgzWwB,GOhzWxB,C;UACL,IAAI,aAAJ,C;YACH,aP8yWuC,gB;YAA5B,WO7yWX,aP6yWgC,GO7yWhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP0yWA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UO/zWP,U;UADP,YPi0We,WOj0WH,WPi0WwB,GOj0WxB,C;UACL,IAAI,aAAJ,C;YACH,a,GAAuC,gB;YAA5B,WO9zWX,aP8zWgC,GO9zWhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP2zWA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;M

sE;QAUoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOtnVP,
U;UADP,YPwnVe,WOxnVH,WPwnVwB,GOxnVxB,C;UACL,IAAI,aAAJ,C;YACH,aPsnVuC,gB;YAA5B,WOrn
VX,aPqnVgC,GOrnVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPknVA,iB;UACA,IAAK,WAAI,eAAe,OAAf,CAA
J,C;;QAET,OAAO,W;O;KAfX,C;2FAkBA,yB;MAAA,+D;MAAA,sE;QAUoB,Q;QAAhB,wBAAgB,SAAhB,gB;U
AAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOxoVP,U;UADP,YP0oVe,WO1oVH,WP0oVwB,GO1o
VxB,C;UACL,IAAI,aAAJ,C;YACH,aPwoVuC,gB;YAA5B,WOvoVX,aPuoVgC,GOvoVhC,EAAS,MAAT,C;YAC
A,e;;YAEA,c;;UPooVA,iB;UACA,IAAK,WAAI,eAAe,OAAf,CAAJ,C;;QAET,OAAO,W;O;KAfX,C;2FAkBA,yB;
MAAA,+D;MAAA,sE;QAUoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,
OAAZ,C;UO1pVP,U;UADP,YP4pVe,WO5pVH,WP4pVwB,GO5pVxB,C;UACL,IAAI,aAAJ,C;YACH,aP0pVuC,
gB;YAA5B,WOzpVX,aPypVgC,GOzpVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPspVA,iB;UACA,IAAK,WAAI
,eAAe,OAAf,CAAJ,C;;QAET,OAAO,W;O;KAfX,C;2FAkBA,yB;MAAA,+D;MAAA,sE;QAUoB,Q;QAAhB,wBA
AgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UO5qVP,U;UADP,YP8qVe,WO9qVH
,WP8qVwB,GO9qVxB,C;UACL,IAAI,aAAJ,C;YACH,aP4qVuC,gB;YAA5B,WO3qVX,aP2qVgC,GO3qVhC,EA
AS,MAAT,C;YACA,e;;YAEA,c;;UPwqVA,iB;UACA,IAAK,WAAI,eAAe,OAAf,CAAJ,C;;QAET,OAAO,W;O;K
AfX,C;2FAkBA,yB;MAAA,oC;MAAA,+D;MAAA,gC;MAAA,sE;QAUoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAA
gB,cAAhB,UAAgB,SAAhB,O;UACI,UAAU,YAAY,oBAAZ,C;UO9rVP,U;UADP,YPgsVe,WOhsVH,WPgsVwB,
GOhsVxB,C;UACL,IAAI,aAAJ,C;YACH,aP8rVuC,gB;YAA5B,WO7rVX,aP6rVgC,GO7rVhC,EAAS,MAAT,C;Y
ACA,e;;YAEA,c;;UP0rVA,iB;UACA,IAAK,WAAI,eAAe,oBAAf,CAAJ,C;;QAET,OAAO,W;O;KAfX,C;0FAkBA
,yB;MAAA,kC;MAAA,4C;MAAA,wE;QAQW,sC;QAAA,8C;O;MARX,oDASQ,Y;QAA6C,OAAgB,qBAAhB,oB
AAgB,C;O;MATrE,iDAUQ,mB;QAAoC,gCAAY,OAAZ,C;O;MAV5C,gF;MAAA,yC;QAQI,2D;O;KARJ,C;4EAc
A,yB;MAAA,gE;MAAA,uC;QAOW,kBAAM,eAAa,gBAAb,C;QA+UA,Q;QAAb,iD;UAAa,WAAb,e;UACI,WAA
Y,WAhViB,SAgVb,CAAU,IAAV,CAAJ,C;;QAhVhB,OAiVO,W;O;KAxVX,C;8EAUA,yB;MAAA,gE;MAAA,uC
;QAOW,kBAAM,eAAa,gBAAb,C;QA+UA,Q;QAAb,iD;UAAa,WAAb,e;UACI,WAAY,WAhViB,SAgVb,CAAU,I
AAV,CAAJ,C;;QAhVhB,OAiVO,W;O;KAxVX,C;8EAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAM,eAAa,gBA
Ab,C;QA+UA,Q;QAAb,iD;UAAa,WAAb,e;UACI,WAAY,WAhViB,SAgVb,CAAU,IAAV,CAAJ,C;;QAhVhB,OA
iVO,W;O;KAxVX,C;8EAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAM,eAAa,gBAAb,C;QA+UA,Q;QAAb,iD;
UAAa,WAAb,e;UACI,WAAY,WAhViB,SAgVb,CAAU,IAAV,CAAJ,C;;QAhVhB,OAiVO,W;O;KAxVX,C;8EAU
A,yB;MAAA,gE;MAAA,uC;QAOW,kBAAM,eAAa,gBAAb,C;QA+UA,Q;QAAb,iD;UAAa,WAAb,e;UACI,WAA
Y,WAhViB,SAgVb,CAAU,IAAV,CAAJ,C;;QAhVhB,OAiVO,W;O;KAxVX,C;8EAUA,yB;MAAA,gE;MAAA,uC
;QAOW,kBAAM,eAAa,gBAAb,C;QA+UA,Q;QAAb,iD;UAAa,WAAb,e;UACI,WAAY,WAhViB,SAgVb,CAAU,I
AAV,CAAJ,C;;QAhVhB,OAiVO,W;O;KAxVX,C;8EAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAM,eAAa,gBA
Ab,C;QA+UA,Q;QAAb,iD;UAAa,WAAb,e;UACI,WAAY,WAhViB,SAgVb,CAAU,IAAV,CAAJ,C;;QAhVhB,OA
iVO,W;O;KAxVX,C;8EAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAM,eAAa,gBAAb,C;QA+UA,Q;QAAb,iD;
UAAa,WAAb,e;UACI,WAAY,WAhViB,SAgVb,CAAU,IAAV,CAAJ,C;;QAhVhB,OAiVO,W;O;KAxVX,C;8EAU
A,yB;MAAA,gE;MAiVA,oC;MAAA,gC;MAjVA,uC;QAOW,kBAAM,eAAa,gBAAb,C;QA+UA,Q;QAAb,iD;UA
Aa,WAAb,0B;UACI,WAAY,WAhViB,SAgVb,CAAU,iBAAV,CAAJ,C;;QAhVhB,OAiVO,W;O;KAxVX,C;0FAU
A,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAgHP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WA
Ab,e;UACI,WAAY,WAjHwB,SAiHpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAjHhB,OAkH
O,W;O;KAzHX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAmHP,gB;QADb,YAAY
,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WApHwB,SAoHpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,
CAAJ,C;;QApHhB,OAqHO,W;O;KA5HX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;
QAsHP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAvHwB,SAuHpB,EAAU,cAAV,EAAU,s
BAAV,WAAmB,IAAnB,CAAJ,C;;QAvHhB,OAwHO,W;O;KA/HX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,
kBAAa,eAAa,gBAAb,C;QAyHP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WA1HwB,SA0Hp
B,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QA1HhB,OA2HO,W;O;KAlIX,C;4FAUA,yB;MAAA,
gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QA4HP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,W
AAY,WA7HwB,SA6HpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QA7HhB,OA8HO,W;O;KArI
X,C;2FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QA+HP,gB;QADb,YAAY,C;QACZ,iD;U

AAa,WAAb,e;UACI,WAAY,WAhIwB,SAgIpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAhIhB,OAiIO,W;O;KAxIX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAkIP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAnIwB,SAmIpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAnIhB,OAoIO,W;O;KA3IX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAqIP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAtIwB,SAsIpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAtIhB,OAuIO,W;O;KA9IX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAwIP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAzIwB,SAyIpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAzIhB,OA0IO,W;O;KAjJX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QA2IP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WA5IwB,SA4IpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QA5IhB,OA6IO,W;O;KApJX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QA8IP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WA/IwB,SA+IpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QA/IhB,OAgJO,W;O;KAvJX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAiJP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAlJwB,SAkJpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAlJhB,OAmJO,W;O;KA1JX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAoJP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WArJwB,SAqJpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QArJhB,OAsJO,W;O;KA7JX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAuJP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAxJwB,SAwJpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAxJhB,OAyJO,W;O;KAhKX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QA0JP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WA3JwB,SA2JpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QA3JhB,OA4JO,W;O;KAnKX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QA6JP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WA9JwB,SA8JpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QA9JhB,OA+JO,W;O;KAtKX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAgKP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAjKwB,SAiKpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAjKhB,OAkKO,W;O;KAzKX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAmKP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WApKwB,SAoKpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QApKhB,OAqKO,W;O;KA5KX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAsKP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAvKwB,SAuKpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAvKhB,OAwKO,W;O;KA/KX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAyKP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WA1KwB,SA0KpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QA1KhB,OA2KO,W;O;KAlLX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QA4KP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WA7KwB,SA6KpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QA7KhB,OA8KO,W;O;KArLX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QA+KP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAhLwB,SAgLpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAhLhB,OAiLO,W;O;KAxLX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAkLP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAnLwB,SAmLpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAnLhB,OAoLO,W;O;KA3LX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAqLP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAtLwB,SAsLpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAtLhB,OAuLO,W;O;KA9LX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAwLP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAzLwB,SAyLpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAzLhB,OA0LO,W;O;KAjMX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QA2LP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WA5LwB,SA4LpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QA5LhB,OA6LO,W;O;KApMX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QA8LP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WA/LwB,SA+LpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QA/LhB,OAgMO,W;O;KAvMX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAiMP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAlMwB,SAkMpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAlMhB,OAmMO,W;O;KA1MX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAoMP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WArMwB,SAqMpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QArMhB,OAsMO,W;O;KA7MX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAuMP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAxMwB,SAwMpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAxMhB,OAyMO,W;O;KAhNX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QA0MP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WA3MwB,SA2MpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QA3MhB,OA4MO,W;O;KAnNX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QA6MP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WA9MwB,SA8MpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QA9MhB,OA+MO,W;O;KAtNX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAgNP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAjNwB,SAiNpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAjNhB,OAkNO,W;O;KAzNX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAmNP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WApNwB,SAoNpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QApNhB,OAqNO,W;O;KA5NX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAsNP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAvNwB,SAuNpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAvNhB,OAwNO,W;O;KA/NX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAyNP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WA1NwB,SA0NpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QA1NhB,OA2NO,W;O;KAlOX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QA4NP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WA7NwB,SA6NpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QA7NhB,OA8NO,W;O;KArOX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QA+NP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAhOwB,SAgOpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAhOhB,OAiOO,W;O;KAxOX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAkOP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAnOwB,SAmOpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAnOhB,OAoOO,W;O;KA3OX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAqOP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAtOwB,SAsOpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAtOhB,OAuOO,W;O;KA9OX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAwOP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAzOwB,SAyOpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAzOhB,OA0OO,W;O;KAjPX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QA2OP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WA5OwB,SA4OpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QA5OhB,OA6OO,W;O;KApPX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QA8OP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WA/OwB,SA+OpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QA/OhB,OAgPO,W;O;KAvPX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAiPP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAlPwB,SAkPpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAlPhB,OAmPO,W;O;KA1PX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAoPP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WArPwB,SAqPpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QArPhB,OAsPO,W;O;KA7PX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAuPP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAxPwB,SAwPpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAxPhB,OAyPO,W;O;KAhQX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QA0PP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WA3PwB,SA2PpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QA3PhB,OA4PO,W;O;KAnQX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QA6PP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WA9PwB,SA8PpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QA9PhB,OA+PO,W;O;KAtQX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAgQP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAjQwB,SAiQpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAjQhB,OAkQO,W;O;KAzQX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAmQP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WApQwB,SAoQpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QApQhB,OAqQO,W;O;KA5QX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAsQP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAvQwB,SAuQpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAvQhB,OAwQO,W;O;KA/QX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAyQP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WA1QwB,SA0QpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QA1QhB,OA2QO,W;O;KAlRX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QA4QP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WA7QwB,SA6QpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QA7QhB,OA8QO,W;O;KArRX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QA+QP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAhRwB,SAgRpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAhRhB,OAiRO,W;O;KAxRX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAkRP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAnRwB,SAmRpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAnRhB,OAoRO,W;O;KA3RX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAqRP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAtRwB,SAsRpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAtRhB,OAuRO,W;O;KA9RX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAwRP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAzRwB,SAyRpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAzRhB,OA0RO,W;O;KAjSX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QA2RP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WA5RwB,SA4RpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QA5RhB,OA6RO,W;O;KApSX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QA8RP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WA/RwB,SA+RpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QA/RhB,OAgSO,W;O;KAvSX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAiSP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAlSwB,SAkSpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAlShB,OAmSO,W;O;KA1SX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAoSP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WArSwB,SAqSpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QArShB,OAsSO,W;O;KA7SX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAuSP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAxSwB,SAwSpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAxShB,OAySO,W;O;KAhTX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QA0SP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WA3SwB,SA2SpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QA3ShB,OA4SO,W;O;KAnTX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QA6SP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WA9SwB,SA8SpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QA9ShB,OA+SO,W;O;KAtTX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAgTP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAjTwB,SAiTpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAjThB,OAkTO,W;O;KAzTX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAmTP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WApTwB,SAoTpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QApThB,OAqTO,W;O;KA5TX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAsTP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAvTwB,SAuTpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAvThB,OAwTO,W;O;KA/TX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAyTP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WA1TwB,SA0TpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QA1ThB,OA2TO,W;O;KAlUX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QA4TP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WA7TwB,SA6TpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QA7ThB,OA8TO,W;O;KArUX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QA+TP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAhUwB,SAgUpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAhUhB,OAiUO,W;O;KAxUX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAkUP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAnUwB,SAmUpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAnUhB,OAoUO,W;O;KA3UX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAqUP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAtUwB,SAsUpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAtUhB,OAuUO,W;O;KA9UX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAwUP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAzUwB,SAyUpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAzUhB,OA0UO,W;O;KAjVX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QA2UP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WA5UwB,SA4UpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QA5UhB,OA6UO,W;O;KApVX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QA8UP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WA/UwB,SA+UpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QA/UhB,OAgVO,W;O;KAvVX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAiVP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAlVwB,SAkVpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAlVhB,OAmVO,W;O;KA1VX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAoVP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WArVwB,SAqVpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QArVhB,OAsVO,W;O;KA7VX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAuVP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAxVwB,SAwVpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAxVhB,OAyVO,W;O;KAhWX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QA0VP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WA3VwB,SA2VpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QA3VhB,OA4VO,W;O;KAnWX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QA6VP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WA9VwB,SA8VpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QA9VhB,OA+VO,W;O;KAtWX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAgWP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAjWwB,SAiWpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAjWhB,OAkWO,W;O;KAzWX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAmWP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WApWwB,SAoWpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QApWhB,OAqWO,W;O;KA5WX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAsWP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAvWwB,SAuWpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAvWhB,OAwWO,W;O;KA/WX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAyWP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WA1WwB,SA0WpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QA1WhB,OA2WO,W;O;KAlXX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QA4WP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WA7WwB,SA6WpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QA7WhB,OA8WO,W;O;KArXX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QA+WP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAhXwB,SAgXpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAhXhB,OAiXO,W;O;KAxXX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAkXP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAnXwB,SAmXpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAnXhB,OAoXO,W;O;KA3XX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAqXP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAtXwB,SAsXpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAtXhB,OAuXO,W;O;KA9XX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAwXP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAzXwB,SAyXpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAzXhB,OA0XO,W;O;KAjYX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QA2XP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WA5XwB,SA4XpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QA5XhB,OA6XO,W;O;KApYX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QA8XP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WA/XwB,SA+XpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QA/XhB,OAgYO,W;O;KAvYX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAiYP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAlYwB,SAkYpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAlYhB,OAmYO,W;O;KA1YX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAoYP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WArYwB,SAqYpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QArYhB,OAsYO,W;O;KA7YX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAuYP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAxYwB,SAwYpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAxYhB,OAyYO,W;O;KAhZX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QA0YP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WA3YwB,SA2YpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QA3YhB,OA4YO,W;O;KAnZ

AiB,6BAAjB,C;K;IAQiB,4C;MAAA,mB;QAAE,iD;O;K;IAL9B,gC;MAKI,OAAO,qBAAiB,6BAAjB,C;K;IAQiB,
4C;MAAA,mB;QAAE,kD;O;K;IAL9B,gC;MAKI,OAAO,qBAAiB,6BAAjB,C;K;IAQiB,4C;MAAA,mB;QAAE,+
C;O;K;IAL9B,gC;MAKI,OAAO,qBAAiB,6BAAjB,C;K;IAGX,6B;MASI,OAA2B,SAAf,aAAL,SAAK,CAAe,C;K;
IAG/B,+B;MAQI,OAA2B,SAAf,eAAL,SAAK,CAAe,C;K;IAG/B,+B;MAQI,OAA2B,SAAf,eAAL,SAAK,CAAe,C
;K;IAG/B,+B;MAQI,OAA2B,SAAf,eAAL,SAAK,CAAe,C;K;IAG/B,+B;MAQI,OAA2B,SAAf,eAAL,SAAK,CAA
e,C;K;IAG/B,+B;MAQI,OAA2B,SAAf,eAAL,SAAK,CAAe,C;K;IAG/B,+B;MAQI,OAA2B,SAAf,eAAL,SAAK,C
AAe,C;K;IAG/B,+B;MAQI,OAA2B,SAAf,eAAL,SAAK,CAAe,C;K;IAG/B,+B;MAQI,OAA2B,SAAf,eAAL,SAA
K,CAAe,C;K;0FAG/B,yB;MAAA,2D;MAAA,+D;MAAA,sC;QAYc,Q;QAFV,UAAU,c;QACV,WAAW,gB;QAC
X,wBAAU,SAAV,gB;UAAU,QAAA,SAAV,M;UACI,UAAU,SAAS,CAAT,C;UACV,IAAI,GAAI,WAAI,GAAJ,C
AAR,C;YACI,IAAK,WAAI,CAAJ,C;;QAEb,OAAO,I;O;KAjBX,C;4FAoBA,yB;MAAA,2D;MAAA,+D;MAAA,s
C;QAWc,Q;QAFV,UAAU,c;QACV,WAAW,gB;QACX,wBAAU,SAAV,gB;UAAU,QAAA,SAAV,M;UACI,UAA
U,SAAS,CAAT,C;UACV,IAAI,GAAI,WAAI,GAAJ,CAAR,C;YACI,IAAK,WAAI,CAAJ,C;;QAEb,OAAO,I;O;K
AhBX,C;4FAmBA,yB;MAAA,2D;MAAA,+D;MAAA,sC;QAWc,Q;QAFV,UAAU,c;QACV,WAAW,gB;QACX,w
BAAU,SAAV,gB;UAAU,QAAA,SAAV,M;UACI,UAAU,SAAS,CAAT,C;UACV,IAAI,GAAI,WAAI,GAAJ,CAA
R,C;YACI,IAAK,WAAI,CAAJ,C;;QAEb,OAAO,I;O;KAhBX,C;4FAmBA,yB;MAAA,2D;MAAA,+D;MAAA,sC;
QAWc,Q;QAFV,UAAU,c;QACV,WAAW,gB;QACX,wBAAU,SAAV,gB;UAAU,QAAA,SAAV,M;UACI,UAAU,
SAAS,CAAT,C;UACV,IAAI,GAAI,WAAI,GAAJ,CAAR,C;YACI,IAAK,WAAI,CAAJ,C;;QAEb,OAAO,I;O;KAh
BX,C;4FAmBA,yB;MAAA,2D;MAAA,+D;MAAA,sC;QAWc,Q;QAFV,UAAU,c;QACV,WAAW,gB;QACX,wBA
AU,SAAV,gB;UAAU,QAAA,SAAV,M;UACI,UAAU,SAAS,CAAT,C;UACV,IAAI,GAAI,WAAI,GAAJ,CAAR,C
;YACI,IAAK,WAAI,CAAJ,C;;QAEb,OAAO,I;O;KAhBX,C;4FAmBA,yB;MAAA,2D;MAAA,+D;MAAA,sC;QA
Wc,Q;QAFV,UAAU,c;QACV,WAAW,gB;QACX,wBAAU,SAAV,gB;UAAU,QAAA,SAAV,M;UACI,UAAU,SA
AS,CAAT,C;UACV,IAAI,GAAI,WAAI,GAAJ,CAAR,C;YACI,IAAK,WAAI,CAAJ,C;;QAEb,OAAO,I;O;KAhBX
,C;4FAmBA,yB;MAAA,2D;MAAA,+D;MAAA,sC;QAWc,Q;QAFV,UAAU,c;QACV,WAAW,gB;QACX,wBAA
U,SAAV,gB;UAAU,QAAA,SAAV,M;UACI,UAAU,SAAS,CAAT,C;UACV,IAAI,GAAI,WAAI,GAAJ,CAAR,C;
YACI,IAAK,WAAI,CAAJ,C;;QAEb,OAAO,I;O;KAhBX,C;4FAmBA,yB;MAAA,2D;MAAA,+D;MAAA,sC;QA
Wc,Q;QAFV,UAAU,c;QACV,WAAW,gB;QACX,wBAAU,SAAV,gB;UAAU,QAAA,SAAV,M;UACI,UAAU,SA
AS,CAAT,C;UACV,IAAI,GAAI,WAAI,GAAJ,CAAR,C;YACI,IAAK,WAAI,CAAJ,C;;QAEb,OAAO,I;O;KAhBX
,C;4FAmBA,yB;MAAA,2D;MAAA,+D;MAAA,oC;MAAA,gC;MAAA,sC;QAWc,Q;QAFV,UAAU,c;QACV,WA
AW,gB;QACX,wBAAU,SAAV,gB;UAAU,QAAV,UAAU,SAAV,O;UACI,UAAU,SAAS,cAAT,C;UACV,IAAI,G
AAI,WAAI,GAAJ,CAAR,C;YACI,IAAK,WAAI,cAAJ,C;;QAEb,OAAO,I;O;KAhBX,C;IAmBA,qC;MAQI,UAAe,
aAAL,SAAK,C;MACX,YAAJ,GAAI,EAAU,KAAV,C;MACJ,OAAO,G;K;IAGX,uC;MAQI,UAAe,eAAL,SAAK,
C;MACX,YAAJ,GAAI,EAAU,KAAV,C;MACJ,OAAO,G;K;IAGX,uC;MAQI,UAAe,eAAL,SAAK,C;MACX,YA
AJ,GAAI,EAAU,KAAV,C;MACJ,OAAO,G;K;IAGX,uC;MAQI,UAAe,eAAL,SAAK,C;MACX,YAAJ,GAAI,EAA
U,KAAV,C;MACJ,OAAO,G;K;IAGX,uC;MAQI,UAAe,eAAL,SAAK,C;MACX,YAAJ,GAAI,EAAU,KAAV,C;M
ACJ,OAAO,G;K;IAGX,uC;MAQI,UAAe,eAAL,SAAK,C;MACX,YAAJ,GAAI,EAAU,KAAV,C;MACJ,OAAO,G;
K;IAGX,uC;MAQI,UAAe,eAAL,SAAK,C;MACX,YAAJ,GAAI,EAAU,KAAV,C;MACJ,OAAO,G;K;IAGX,uC;M
AQI,UAAe,eAAL,SAAK,C;MACX,YAAJ,GAAI,EAAU,KAAV,C;MACJ,OAAO,G;K;IAGX,uC;MAQI,UAAe,eA
AL,SAAK,C;MACX,YAAJ,GAAI,EAAU,KAAV,C;MACJ,OAAO,G;K;IAGX,oC;MAMI,UAAe,aAAL,SAAK,C;
MACX,YAAJ,GAAI,EAAU,KAAV,C;MACJ,OAAO,G;K;IAGX,sC;MAMI,UAAe,eAAL,SAAK,C;MACX,YAAJ,
GAAI,EAAU,KAAV,C;MACJ,OAAO,G;K;IAGX,sC;MAMI,UAAe,eAAL,SAAK,C;MACX,YAAJ,GAAI,EAAU,
KAAV,C;MACJ,OAAO,G;K;IAGX,sC;MAMI,UAAe,eAAL,SAAK,C;MACX,YAAJ,GAAI,EAAU,KAAV,C;MA
CJ,OAAO,G;K;IAGX,sC;MAMI,UAAe,eAAL,SAAK,C;MACX,YAAJ,GAAI,EAAU,KAAV,C;MACJ,OAAO,G;
K;IAGX,sC;MAMI,UAAe,eAAL,SAAK,C;MACX,YAAJ,GAAI,EAAU,KAAV,C;MACJ,OAAO,G;K;IAGX,sC;M
AMI,UAAe,eAAL,SAAK,C;MACX,YAAJ,GAAI,EAAU,KAAV,C;MACJ,OAAO,G;K;IAGX,sC;MAMI,UAAe,e
AAL,SAAK,C;MACX,YAAJ,GAAI,EAAU,KAAV,C;MACJ,OAAO,G;K;IAGX,sC;MAMI,UAAe,eAAL,SAAK,C
;MACX,YAAJ,GAAI,EAAU,KAAV,C;MACJ,OAAO,G;K;IAGX,iC;MAMI,OAAO,wBAAa,qBAAiB,YAAY,gB
AAZ,CAAjB,CAAb,C;K;IAGX,mC;MAMI,OAAO,0BAAa,qBAAoB,YAAY,gBAAZ,CAApB,CAAb,C;K;IAGX,
mC;MAMI,OAAO,0BAAa,qBAAqB,YAAY,gBAAZ,CAArB,CAAb,C;K;IAGX,mC;MAMI,OAAO,0BAAa,qBAA

mB,YAAY,gBAAZ,CAAnB,CAAb,C;K;IAGX,mC;MAMI,OAAO,0BAAa,qBAAoB,YAAY,gBAAZ,CAApB,CA
Ab,C;K;IAGX,mC;MAMI,OAAO,0BAAa,qBAAqB,YAAY,gBAAZ,CAArB,CAAb,C;K;IAGX,mC;MAMI,OAAO
,0BAAa,qBAAsB,YAAY,gBAAZ,CAAtB,CAAb,C;K;IAGX,mC;MAMI,OAAO,0BAAa,qBAAuB,YAAY,gBAAZ
,CAAvB,CAAb,C;K;IAGX,mC;MAMI,OAAO,0BAAa,qBAAoB,YAAiB,eAAL,gBAAK,EAAa,GAAb,CAAjB,CA
ApB,CAAb,C;K;IAGX,iC;MAUI,UAAe,aAAL,SAAK,C;MACX,OAAJ,GAAI,EAAO,KAAP,C;MACJ,OAAO,G;
K;IAGX,mC;MAUI,UAAe,eAAL,SAAK,C;MACX,OAAJ,GAAI,EAAO,KAAP,C;MACJ,OAAO,G;K;IAGX,mC;
MAUI,UAAe,eAAL,SAAK,C;MACX,OAAJ,GAAI,EAAO,KAAP,C;MACJ,OAAO,G;K;IAGX,mC;MAUI,UAAe,
eAAL,SAAK,C;MACX,OAAJ,GAAI,EAAO,KAAP,C;MACJ,OAAO,G;K;IAGX,mC;MAUI,UAAe,eAAL,SAAK,
C;MACX,OAAJ,GAAI,EAAO,KAAP,C;MACJ,OAAO,G;K;IAGX,mC;MAUI,UAAe,eAAL,SAAK,C;MACX,OA
AJ,GAAI,EAAO,KAAP,C;MACJ,OAAO,G;K;IAGX,mC;MAUI,UAAe,eAAL,SAAK,C;MACX,OAAJ,GAAI,EA
AO,KAAP,C;MACJ,OAAO,G;K;IAGX,mC;MAUI,UAAe,eAAL,SAAK,C;MACX,OAAJ,GAAI,EAAO,KAAP,C;
MACJ,OAAO,G;K;IAGX,mC;MAUI,UAAe,eAAL,SAAK,C;MACX,OAAJ,GAAI,EAAO,KAAP,C;MACJ,OAAO,
G;K;4EAGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,CAAC,UA
AU,OAAV,CAAL,C;UAAyB,OAAO,K;;MACtD,OAAO,I;K;8EAGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,
gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,OAAO,K;;MACtD,OAAO,I
;K;8EAGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,CAAC,UAA
U,OAAV,CAAL,C;UAAyB,OAAO,K;;MACtD,OAAO,I;K;8EAGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB
;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,OAAO,K;;MACtD,OAAO,I;K;
8EAGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,CAAC,UAAU,O
AAV,CAAL,C;UAAyB,OAAO,K;;MACtD,OAAO,I;K;8EAGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;Q
AAgB,cAAA,SAAhB,M;QAAsB,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,OAAO,K;;MACtD,OAAO,I;K;8E
AGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,CAAC,UAAU,OA
AV,CAAL,C;UAAyB,OAAO,K;;MACtD,OAAO,I;K;8EAGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QA
AgB,cAAA,SAAhB,M;QAAsB,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,OAAO,K;;MACtD,OAAO,I;K;8EA
GX,yB;MAAA,oC;MAAA,gC;MAAA,uC;QAMoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SA
AhB,O;UAAsB,IAAI,CAAC,UAAU,oBAAV,CAAL,C;YAAyB,OAAO,K;;QACtD,OAAO,I;O;KAPX,C;IAUA,w
B;MAMI,OAAO,EA5mJA,qBAAQ,CA4mJR,C;K;IAGX,0B;MAMI,OAAO,EA7mJA,qBAAQ,CA6mJR,C;K;IAG
X,0B;MAMI,OAAO,EA9mJA,qBAAQ,CA8mJR,C;K;IAGX,0B;MAMI,OAAO,EA/mJA,qBAAQ,CA+mJR,C;K;I
AGX,0B;MAMI,OAAO,EAhnJA,qBAAQ,CAgnJR,C;K;IAGX,0B;MAMI,OAAO,EAjnJA,qBAAQ,CAinJR,C;K;I
AGX,0B;MAMI,OAAO,EAlnJA,qBAAQ,CAknJR,C;K;IAGX,0B;MAMI,OAAO,EAnnJA,qBAAQ,CAmnJR,C;K;I
AGX,0B;MAMI,OAAO,EApnJA,qBAAQ,CAonJR,C;K;8EAGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;Q
AAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,I;;MACrD,OAAO,K;K;8EAGX,g
C;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;U
AAwB,OAAO,I;;MACrD,OAAO,K;K;+EAGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SA
AhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,I;;MACrD,OAAO,K;K;+EAGX,gC;MAMoB,Q;M
AAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,I;;
MACrD,OAAO,K;K;+EAGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,I
AAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,I;;MACrD,OAAO,K;K;+EAGX,gC;MAMoB,Q;MAAhB,wBAAgB,
SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,I;;MACrD,OAAO,
K;K;+EAGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OA
AV,CAAJ,C;UAAwB,OAAO,I;;MACrD,OAAO,K;K;+EAGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QA
AgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,I;;MACrD,OAAO,K;K;+EAGX,yB
;MAAA,oC;MAAA,gC;MAAA,uC;QAMoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O
;UAAsB,IAAI,UAAU,oBAAV,CAAJ,C;YAAwB,OAAO,I;;QACrD,OAAO,K;O;KAPX,C;gFAUA,qB;MAKI,OA
AO,gB;K;kFAGX,qB;MAKI,OAAO,gB;K;kFAGX,qB;MAKI,OAAO,gB;K;kFAGX,qB;MAKI,OAAO,gB;K;kFA
GX,qB;MAKI,OAAO,gB;K;kFAGX,qB;MAKI,OAAO,gB;K;kFAGX,qB;MAKI,OAAO,gB;K;kFAGX,qB;MAKI,
OAAO,gB;K;kFAGX,qB;MAKI,OAAO,gB;K;kFAGX,gC;MAKoB,Q;MADhB,YAAY,C;MACZ,wBAAgB,SAAh
B,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,qB;;MAC9C,OAAO,K;K;kFAGX

,gC;MAKoB,Q;MADhB,YAAY,C;MACZ,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,
OAAV,CAAJ,C;UAAwB,qB;;MAC9C,OAAO,K;K;mFAGX,gC;MAKoB,Q;MADhB,YAAY,C;MACZ,wBAAgB,
SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,qB;;MAC9C,OAAO,K;K;
mFAGX,gC;MAKoB,Q;MADhB,YAAY,C;MACZ,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI
,UAAU,OAAV,CAAJ,C;UAAwB,qB;;MAC9C,OAAO,K;K;mFAGX,gC;MAKoB,Q;MADhB,YAAY,C;MACZ,w
BAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,qB;;MAC9C,OAA
O,K;K;mFAGX,gC;MAKoB,Q;MADhB,YAAY,C;MACZ,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAs
B,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,qB;;MAC9C,OAAO,K;K;mFAGX,gC;MAKoB,Q;MADhB,YAAY,C;M
ACZ,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,qB;;MAC9
C,OAAO,K;K;mFAGX,gC;MAKoB,Q;MADhB,YAAY,C;MACZ,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,
M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,qB;;MAC9C,OAAO,K;K;mFAGX,yB;MAAA,oC;MAAA,gC;
MAAA,uC;QAKoB,Q;QADhB,YAAY,C;QACZ,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UAAs
B,IAAI,UAAU,oBAAV,CAAJ,C;YAAwB,qB;;QAC9C,OAAO,K;O;KANX,C;8EASA,yC;MAUoB,Q;MADhB,kB
AAkB,O;MAClB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,cAAc,UAAU,WAAV,EAAuB,OAAv
B,C;;MACpC,OAAO,W;K;gFAGX,yC;MAUoB,Q;MADhB,kBAAkB,O;MAClB,wBAAgB,SAAhB,gB;QAAgB,c
AAA,SAAhB,M;QAAsB,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;;MACpC,OAAO,W;K;gFAGX,yC;MAUoB,Q;
MADhB,kBAAkB,O;MAClB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,cAAc,UAAU,WAAV,EA
AuB,OAAvB,C;;MACpC,OAAO,W;K;gFAGX,yC;MAUoB,Q;MADhB,kBAAkB,O;MAClB,wBAAgB,SAAhB,gB
;QAAgB,cAAA,SAAhB,M;QAAsB,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;;MACpC,OAAO,W;K;gFAGX,yC;
MAUoB,Q;MADhB,kBAAkB,O;MAClB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,cAAc,UAAU,
WAAV,EAAuB,OAAvB,C;;MACpC,OAAO,W;K;gFAGX,yC;MAUoB,Q;MADhB,kBAAkB,O;MAClB,wBAAgB
,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;;MACpC,OAAO,W;K;g
FAGX,yC;MAUoB,Q;MADhB,kBAAkB,O;MAClB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,cA
Ac,UAAU,WAAV,EAAuB,OAAvB,C;;MACpC,OAAO,W;K;gFAGX,yC;MAUoB,Q;MADhB,kBAAkB,O;MACl
B,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;;MACpC,O
AAO,W;K;gFAGX,yB;MAAA,oC;MAAA,gC;MAAA,gD;QAUoB,Q;QADhB,kBAAkB,O;QAClB,wBAAgB,SAA
hB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UAAsB,cAAc,UAAU,WAAV,EAAuB,oBAAvB,C;;QACpC,OAAO,W
;O;KAXX,C;4FAcA,yC;MAYoB,UAA8B,M;MAF9C,YAAY,C;MACZ,kBAAkB,O;MAClB,wBAAgB,SAAhB,gB
;QAAgB,cAAA,SAAhB,M;QAAsB,cAAc,WAAU,cAAV,EAAAU,sBAAV,WAAmB,WAAnB,EAAgC,OAAhC,C;;
MACpC,OAAO,W;K;8FAGX,yC;MAYoB,UAA8B,M;MAF9C,YAAY,C;MACZ,kBAAkB,O;MAClB,wBAAgB,S
AAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,cAAc,WAAU,cAAV,EAAAU,sBAAV,WAAmB,WAAnB,EAAgC,O
AAhC,C;;MACpC,OAAO,W;K;8FAGX,yC;MAYoB,UAA8B,M;MAF9C,YAAY,C;MACZ,kBAAkB,O;MAClB,w
BAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,cAAc,WAAU,cAAV,EAAAU,sBAAV,WAAmB,WAAnB,E
AAgC,OAAhC,C;;MACpC,OAAO,W;K;8FAGX,yC;MAYoB,UAA8B,M;MAF9C,YAAY,C;MACZ,kBAAkB,O;
MAClB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,cAAc,WAAU,cAAV,EAAAU,sBAAV,WAAmB,
WAAnB,EAAgC,OAAhC,C;;MACpC,OAAO,W;K;8FAGX,yC;MAYoB,UAA8B,M;MAF9C,YAAY,C;MACZ,kB
AAkB,O;MAClB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,cAAc,WAAU,cAAV,EAAAU,sBAAV,
WAAmB,WAAnB,EAAgC,OAAhC,C;;MACpC,OAAO,W;K;8FAGX,yC;MAYoB,UAA8B,M;MAF9C,YAAY,C;
MACZ,kBAAkB,O;MAClB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,cAAc,WAAU,cAAV,EAA
U,sBAAV,WAAmB,WAAnB,EAAgC,OAAhC,C;;MACpC,OAAO,W;K;8FAGX,yC;MAYoB,UAA8B,M;MAF9C,
YAAY,C;MACZ,kBAAkB,O;MAClB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,cAAc,WAAU,cA
AV,EAAAU,sBAAV,WAAmB,WAAnB,EAAgC,OAAhC,C;;MACpC,OAAO,W;K;8FAGX,yC;MAYoB,UAA8B,M
;MAF9C,YAAY,C;MACZ,kBAAkB,O;MAClB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,cAAc,W
AAU,cAAV,EAAAU,sBAAV,WAAmB,WAAnB,EAAgC,OAAhC,C;;MACpC,OAAO,W;K;8FAGX,yB;MAAA,oC;
MAAA,gC;MAAA,gD;QAYoB,UAA8B,M;QAF9C,YAAY,C;QACZ,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;U
AAgB,cAAhB,UAAgB,SAAhB,O;UAAsB,cAAc,WAAU,cAAV,EAAAU,sBAAV,WAAmB,WAAnB,EAAgC,oBA
AhC,C;;QACpC,OAAO,W;O;KAbX,C;wFAgBA,yB;MAAA,8D;MAAA,gD;QAYoC,Q;QAAhC,YAAY,wB;QAC
Z,kBAAkB,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAAI,YAAAJ,EAAAI,oBAAAJ,OAAAV,EAAAwB,

WAAxB,C;;QAElB,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,8D;MAAA,gD;QAYoC,Q;QAHhC,YAAY,wB;QA
CZ,kBAAkB,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,YAAJ,EAAI,oBAAJ,OAAV,EAAwB
,WAAxB,C;;QAElB,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,8D;MAAA,gD;QAYoC,Q;QAHhC,YAAY,wB;Q
ACZ,kBAAkB,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,YAAJ,EAAI,oBAAJ,OAAV,EAAw
B,WAAxB,C;;QAElB,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,8D;MAAA,gD;QAYoC,Q;QAHhC,YAAY,wB;
QACZ,kBAAkB,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,YAAJ,EAAI,oBAAJ,OAAV,EAA
wB,WAAxB,C;;QAElB,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,8D;MAAA,gD;QAYoC,Q;QAHhC,YAAY,wB
;QACZ,kBAAkB,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,YAAJ,EAAI,oBAAJ,OAAV,EA
AwB,WAAxB,C;;QAElB,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,8D;MAAA,gD;QAYoC,Q;QAHhC,YAAY,w
B;QACZ,kBAAkB,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,YAAJ,EAAI,oBAAJ,OAAV,E
AAwB,WAAxB,C;;QAElB,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,8D;MAAA,gD;QAYoC,Q;QAHhC,YAAY,
wB;QACZ,kBAAkB,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,YAAJ,EAAI,oBAAJ,OAAV,
EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,8D;MAAA,gD;QAYoC,Q;QAHhC,YAA
Y,wB;QACZ,kBAAkB,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,YAAJ,EAAI,oBAAJ,OAA
V,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,8D;MAAA,oC;MAAA,gD;QAYoC,Q;
QAHhC,YAAY,wB;QACZ,kBAAkB,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,sBAAI,YAAJ,EAA
I,oBAAJ,QAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAdX,C;sGAiBA,yB;MAAA,8D;MAAA,gD;QAUI,Y
AAY,wB;QACZ,kBAAkB,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,UAAI,KAAJ,
CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KAhBX,C;wGAmBA,yB;MAAA,8D;MAAA,gD;QAU
I,YAAY,wB;QACZ,kBAAkB,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,UAAI,KA
AJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KAhBX,C;wGAmBA,yB;MAAA,8D;MAAA,gD;Q
AUI,YAAY,wB;QACZ,kBAAkB,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,UAAI,
KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KAhBX,C;wGAmBA,yB;MAAA,8D;MAAA,g
D;QAUI,YAAY,wB;QACZ,kBAAkB,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,UA
AI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KAhBX,C;wGAmBA,yB;MAAA,8D;MAAA
,gD;QAUI,YAAY,wB;QACZ,kBAAkB,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,U
AAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KAhBX,C;wGAmBA,yB;MAAA,8D;MAA
A,gD;QAUI,YAAY,wB;QACZ,kBAAkB,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,
UAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KAhBX,C;wGAmBA,yB;MAAA,8D;MA
AA,gD;QAUI,YAAY,wB;QACZ,kBAAkB,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAi
B,UAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KAhBX,C;wGAmBA,yB;MAAA,8D;
MAAA,gD;QAUI,YAAY,wB;QACZ,kBAAkB,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,E
AAiB,UAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KAhBX,C;wGAmBA,yB;MAAA,8
D;MAAA,oC;MAAA,gD;QAUI,YAAY,wB;QACZ,kBAAkB,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UA
AU,KAAV,EAAiB,sBAAI,KAAJ,EAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KAhBX,C;oFAmBA
,6B;MAIoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,OAAO,OAAP,C;;K;sFAG1B,6B
;MAIoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,OAAO,OAAP,C;;K;sFAG1B,6B;M
AIoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,OAAO,OAAP,C;;K;sFAG1B,6B;MAI
oB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,OAAO,OAAP,C;;K;sFAG1B,6B;MAIoB,
Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,OAAO,OAAP,C;;K;sFAG1B,6B;MAIoB,Q;
MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,OAAO,OAAP,C;;K;sFAG1B,6B;MAIoB,Q;M
AAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,OAAO,OAAP,C;;K;sFAG1B,6B;MAIoB,Q;MAA
hB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,OAAO,OAAP,C;;K;sFAG1B,yB;MAAA,oC;MAAA,
gC;MAAA,oC;QAIoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UAAsB,OAAO,oBA
AP,C;;O;KAJ1B,C;kGAOA,6B;MAOiB,UAAa,M;MAD1B,YAAY,C;MACZ,wBAAa,SAAb,gB;QAAa,WAAA,SA
Ab,M;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;K;oGAGvB,6B;MAOiB,UAAa,M;MAD1B,YA
AY,C;MACZ,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,
C;;K;oGAGvB,6B;MAOiB,UAAa,M;MAD1B,YAAY,C;MACZ,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QAA

mB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;K;oGAGvB,6B;MAOiB,UAAa,M;MAD1B,YAAY,C;MAC
Z,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;K;oGAG
vB,6B;MAOiB,UAAa,M;MAD1B,YAAY,C;MACZ,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QAAmB,QAAO,c
AAP,EAAO,sBAAP,WAAgB,IAAhB,C;;K;oGAGvB,6B;MAOiB,UAAa,M;MAD1B,YAAY,C;MACZ,wBAAa,SA
Ab,gB;QAAa,WAAA,SAAb,M;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;K;oGAGvB,6B;MAOi
B,UAAa,M;MAD1B,YAAY,C;MACZ,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QAAmB,QAAO,cAAP,EAAO,
sBAAP,WAAgB,IAAhB,C;;K;oGAGvB,6B;MAOiB,UAAa,M;MAD1B,YAAY,C;MACZ,wBAAa,SAAb,gB;QAA
a,WAAA,SAAb,M;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;K;oGAGvB,yB;MAAA,oC;MAAA
,gC;MAAA,oC;QAOiB,UAAa,M;QAD1B,YAAY,C;QACZ,wBAAa,SAAb,gB;UAAa,WAAb,UAAa,SAAb,O;UA
AmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,iBAAhB,C;;O;KAPvB,C;IAUA,wB;MAII,OAAO,oB;K;IAGX,0B;M
AII,OAAO,sB;K;IAGX,0B;MAGI,OAAO,sB;K;IAGX,0B;MAGI,OAAO,sB;K;IAGX,0B;MAGI,OAAO,sB;K;IAG
X,0B;MAGI,OAAO,sB;K;IAGX,0B;MAGI,OAAO,sB;K;IAGX,0B;MAGI,OAAO,sB;K;IAGX,0B;MAGI,OAAO,s
B;K;IAGX,0B;MAGI,OAAO,sB;K;gFAGX,yB;MAsDA,8D;MAtDA,sC;QAGW,sB;;UA0DP,IAhxLO,qBAAQ,CA
gxLf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAj
B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA9DmB,QA8DJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,
M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAjEe,QAiEP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cA
CI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QAvEP,yB;O;KAHJ,C;IAMA,wB;MAwFA,8D;MAxFA,sC;QAGW,sB;;UA
2EP,IA/xLO,qBAAQ,CA+xLf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAj
B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA/EmB,QA+EJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAlFe,QAkFP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QAxFP,yB;O;KAHJ,C;IAMA,wB;MAwFA,8D;MAxFA,sC;QAGW,sB;;UA4FP,IA9yLO,qBAAQ,CA8yLf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAj
B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAhGmB,QAgGJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAnGe,QAmGP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QAzGP,yB;O;KAHJ,C;IAMA,wB;MAwFA,8D;MAxFA,sC;QAGW,sB;;UA6GP,IA50LO,qBAAQ,CA40Lf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAj
B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAjHmB,QAiHJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QApHe,QAoHP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA1HP,yB;O;KAHJ,C;IAMA,wB;MAwFA,8D;MAxFA,sC;QAGW,sB;;UA8HP,IA71LO,qBAAQ,CA61Lf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAj
B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAlImB,QAkIJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QArIe,QAqIP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA3IP,yB;O;KAHJ,C;IAMA,wB;MAwFA,8D;MAxFA,sC;QAGW,sB;;UA+IP,IA92LO,qBAAQ,CA82Lf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAj
B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAnJmB,QAmJJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAtJe,QAsJP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA5JP,yB;O;KAHJ,C;IAMA,wB;MAwFA,8D;MAxFA,sC;QAGW,sB;;UAgKP,IA/3LO,qBAAQ,CA+3Lf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAj
B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eApKmB,QAoKJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAvKe,QAuKP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA7KP,yB;O;KAHJ,C;IAMA,wB;MAwFA,8D;MAxFA,sC;QAGW,sB;;UAiLP,IAh5LO,qBAAQ,CAg5Lf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAj
B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eArLmB,QAqLJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAxLe,QAwLP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA9LP,yB;O;KAHJ,C;IAMA,wB;MAwFA,8D;MAxFA,sC;QAGW,sB;;UAkMP,IAj6LO,qBAAQ,CAi6Lf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAj
B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAtMmB,QAsMJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAzMe,QAyMP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA/MP,yB;O;KAHJ,C;IAMA,wB;MAwFA,8D;MAxFA,sC;QAGW,sB;;UAmNP,IAl7LO,qBAAQ,CAk7Lf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAj
B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAvNmB,QAuNJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QA1Ne,QA0NP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QAhOP,yB;O;KAHJ,C;IAMA,wB;MAwFA,8D;MAxFA,sC;QAGW,sB;;UAoOP,IAn8LO,qBAAQ,CAm8Lf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAj
B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAxOmB,QAwOJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QA3Oe,QA2OP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QAjPP,yB;O;KAHJ,C;IAMA,wB;MAwFA,8D;MAxFA,sC;QAGW,sB;;UAqPP,IAp9LO,qBAAQ,CAo9Lf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAj
B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAzPmB,QAyPJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QA5Pe,QA4PP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QAlQP,yB;O;KAHJ,C;IAMA,wB;MAwFA,8D;MAxFA,sC;QAGW,sB;;UAsQP,IAr+LO,qBAAQ,CAq+Lf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAj
B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA1QmB,QA0QJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QA7Qe,QA6QP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QAnRP,yB;O;KAHJ,C;IAMA,wB;MAwFA,8D;MAxFA,sC;QAGW,sB;;UAuRP,IAt/LO,qBAAQ,CAs/Lf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAj
B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA3RmB,QA2RJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QA9Re,QA8RP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QApSP,yB;O;KAHJ,C;IAMA,wB;MAwFA,8D;MAxFA,sC;QAGW,sB;;UAwSP,IAv/LO,qBAAQ,CAu/Lf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAj
B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA5SmB,QA4SJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QA/Se,QA+SP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QArTP,yB;O;KAHJ,C;IAMA,wB;MAwFA,8D;MAxFA,sC;QAGW,sB;;UAyTP,IAx/LO,qBAAQ,CAw/Lf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAj
B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA7TmB,QA6TJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAhUe,QAgUP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QAtUP,yB;O;KAHJ,C;IAMA,wB;MAwFA,8D;MAxFA,sC;QAGW,sB;;UA0UP,IAz/LO,qBAAQ,CAy/Lf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAj
B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA9UmB,QA8UJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAjVe,QAiVP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QAvVP,yB;O;KAHJ,C;IAMA,wB;MAwFA,8D;MAxFA,sC;QAGW,sB;;UA2VP,IA1iMO,qBAAQ,CA0iMf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAj
B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA/VmB,QA+VJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAlWe,QAkWP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QAxWP,yB;O;KAHJ,C;IAMA,wB;MAwFA,8D;MAxFA,sC;QAGW,sB;;UA4WP,IA3jMO,qBAAQ,CA2jMf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAj
B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAhXmB,QAgXJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAnXe,QAmXP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QAzXP,yB;O;KAHJ,C;IAMA,wB;MAwFA,8D;MAxFA,sC;QAGW,sB;;UA6XP,IA5kMO,qBAAQ,CA4kMf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAj
B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAjYmB,QAiYJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QApYe,QAoYP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA1YP,yB;O;KAHJ,C;IAMA,wB;MAwFA,8D;MAxFA,sC;QAGW,sB;;UA8YP,IA7lMO,qBAAQ,CA6lMf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAj
B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAlZmB,QAkZJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QArZe,QAqZP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA3ZP,yB;O;KAHJ,C;IAMA,wB;MAwFA,8D;MAxFA,sC;QAGW,sB;;UA+ZP,IA9mMO,qBAAQ,CA8mMf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAj
B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAnamB,QAmaJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAtae,QAsaP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA5aP,yB;O;KAHJ,C;IAMA,wB;MAwFA,8D;MAxFA,sC;QAGW,sB;;UAgbP,IA/nMO,qBAAQ,CA+nMf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAj
B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eApbmB,QAobJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAvbe,QAubP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA7bP,yB;O;KAHJ,C;IAMA,wB;MAwFA,8D;MAxFA,sC;QAGW,sB;;UAicP,IAhpMO,qBAAQ,CAgpMf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAj
B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eArcmB,QAqcJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAxce,QAwcP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA9cP,yB;O;KAHJ,C;IAMA,wB;MAwFA,8D;MAxFA,sC;QAGW,sB;;UAkdP,IAjqMO,qBAAQ,CAiqMf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAj
B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAtdmB,QAsdJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAzde,QAydP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA/dP,yB;O;KAHJ,C;IAMA,wB;MAwFA,8D;MAxFA,sC;QAGW,sB;;UAmePA

,IAx4LO,qBAAQ,CAw4Lf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAtMmB,QAsMJ,CAAS,oBAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAzMe,QAyMP,CAAS,cAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA/MP,yB;O;KAHJ,C;4FAMA,yB;MAAA,8D;MAAA,sC;QAOI,IAhxLO,qBAAQ,CAgxLf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IA/xLO,qBAAQ,CA+xLf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IA9yLO,qBAAQ,CA8yLf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IA7zLO,qBAAQ,CA6zLf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IA50LO,qBAAQ,CA40Lf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IAn1LO,qBAAQ,CAm1Lf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IA11LO,qBAAQ,CA01Lf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IAj2LO,qBAAQ,CAi2Lf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IAx2LO,qBAAQ,CAw2Lf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IA/2LO,qBAAQ,CA+2Lf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IAt3LO,qBAAQ,CAs3Lf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IA73LO,qBAAQ,CA63Lf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IAp4LO,qBAAQ,CAo4Lf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IA35LO,qBAAQ,CA25Lf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IA15LO,qBAAQ,CA05Lf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IAr6LO,qBAAQ,CAq6Lf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IAh7LO,qBAAQ,CAg7Lf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IA37LO,qBAAQ,CA27Lf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IAt8LO,qBAAQ,CAs8Lf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IAj9LO,qBAAQ,CAi9Lf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IAx9LO,qBAAQ,CAw9Lf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IA/9LO,qBAAQ,CA+9Lf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IAt+LO,qBAAQ,CAs+Lf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IA7+LO,qBAAQ,CA6+Lf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IAp/LO,qBAAQ,CAo/Lf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IA3/LO,qBAAQ,CA2/Lf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IAlgMO,qBAAQ,CAkgMf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IAzgMO,qBAAQ,CAygMf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IAhhMO,qBAAQ,CAghMf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IAvhMO,qBAAQ,CAuhMf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IA9hMO,qBAAQ,CA8hMf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IAriMO,qBAAQ,CAqiMf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IA5iMO,qBAAQ,CA4iMf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IAnjMO,qBAAQ,CAmjMf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IA1jMO,qBAAQ,CA0jMf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IAjkMO,qBAAQ,CAikMf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IAxkMO,qBAAQ,CAwkMf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IA/kMO,qBAAQ,CA+kMf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IAtlMO,qBAAQ,CAslMf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IA7lMO,qBAAQ,CA6lMf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IApmMO,qBAAQ,CAomMf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IA3mMO,qBAAQ,CA2mMf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IAlnMO,qBAAQ,CAknMf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IAznMO,qBAAQ,CAynMf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IAhoMO,qBAAQ,CAgoMf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IAvoMO,qBAAQ,CAuoMf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IA9oMO,qBAAQ,CA8oMf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IArpMO,qBAAQ,CAqpMf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IA5pMO,qBAAQ,CA4pMf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IAnqMO,qBAAQ,CAmqMf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IA1qMO,qBAAQ,CA0qMf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IAjrMO,qBAAQ,CAirMf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IAxrMO,qBAAQ,CAwrMf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;MAAA,8D;MAAA,sC;QAOI,IA/rMO,qBAAQ,CA+rMf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;UACd,gBAAqB,cAAL,SAAK,C;UAAL,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,qBAAO,O;O;KAAP,yB;8FAAA,yB;M

qqbiB,CkBrqbjB,C;;QlBuqbd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBlrbA,iB;MlBkrbA,sC;QAeiB,Q;QAFb,IA/gMO,qBAAQ,CA+gMf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB3rbG,MAAO,KlB2rbO,QkB3rbP,ElB2rbiB,CkB3rbjB,C;;QlB6rbd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBxsbA,iB;MlBwsbO,QkBxsbP,ElBwsbiB,CkBxsbjB,C;;QlB0sbd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB9tbA,iB;MlB8tbO,QkB9tbP,ElB8tbiB,CkB9tbjB,C;;QlBguBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBpvbA,iB;MlBovbO,QkBpvbP,ElBovbiB,CkBpvbjB,C;;QlBsvbd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB1wbA,iB;MlB0wbO,QkB1wbP,ElB0wbiB,CkB1wbjB,C;;QlB4wbd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBhybA,iB;MlBgybO,QkBhybP,ElBgybiB,CkBhybjB,C;;QlBkybd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,oC;MAAA,8D;MkBtzbA,iB;MlBszbO,QkBtzbP,ElBszbiB,CkBtzbjB,C;;QlBwzbd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB50bA,iB;MlB40bO,QkB50bP,ElB40biB,CkB50bjB,C;;QlB80bd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBl1bA,iB;MlBk1bO,QkBl1bP,ElBk1biB,CkBl1bjB,C;;QlBo1bd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBx2bA,iB;MlBw2bO,QkBx2bP,ElBw2biB,CkBx2bjB,C;;QlB02bd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB93bA,iB;MlB83bO,QkB93bP,ElB83biB,CkB93bjB,C;;QlBg4bd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBp5bA,iB;MlBo5bO,QkBp5bP,ElBo5biB,CkBp5bjB,C;;QlBs5bd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB16bA,iB;MlB06bO,QkB16bP,ElB06biB,CkB16bjB,C;;QlB46bd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBh8bA,iB;MlBg8bO,QkBh8bP,ElBg8biB,CkBh8bjB,C;;QlBk8bd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBt9bA,iB;MlBs9bO,QkBt9bP,ElBs9biB,CkBt9bjB,C;;QlBw9bd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB5+bA,iB;MlB4+bO,QkB5+bP,ElB4+biB,CkB5+bjB,C;;QlB8+bd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBlgcA,iB;MlBkgcO,QkBlgcP,ElBkgciB,CkBlgcjB,C;;QlBogcd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBxhcA,iB;MlBwhcO,QkBxhcP,ElBwhciB,CkBxhcjB,C;;QlB0hcd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB9icA,iB;MlB8icO,QkB9icP,ElB8iciB,CkB9icjB,C;;QlBgjcd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBpkcA,iB;MlBokcO,QkBpkcP,ElBokciB,CkBpkcjB,C;;QlBskcd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB1lcA,iB;MlB0lcO,QkB1lcP,ElB0lciB,CkB1lcjB,C;;QlB4lcd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBhncA,iB;MlBgncO,QkBhncP,ElBgnciB,CkBhncjB,C;;QlBkncd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBtocA,iB;MlBsocO,QkBtocP,ElBsociB,CkBtocjB,C;;QlBwocd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB5pcA,iB;MlB4pcO,QkB5pcP,ElB4pciB,CkB5pcjB,C;;QlB8pcd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBlrcA,iB;MlBkrcO,QkBlrcP,ElBkrciB,CkBlrcjB,C;;QlBorcd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBxscA,iB;MlBwscO,QkBxscP,ElBwsciB,CkBxscjB,C;;QlB0scd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB9tcA,iB;MlB8tcO,QkB9tcP,ElB8tciB,CkB9tcjB,C;;QlBguccd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBpvcA,iB;MlBovcO,QkBpvcP,ElBovciB,CkBpvcjB,C;;QlBsvccd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB1wcA,iB;MlB0wcO,QkB1wcP,ElB0wciB,CkB1wcjB,C;;QlB4wccd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBhycA,iB;MlBgycO,QkBhycP,ElBgyciB,CkBhycjB,C;;QlBkyccd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBtzcA,iB;MlBszcO,QkBtzcP,ElBszciB,CkBtzcjB,C;;QlBwzccd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB50cA,iB;MlB40cO,QkB50cP,ElB40ciB,CkB50cjB,C;;QlB80cd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBl1cA,iB;MlBk1cO,QkBl1cP,ElBk1ciB,CkBl1cjB,C;;QlBo1cd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBx2cA,iB;MlBw2cO,QkBx2cP,ElBw2ciB,CkBx2cjB,C;;QlB02cd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB93cA,iB;MlB83cO,QkB93cP,ElB83ciB,CkB93cjB,C;;QlBg4cd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBp5cA,iB;MlBo5cO,QkBp5cP,ElBo5ciB,CkBp5cjB,C;;QlBs5cd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB16cA,iB;MlB06cO,QkB16cP,ElB06ciB,CkB16cjB,C;;QlB46cd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBh8cA,iB;MlBg8cO,QkBh8cP,ElBg8ciB,CkBh8cjB,C;;QlBk8cd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBt9cA,iB;MlBs9cO,QkBt9cP,ElBs9ciB,CkBt9cjB,C;;QlBw9cd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB5+cA,iB;MlB4+cO,QkB5+cP,ElB4+ciB,CkB5+cjB,C;;QlB8+cd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBlgdA,iB;MlBkgdO,QkBlgdP,ElBkgdiB,CkBlgdjB,C;;QlBogdd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBxhdA,iB;MlBwhdO,QkBxhdP,ElBwhdiB,CkBxhdjB,C;;QlB0hdd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB9idA,iB;MlB8idO,QkB9idP,ElB8idiB,CkB9idjB,C;;QlBgjdd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBpkdA,iB;MlBokdO,QkBpkdP,ElBokdiB,CkBpkdjB,C;;QlBskdd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB1ldA,iB;MlB0ldO,QkB1ldP,ElB0ldiB,CkB1ldjB,C;;QlB4ldd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBhmdA,iB;MlBgmdO,QkBhmdP,ElBgmdiB,CkBhmdjB,C;;QlBkmdd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBtndA,iB;MlBsndO,QkBtndP,ElBsndiB,CkBtndjB,C;;QlBwndd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB5odA,iB;MlB4odO,QkB5odP,ElB4odiB,CkB5odjB,C;;QlB8odd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBlpdA,iB;MlBkpdO,QkBlpdP,ElBkpdiB,CkBlpdjB,C;;QlBopdd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBxqdA,iB;MlBwqdO,QkBxqdP,ElBwqdiB,CkBxqdjB,C;;QlB0qdd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB9rdA,iB;MlB8rdO,QkB9rdP,ElB8rdiB,CkB9rdjB,C;;QlBgsdd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBptdA,iB;MlBotdO,QkBptdP,ElBotdiB,CkBptdjB,C;;QlBstdd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB1udA,iB;MlB0udO,QkB1udP,ElB0udiB,CkB1udjB,C;;QlB4udd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBhvdA,iB;MlBgvdO,QkBhvdP,ElBgvdiB,CkBhvdjB,C;;QlBkvdd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBtwdA,iB;MlBswdO,QkBtwdP,ElBswdiB,CkBtwdjB,C;;QlBwwdd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB5xdA,iB;MlB4xdO,QkB5xdP,ElB4xdiB,CkB5xdjB,C;;QlB8xdd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBlzdA,iB;MlBkzdO,QkBlzdP,ElBkzdiB,CkBlzdjB,C;;QlBozdd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBx0dA,iB;MlBw0dO,QkBx0dP,ElBw0diB,CkBx0djB,C;;QlB00dd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB91dA,iB;MlB81dO,QkB91dP,ElB81diB,CkB91djB,C;;QlBg2dd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBp3dA,iB;MlBo3dO,QkBp3dP,ElBo3diB,CkBp3djB,C;;QlBs3dd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB14dA,iB;MlB04dO,QkB14dP,ElB04diB,CkB14djB,C;;QlB44dd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBh6dA,iB;MlBg6dO,QkBh6dP,ElBg6diB,CkBh6djB,C;;QlBk6dd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBt7dA,iB;MlBs7dO,QkBt7dP,ElBs7diB,CkBt7djB,C;;QlBw7dd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB58dA,iB;MlB48dO,QkB58dP,ElB48diB,CkB58djB,C;;QlB88dd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBl+dA,iB;MlBk+dO,QkBl+dP,ElBk+diB,CkBl+djB,C;;QlBo+dd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBx/dA,iB;MlBw/dO,QkBx/dP,ElBw/diB,CkBx/djB,C;;QlB0/dd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB9geA,iB;MlB8geO,QkB9geP,ElB8geiB,CkB9gejB,C;;QlBghed,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBpieA,iB;MlBoieO,QkBpiePlBoieiB,CkBpiejB,C;;QlBsied,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB1jeA,iB;MlB0jeO,QkB1jeP,ElB0jeiB,CkB1jejB,C;;QlB4jed,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBhleA,iB;MlBgleO,QkBhleP,ElBgleiB,CkBhlejB,C;;QlBkled,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBtmeA,iB;MlBsmeO,QkBtmeP,ElBsmeiB,CkBtmejB,C;;QlBwmed,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB5neA,iB;MlB4neO,QkB5nePlB4neiB,CkB5nejB,C;;QlB8ned,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBlpeA,iB;MlBkpeO,QkBlpeP,ElBkpeiB,CkBlpejB,C;;QlBoped,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBxqeA,iB;MlBwqeO,QkBxqeP,ElBwqeiB,CkBxqejB,C;;QlB0qed,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB9reA,iB;MlB8reO,QkB9reP,ElB8reiB,CkB9rejB,C;;QlBgsed,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBptfA,iB;MlBotfO,QkBptfP,ElBotfiB,CkBptfjB,C;;QlBstfd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB1ufA,iB;MlB0ufO,QkB1ufP,ElB0ufiB,CkB1ufjB,C;;QlB4ufd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBhvfA,iB;MlBgvfO,QkBhvfP,ElBgvfiB,CkBhvfjB,C;;QlBkvfd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBtwfA,iB;MlBswfO,QkBtwfP,ElBswfiB,CkBtwfjB,C;;QlBwwfd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB5xfA,iB;MlB4xfO,QkB5xfP,ElB4xfiB,CkB5xfjB,C;;QlB8xfd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBlzfA,iB;MlBkzfO,QkBlzfP,ElBkzfiB,CkBlzfjB,C;;QlBozfd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBx0fA,iB;MlBw0fO,QkBx0fP,ElBw0fiB,CkBx0fjB,C;;QlB00fd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB91fA,iB;MlB81fO,QkB91fP,ElB81fiB,CkB91fjB,C;;QlBg2fd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBp3fA,iB;MlBo3fO,QkBp3fP,ElBo3fiB,CkBp3fjB,C;;QlBs3fd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB14fA,iB;MlB04fO,QkB14fP,ElB04fiB,CkB14fjB,C;;QlB44fd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBh6fA,iB;MlBg6fO,QkBh6fP,ElBg6fiB,CkBh6fjB,C;;QlBk6fd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBt7fA,iB;MlBs7fO,QkBt7fP,ElBs7fiB,CkBt7fjB,C;;QlBw7fd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB58fA,iB;MlB48fO,QkB58fP,ElB48fiB,CkB58fjB,C;;QlB88fd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBl+fA,iB;MlBk+fO,QkBl+fP,ElBk+fiB,CkBl+fjB,C;;QlBo+fd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBx/fA,iB;MlBw/fO,QkBx/fP,ElBw/fiB,CkBx/fjB,C;;QlB0/fd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB9ggBA,iB;MlB8ggBO,QkB9ggBP,ElB8ggBiB,CkB9ggBjB,C;;QlBghgBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBpigBA,iB;MlBoigBO,QkBpigBP,ElBoigBiB,CkBpigBjB,C;;QlBsigBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB1jgBA,iB;MlB0jgBO,QkB1jgBP,ElB0jgBiB,CkB1jgBjB,C;;QlB4jgBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBhlgBA,iB;MlBglgBO,QkBhlgBP,ElBglgBiB,CkBhlgBjB,C;;QlBklgBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBtmgBA,iB;MlBsmgBO,QkBtmgBP,ElBsmgBiB,CkBtmgBjB,C;;QlBwmgBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB5ngBA,iB;MlB4ngBO,QkB5ngBP,ElB4ngBiB,CkB5ngBjB,C;;QlB8ngBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBlpgBA,iB;MlBkpgBO,QkBlpgBP,ElBkpgBiB,CkBlpgBjB,C;;QlBopgBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBxqgBA,iB;MlBwqgBO,QkBxqgBP,ElBwqgBiB,CkBxqgBjB,C;;QlB0qgBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB9rgBA,iB;MlB8rgBO,QkB9rgBP,ElB8rgBiB,CkB9rgBjB,C;;QlBgsgBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBptgBA,iB;MlBotgBO,QkBptgBP,ElBotgBiB,CkBptgBjB,C;;QlBstgBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB1ugBA,iB;MlB0ugBO,QkB1ugBP,ElB0ugBiB,CkB1ugBjB,C;;QlB4ugBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBhvgBA,iB;MlBgvgBO,QkBhvgBP,ElBgvgBiB,CkBhvgBjB,C;;QlBkvgBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBtwgBA,iB;MlBswgBO,QkBtwgBP,ElBswgBiB,CkBtwgBjB,C;;QlBwwgBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB5xgBA,iB;MlB4xgBO,QkB5xgBP,ElB4xgBiB,CkB5xgBjB,C;;QlB8xgBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBlzgBA,iB;MlBkzgBO,QkBlzgBP,ElBkzgBiB,CkBlzgBjB,C;;QlBozgBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBx0gBA,iB;MlBw0gBO,QkBx0gBP,ElBw0gBiB,CkBx0gBjB,C;;QlB00gBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB91gBA,iB;MlB81gBO,QkB91gBP,ElB81gBiB,CkB91gBjB,C;;QlBg2gBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBp3gBA,iB;MlBo3gBO,QkBp3gBP,ElBo3gBiB,CkBp3gBjB,C;;QlBs3gBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB14gBA,iB;MlB04gBO,QkB14gBP,ElB04gBiB,CkB14gBjB,C;;QlB44gBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBh6gBA,iB;MlBg6gBO,QkBh6gBP,ElBg6gBiB,CkBh6gBjB,C;;QlBk6gBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBt7gBA,iB;MlBs7gBO,QkBt7gBP,ElBs7gBiB,CkBt7gBjB,C;;QlBw7gBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB58gBA,iB;MlB48gBO,QkB58gBP,ElB48gBiB,CkB58gBjB,C;;QlB88gBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBl+gBA,iB;MlBk+gBO,QkBl+gBP,ElBk+gBiB,CkBl+gBjB,C;;QlBo+gBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBx/gBA,iB;MlBw/gBO,QkBx/gBP,ElBw/gBiB,CkBx/gBjB,C;;QlB0/gBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB9ghBA,iB;MlB8ghBO,QkB9ghBP,ElB8ghBiB,CkB9ghBjB,C;;QlBgihBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBpihBA,iB;MlBoihBO,QkBpihBP,ElBoihBiB,CkBpihBjB,C;;QlBsihBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB1jhBA,iB;MlB0jhBO,QkB1jhBP,ElB0jhBiB,CkB1jhBjB,C;;QlB4jhBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBhlhBA,iB;MlBglhBO,QkBhlhBP,ElBglhBiB,CkBhlhBjB,C;;QlBklhBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBtmhBA,iB;MlBsmhBO,QkBtmhBP,ElBsmhBiB,CkBtmhBjB,C;;QlBwmhBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB5nhBA,iB;MlB4nhBO,QkB5nhBP,ElB4nhBiB,CkB5nhBjB,C;;QlB8nhBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBlphBA,iB;MlBkphBO,QkBlphBP,ElBkphBiB,CkBlphBjB,C;;QlBophBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBxqhBA,iB;MlBwqhBO,QkBxqhBP,ElBwqhBiB,CkBxqhBjB,C;;QlB0qhBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB9rhBA,iB;MlB8rhBO,QkB9rhBP,ElB8rhBiB,CkB9rhBjB,C;;QlBgshBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBpthBA,iB;MlBothBO,QkBpthBP,ElBothBiB,CkBpthBjB,C;;QlBsthBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB1uhBA,iB;MlB0uhBO,QkB1uhBP,ElB0uhBiB,CkB1uhBjB,C;;QlB4uhBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBhvhBA,iB;MlBgvhBO,QkBhvhBP,ElBgvhBiB,CkBhvhBjB,C;;QlBkvhBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBtwhBA,iB;MlBswhBO,QkBtwhBP,ElBswhBiB,CkBtwhBjB,C;;QlBwwhBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB5xhBA,iB;MlB4xhBO,QkB5xhBP,ElB4xhBiB,CkB5xhBjB,C;;QlB8xhBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBlzhBA,iB;MlBkzhBO,QkBlzhBP,ElBkzhBiB,CkBlzhBjB,C;;QlBozhBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBx0hBA,iB;MlBw0hBO,QkBx0hBP,ElBw0hBiB,CkBx0hBjB,C;;QlB00hBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB91hBA,iB;MlB81hBO,QkB91hBP,ElB81hBiB,CkB91hBjB,C;;QlBg2hBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBp3hBA,iB;MlBo3hBO,QkBp3hBP,ElBo3hBiB,CkBp3hBjB,C;;QlBs3hBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB14iBA,iB;MlB04iBO,QkB14iBP,ElB04iBiB,CkB14iBjB,C;;QlB44iBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBh6iBA,iB;MlBg6iBO,QkBh6iBP,ElBg6iBiB,CkBh6iBjB,C;;QlBk6iBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBt7iBA,iB;MlBs7iBO,QkBt7iBP,ElBs7iBiB,CkBt7iBjB,C;;QlBw7iBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB58iBA,iB;MlB48iBO,QkB58iBP,ElB48iBiB,CkB58iBjB,C;;QlB88iBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBl+iBA,iB;MlBk+iBO,QkBl+iBP,ElBk+iBiB,CkBl+iBjB,C;;QlBo+iBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBx/iBA,iB;MlBw/iBO,QkBx/iBP,ElBw/iBiB,CkBx/iBjB,C;;QlB0/iBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB9gjBA,iB;MlB8gjBO,QkB9gjBP,ElB8gjBiB,CkB9gjBjB,C;;QlBghjBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBpijBA,iB;MlBoijBO,QkBpijBP,ElBoijBiB,CkBpijBjB,C;;QlBsijBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB1jjBA,iB;MlB0jjBO,QkB1jjBP,ElB0jjBiB,CkB1jjBjB,C;;QlB4jjBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBhljBA,iB;MlBgljBO,QkBhljBP,ElBgljBiB,CkBhljBjB,C;;QlBkljBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBtmjBA,iB;MlBsmjBO,QkBtmjBP,ElBsmjBiB,CkBtmjBjB,C;;QlBwmjBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB5njBA,iB;MlB4njBO,QkB5njBP,ElB4njBiB,CkB5njBjB,C;;QlB8njBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBlpjBA,iB;MlBkpjBO,QkBlpjBP,ElBkpjBiB,CkBlpjBjB,C;;QlBopjBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBxqjBA,iB;MlBwqjBO,QkBxqjBP,ElBwqjBiB,CkBxqjBjB,C;;QlB0qjBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB9rjBA,iB;MlB8rjBO,QkB9rjBP,ElB8rjBiB,CkB9rjBjB,C;;QlBgsjBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBptjBA,iB;MlBotjBO,QkBptjBP,ElBotjBiB,CkBptjBjB,C;;QlBstjBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB1ujBA,iB;MlB0ujBO,QkB1ujBP,ElB0ujBiB,CkB1ujBjB,C;;QlB4ujBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBhvjBA,iB;MlBgvjBO,QkBhvjBP,ElBgvjBiB,CkBhvjBjB,C;;QlBkvjBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBtwjBA,iB;MlBswjBO,QkBtwjBP,ElBswjBiB,CkBtwjBjB,C;;QlBwwjBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB5xjBA,iB;MlB4xjBO,QkB5xjBP,ElB4xjBiB,CkB5xjBjB,C;;QlB8xjBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBlzjBA,iB;MlBkzjBO,QkBlzjBP,ElBkzjBiB,CkBlzjBjB,C;;QlBozjBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBx0jBA,iB;MlBw0jBO,QkBx0jBP,ElBw0jBiB,CkBx0jBjB,C;;QlB00jBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB91jBA,iB;MlB81jBO,QkB91jBP,ElB81jBiB,CkB91jBjB,C;;QlBg2jBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBp3jBA,iB;MlBo3jBO,QkBp3jBP,ElBo3jBiB,CkBp3jBjB,C;;QlBs3jBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB14kBA,iB;MlB04kBO,QkB14kBP,ElB04kBiB,CkB14kBjB,C;;QlB44kBd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBh6kBA,iB;MlBg6k

/bd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MAAA,sC;QAaiB,Q;QAFb,IA/2MO,qBAAQ,CA
+2Mf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UAC
I,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO
,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MAAA,sC;QAaiB,Q;QAFb,IA73MO,qBAAQ,CA63Mf,C;U
AAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,S
AAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAn
BX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MAAA,sC;QAaiB,Q;QAFb,IA34MO,qBAAQ,CA24Mf,C;UAAe,MAA
M,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAA
K,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;mFA
sBA,yB;MAAA,sE;MAAA,8D;MAAA,sC;QAaiB,Q;QAFb,IAz5MO,qBAAQ,CAy5Mf,C;UAAe,MAAM,6B;QAC
rB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,C
AAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;M
AAA,sE;MAAA,8D;MAAA,sC;QAaiB,Q;QAFb,IAv6MO,qBAAQ,CAu6Mf,C;UAAe,MAAM,6B;QACrB,eAAe,S
AAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;U
ACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;
MAAA,8D;MAAA,sC;QAaiB,Q;QAFb,IAr7MO,qBAAQ,CAq7Mf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UA
AK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAA
I,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D
;MAAA,sC;QAaiB,Q;QAFb,IAn8MO,qBAAQ,CAm8Mf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL
,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,
CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MAAA,s
C;QAaiB,Q;QAFb,IAj9MO,qBAAQ,CAi9Mf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;
QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,K
AAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,oC;MAAA,8D;MAAA,
sC;QAaiB,Q;QAFb,IA/9MO,qBAAQ,CA+9Mf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,EAAT,
C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,EAAT,C;UACR,IAAI,2BAAW,CAAX,
KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;4FAsBA,yB;MAAA,8D;MkBlscA,iB;MlBkscA,sC;Q
AaiB,Q;QAFb,IArjNO,qBAAQ,CAqjNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+
B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBzscG,MAAO,KlByscO,QkBz
scP,ElBysciB,CkBzscjB,C;;QlB2scd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBttcA,iB;MlBstcA,sC;QA
aiB,Q;QAFb,IAjkNO,qBAAQ,CAikNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;
QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB7tcG,MAAO,KlB6tcO,QkB7tc
P,ElB6tciB,CkB7tcjB,C;;QlB+tcd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkB1ucA,iB;MlB0ucA,sC;QAa
iB,Q;QAFb,IA7kNO,qBAAQ,CA6kNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;
QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBjvcG,MAAO,KlBivcO,QkBjvc
P,ElBivciB,CkBjvcjB,C;;QlBmvcd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkB9vcA,iB;MlB8vcA,sC;QA
aiB,Q;QAFb,IAzlNO,qBAAQ,CAylNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;
QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBrwcG,MAAO,KlBqwcO,QkBr
wcP,ElBqwciB,CkBrwcjB,C;;QlBuwcd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBlxcA,iB;MlBkxcA,sC
;QAaiB,Q;QAFb,IArmNO,qBAAQ,CAqmNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QA
CF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBzxcG,MAAO,KlByxcO,
QkBzxcP,ElByxciB,CkBzxcjB,C;;QlB2xcd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBtycA,iB;MlBsycA
,sC;QAaiB,Q;QAFb,IAjnNO,qBAAQ,CAinNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QA
CF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB7ycG,MAAO,KlB6ycO,
QkB7ycP,ElB6yciB,CkB7ycjB,C;;QlB+ycd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkB1zcA,iB;MlB0zc
A,sC;QAaiB,Q;QAFb,IA7nNO,qBAAQ,CA6nNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;
QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBj0cG,MAAO,KlBi0c
O,QkBj0cP,ElBi0ciB,CkBj0cjB,C;;QlBm0cd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkB90cA,iB;MlB80

cA,sC;QAaiB,Q;QAFb,IAzoNO,qBAAQ,CAyoNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBr1cG,MAAO,KlBq1cO,QkBr1cP,ElBq1ciB,CkBr1cjB,C;;QlBu1cd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,oC;MAAA,8D;MkBl2cA,iB;MlBk2cA,sC;QAaiB,Q;QAFb,IArpNO,qBAAQ,CAqpNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WkBz2cG,MAAO,KlBy2cO,QkBz2cP,ElBy2ciB,CkBz2cjB,C;;QlB22cd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBj4cA,iB;MlBi4cA,sC;QAaiB,Q;QAFb,IAzuNO,qBAAQ,CAyuNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBx4cG,MAAO,KlBw4cO,QkBx4cP,ElBw4ciB,CkBx4cjB,C;;QlB04cd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBh6cA,iB;MlBg6cA,sC;QAaiB,Q;QAFb,IArvNO,qBAAQ,CAqvNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBv6cG,MAAO,KlBu6cO,QkBv6cP,ElBu6ciB,CkBv6cjB,C;;QlBy6cd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkB/7cA,iB;MlB+7cA,sC;QAaiB,Q;QAFb,IAjwNO,qBAAQ,CAiwNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBt8cG,MAAO,KlBs8cO,QkBt8cP,ElBs8ciB,CkBt8cjB,C;;QlBw8cd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkB99cA,iB;MlB89cA,sC;QAaiB,Q;QAFb,IA7wNO,qBAAQ,CA6wNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBr+cG,MAAO,KlBq+cO,QkBr+cP,ElBq+ciB,CkBr+cjB,C;;QlBu+cd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkB7/cA,iB;MlB6/cA,sC;QAaiB,Q;QAFb,IAnxNO,qBAAQ,CAmxNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBp/cG,MAAO,KlBo/cO,QkBp/cP,ElBo/ciB,CkBp/cjB,C;;QlBs/cd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkB5hdA,iB;MlB4hdA,sC;QAaiB,Q;QAFb,IAzxNO,qBAAQ,CAyxNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBnidG,MAAO,KlBmidO,QkBnidP,ElBmiciB,CkBnidjB,C;;QlBqidd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkB3jdA,iB;MlB2jdA,sC;QAaiB,Q;QAFb,IA7yNO,qBAAQ,CA6yNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBlkdG,MAAO,KlBkkdO,QkBlkdP,ElBkkdiB,CkBlkdjB,C;;QlBokdd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkB1ldA,iB;MlB0ldA,sC;QAaiB,Q;QAFb,IAjzNO,qBAAQ,CAizNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBjmdG,MAAO,KlBimdO,QkBjmdP,ElBimdiB,CkBjmdjB,C;;QlBmmdd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBzndA,iB;MlBymdA,sC;QAaiB,Q;QAFb,IAr0NO,qBAAQ,CAq0Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBhndG,MAAO,KlBgndO,QkBhndP,ElBgndiB,CkBhndjB,C;;QlBkndd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBxodA,iB;MlBwodA,sC;QAaiB,Q;QAFb,IAz0NO,qBAAQ,CAy0Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB/odG,MAAO,KlB+odO,QkB/odP,ElB+odiB,CkB/odjB,C;;QlBipdd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBvpdA,iB;MlBupdA,sC;QAaiB,Q;QAFb,IA71NO,qBAAQ,CA61Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB9pdG,MAAO,KlB8pdO,QkB9pdP,ElB8pdiB,CkB9pdjB,C;;QlBgqdd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBtqdA,iB;MlBsqdA,sC;QAaiB,Q;QAFb,IAj2NO,qBAAQ,CAi2Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB7qdG,MAAO,KlB6qdO,QkB7qdP,ElB6qdiB,CkB7qdjB,C;;QlB+qdd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBrsdA,iB;MlBqsdA,sC;QAaiB,Q;QAFb,IAr2NO,qBAAQ,CAq2Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB5sdG,MAAO,KlB4sdO,QkB5sdP,ElB4sdiB,CkB5sdjB,C;;QlB8sdd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBpudA,iB;MlBoudA,sC;QAaiB,Q;QAFb,IAz2NO,qBAAQ,CAy2Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB3udG,MAAO,KlB2udO,QkB3udP,ElB2udiB,CkB3udjB,C;;QlB6udd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBnvdA,iB;MlBmvdA,sC;QAaiB,Q;QAFb,IA72NO,qBAAQ,CA62Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB1vdG,MAAO,KlB0vdO,QkB1vdP,ElB0vdiB,CkB1vdjB,C;;QlB4vdd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBlwdA,iB;MlBkwdA,sC;QAaiB,Q;QAFb,IAj3NO,qBAAQ,CAi3Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBzwdG,MAAO,KlBywdO,QkBzwdP,ElBywdiB,CkBzwdjB,C;;QlB2wdd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBjxdA,iB;MlBixdA,sC;QAaiB,Q;QAFb,IAr3NO,qBAAQ,CAq3Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBxxdG,MAAO,KlBwxdO,QkBxxdP,ElBwxdiB,CkBxxdjB,C;;QlB0xdd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBhydA,iB;MlBgydA,sC;QAaiB,Q;QAFb,IAz3NO,qBAAQ,CAy3Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBvydG,MAAO,KlBuydO,QkBvydP,ElBuydiB,CkBvydjB,C;;QlBydd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkB9zdA,iB;MlB8zdA,sC;QAaiB,Q;QAFb,IA74NO,qBAAQ,CA64Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBr0dG,MAAO,KlBq0dO,QkBr0dP,ElBq0diB,CkBr0djB,C;;QlBu0dd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkB51dA,iB;MlB41dA,sC;QAaiB,Q;QAFb,IAj5NO,qBAAQ,CAi5Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBn2dG,MAAO,KlBm2dO,QkBn2dP,ElBm2diB,CkBn2djB,C;;QlBq2dd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkB13dA,iB;MlB03dA,sC;QAaiB,Q;QAFb,IAr5NO,qBAAQ,CAq5Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBj4dG,MAAO,KlBi4dO,QkBj4dP,ElBi4diB,CkBj4djB,C;;QlBm4dd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBx5dA,iB;MlBw5dA,sC;QAaiB,Q;QAFb,IAz5NO,qBAAQ,CAy5Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB75dG,MAAO,KlB65dO,QkB75dP,ElB65diB,CkB75djB,C;;QlB+5dd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBp7dA,iB;MlBo7dA,sC;QAaiB,Q;QAFb,IA76NO,qBAAQ,CA66Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBz7dG,MAAO,KlBy7dO,QkBz7dP,ElBy7diB,CkBz7djB,C;;QlB27dd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBh9dA,iB;MlBg9dA,sC;QAaiB,Q;QAFb,IAj7NO,qBAAQ,CAi7Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBr9dG,MAAO,KlBq9dO,QkBr9dP,ElBq9diB,CkBr9djB,C;;QlBu9dd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkB5+dA,iB;MlB4+dA,sC;QAaiB,Q;QAFb,IAr7NO,qBAAQ,CAq7Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBj/dG,MAAO,KlBi/dO,QkBj/dP,ElBi/diB,CkBj/djB,C;;QlBm/dd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBx/dA,iB;MlBw/dA,sC;QAaiB,Q;QAFb,IAz7NO,qBAAQ,CAy7Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB7/dG,MAAO,KlB6/dO,QkB7/dP,ElB6/diB,CkB7/djB,C;;QlB+/dd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBphdA,iB;MlBohdA,sC;QAaiB,Q;QAFb,IA77NO,qBAAQ,CA67Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBzhdG,MAAO,KlByhdO,QkBzhdP,ElByhdiB,CkBzhdjB,C;;QlB2hdd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBhjdA,iB;MlBgjdA,sC;QAaiB,Q;QAFb,IAj8NO,qBAAQ,CAi8Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBrjdG,MAAO,KlBqjdO,QkBrjdP,ElBqjdiB,CkBrjdjB,C;;QlBujdd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkB5kdA,iB;MlB4kdA,sC;QAaiB,Q;QAFb,IAr8NO,qBAAQ,CAq8Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBjldG,MAAO,KlBildO,QkBjldP,ElBildiB,CkBjldjB,C;;QlBmldd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBxmdA,iB;MlBwmdA,sC;QAaiB,Q;QAFb,IAz8NO,qBAAQ,CAy8Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB7mdG,MAAO,KlB6mdO,QkB7mdP,ElB6mdiB,CkB7mdjB,C;;QlB+mdd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBpodA,iB;MlBoodA,sC;QAaiB,Q;QAFb,IA79NO,qBAAQ,CA69Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBzodG,MAAO,KlBydO,QkBzodP,ElBydiB,CkBzodjB,C;;QlB2odd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBhqdA,iB;MlBgqdA,sC;QAaiB,Q;QAFb,IAj+NO,qBAAQ,CAi+Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBrqdG,MAAO,KlBqqdO,QkBrqdP,ElBqqdiB,CkBrqdjB,C;;QlBuqdd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkB5rdA,iB;MlB4rdA,sC;QAaiB,Q;QAFb,IAr+NO,qBAAQ,CAq+Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBjsdG,MAAO,KlBisdO,QkBjsdP,ElBisdiB,CkBjsdjB,C;;QlBmsdd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBxtdA,iB;MlBwtdA,sC;QAaiB,Q;QAFb,IAz+NO,qBAAQ,CAy+Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB7tdG,MAAO,KlB6tdO,QkB7tdP,ElB6tdiB,CkB7tdjB,C;;QlB+tdd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBpvdA,iB;MlBovdA,sC;QAaiB,Q;QAFb,IA7+NO,qBAAQ,CA6+Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBzvdG,MAAO,KlByvdO,QkBzvdP,ElByvdiB,CkBzvdjB,C;;QlB2vdd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBhxdA,iB;MlBgxdA,sC;QAaiB,Q;QAFb,IAj/NO,qBAAQ,CAi/Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBrxdG,MAAO,KlBqxdO,QkBrxdP,ElBqxdiB,CkBrxdjB,C;;QlBuxdd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkB5ydA,iB;MlB4ydA,sC;QAaiB,Q;QAFb,IAr/NO,qBAAQ,CAq/Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBjzdG,MAAO,KlBizdO,QkBjzdP,ElBizdiB,CkBjzdjB,C;;QlBmzdd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBx0dA,iB;MlBw0dA,sC;QAaiB,Q;QAFb,IAz/NO,qBAAQ,CAy/Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB70dG,MAAO,KlB60dO,QkB70dP,ElB60diB,CkB70djB,C;;QlB+0dd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBp2dA,iB;MlBo2dA,sC;QAaiB,Q;QAFb,IA7/NO,qBAAQ,CA6/Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBz2dG,MAAO,KlBy2dO,QkBz2dP,ElBy2diB,CkBz2djB,C;;QlB22dd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBh4dA,iB;MlBg4dA,sC;QAaiB,Q;QAFb,IAjgOO,qBAAQ,CAigOf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBr4dG,MAAO,KlBq4dO,QkBr4dP,ElBq4diB,CkBr4djB,C;;QlBu4dd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkB55dA,iB;MlB45dA,sC;QAaiB,Q;QAFb,IArgOO,qBAAQ,CAqgOf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBj6dG,MAAO,KlBi6dO,QkBj6dP,ElBi6diB,CkBj6djB,C;;QlBm6dd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBx7dA,iB;MlBw7dA,sC;QAaiB,Q;QAFb,IAzgOO,qBAAQ,CAygOf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB77dG,MAAO,KlB67dO,QkB77dP,ElB67diB,CkB77djB,C;;QlB+7dd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBp9dA,iB;MlBo9dA,sC;QAaiB,Q;QAFb,IA7gOO,qBAAQ,CA6gOf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBz9dG,MAAO,KlBy9dO,QkBz9dP,ElBy9diB,CkBz9djB,C;;QlB29dd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBh/dA,iB;MlBg/dA,sC;QAaiB,Q;QAFb,IAjhOO,qBAAQ,CAihOf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBr/dG,MAAO,KlBq/dO,QkBr/dP,ElBq/diB,CkBr/djB,C;;QlBu/dd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkB5gdA,iB;MlB4gdA,sC;QAaiB,Q;QAFb,IArhOO,qBAAQ,CAqhOf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBjhdG,MAAO,KlBihdO,QkBjhdP,ElBihdiB,CkBjhdjB,C;;QlBmhdd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBxidA,iB;MlBwidA,sC;QAaiB,Q;QAFb,IAzhOO,qBAAQ,CAyhOf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB7idG,MAAO,KlB6idO,QkB7idP,ElB6idiB,CkB7idjB,C;;QlB+idd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBpjdA,iB;MlBojdA,sC;QAaiB,Q;QAFb,IA7hOO,qBAAQ,CA6hOf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBzjdG,MAAO,KlByjdO,QkBzjdP,ElByjdiB,CkBzjdjB,C;;QlB2jdd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBhkdA,iB;MlBgkdA,sC;QAaiB,Q;QAFb,IAjiOO,qBAAQ,CAiiOf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBrkdG,MAAO,KlBqkdO,QkBrkdP,ElBqkdiB,CkBrkdjB,C;;QlBukdd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkB5ldA,iB;MlB4ldA,sC;QAaiB,Q;QAFb,IAriOO,qBAAQ,CAqiOf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBjldG,MAAO,KlBildO,QkBjldP,ElBildiB,CkBjldjB,C;;QlBmldd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBxmdA,iB;MlBwmdA,sC;QAaiB,Q;QAFb,IAziOO,qBAAQ,CAyiOf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB7mdG,MAAO,KlB6mdO,QkB7mdP,ElB6mdiB,CkB7mdjB,C;;QlB+mdd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBpndA,iB;MlBondA,sC;QAaiB,Q;QAFb,IA7iOO,qBAAQ,CA6iOf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBzndG,MAAO,KlBydO,QkBzndP,ElBydiB,CkBzndjB,C;;QlB2ndd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBhodA,iB;MlBgodA,sC;QAaiB,Q;QAFb,IAjjOO,qBAAQ,CAijOf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBrodG,MAAO,KlBqodO,QkBrodP,ElBqodiB,CkBrodjB,C;;QlBuodd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkB5pdA,iB;MlB4pdA,sC;QAaiB,Q;QAFb,IArjOO,qBAAQ,CAqjOf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBjpdG,MAAO,KlBipdO,QkBjpdP,ElBipdiB,CkBjpdjB,C;;QlBmpdd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBxqdA,iB;MlBwqdA,sC;QAaiB,Q;QAFb,IAzjOO,qBAAQ,CAyjOf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB7qdG,MAAO,KlB6qdO,QkB7qdP,ElB6qdiB,CkB7qdjB,C;;QlB+qdd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBprdA,iB;MlBordA,sC;QAaiB,Q;QAFb,IA7jOO,qBAAQ,CA6jOf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBzrdG,MAAO,KlByrdO,QkBzrdP,ElByrdiB,CkBzrdjB,C;;QlB2rdd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBhsdA,iB;MlBgsdA,sC;QAaiB,Q;QAFb,IAjkOO,qBAAQ,CAikOf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBrsdG,MAAO,KlBqsdO,QkBrsdP,ElBqsdiB,CkBrsdjB,C;;QlBusdd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkB5tdA,iB;MlB4tdA,sC;QAaiB,Q;QAFb,IArkOO,qBAAQ,CAqkOf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBjtdG,MAAO,KlBitdO,QkBjtdP,ElBitdiB,CkBjtdjB,C;;QlBmtdd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBxudA,iB;MlBwudA,sC;QAaiB,Q;QAFb,IAzkOO,qBAAQ,CAykOf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB7udG,MAAO,KlB6udO,QkB7udP,ElB6udiB,CkB7udjB,C;;QlB+udd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBpvdA,iB;MlBovdA,sC;QAaiB,Q;QAFb,IA7kOO,qBAAQ,CA6kOf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBzvdG,MAAO,KlByvdO,QkBzvdP,ElByvdiB,CkBzvdjB,C;;QlB2vdd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBhwdA,iB;MlBgwdA,sC;QAaiB,Q;QAFb,IAjlOO,qBAAQ,CAilOf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBrwdG,MAAO,KlBqwdO,QkBrwdP,ElBqwdiB,CkBrwdjB,C;;QlBuwdd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkB5xdA,iB;MlB4xdA,sC;QAaiB,Q;QAFb,IArlOO,qBAAQ,CAqlOf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBjxdG,MAAO,KlBixdO,QkBjxdP

CtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,
CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;M
AAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAn+NO,qBAAQ,CAm+Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,
CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2B
AAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QA
WiB,Q;QAFb,IA/+NO,qBAAQ,CA++Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+
B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;Y
ACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,oC;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,
IA3/NO,qBAAQ,CA2/Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAA
U,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,EAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,
C;;QAGnB,OAAO,Q;O;KAjBX,C;wFAoBA,yB;MAAA,sE;MAAA,8D;MAAA,kD;QAaiB,Q;QAFb,IAjlOO,qBAA
Q,CAilOf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;
UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC
,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;0FAsBA,yB;MAAA,sE;MAAA,8D;MAAA,kD;QAa
iB,Q;QAFb,IA/lOO,qBAAQ,CA+lOf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+
B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAA
kB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;0FAsBA,yB;MAAA,sE;
MAAA,8D;MAAA,kD;QAaiB,Q;QAFb,IA7mOO,qBAAQ,CA6mOf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,U
AAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IA
AI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAn
BX,C;0FAsBA,yB;MAAA,sE;MAAA,8D;MAAA,kD;QAaiB,Q;QAFb,IA3nOO,qBAAQ,CA2nOf,C;UAAe,MAA
M,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAA
K,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,
C;;QAGnB,OAAO,Q;O;KAnBX,C;0FAsBA,yB;MAAA,sE;MAAA,8D;MAAA,kD;QAaiB,Q;QAFb,IAzoOO,qBA
AQ,CAyoOf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,i
B;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAA
kC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;0FAsBA,yB;MAAA,sE;MAAA,8D;MAAA,kD;Q
AaiB,Q;QAFb,IAvpOO,qBAAQ,CAupOf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QAC
F,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,E
AAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;0FAsBA,yB;MAAA,s
E;MAAA,8D;MAAA,kD;QAaiB,Q;QAFb,IArqOO,qBAAQ,CAqqOf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,U
AAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IA
AI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAn
BX,C;0FAsBA,yB;MAAA,sE;MAAA,8D;MAAA,kD;QAaiB,Q;QAFb,IAnrOO,qBAAQ,CAmrOf,C;UAAe,MAA
M,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAA
K,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,
C;;QAGnB,OAAO,Q;O;KAnBX,C;0FAsBA,yB;MAAA,sE;MAAA,oC;MAAA,8D;MAAA,kD;QAaiB,Q;QAFb,IA
jsOO,qBAAQ,CAisOf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAA
U,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,EAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,C
AAX,GAAkC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;oGAsBA,yB;MAAA,8D;MAAA,kD;Q
AWiB,Q;QAFb,IArxOO,qBAAQ,CAqxOf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,
+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EA
AkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;sGAoBA,yB;MAAA,8
D;MAAA,kD;QAWiB,Q;QAFb,IAjyOO,qBAAQ,CAiyOf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,C
AAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SA
AQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;sGAoBA
,yB;MAAA,8D;MAAA,kD;QAWiB,Q;QAFb,IA7yOO,qBAAQ,CA6yOf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,U
AAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IA

AI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAj
BX,C;sGAoBA,yB;MAAA,8D;MAAA,kD;QAWiB,Q;QAFb,IAzzOO,qBAAQ,CAyzOf,C;UAAe,OAAO,I;QACtB,
eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAA
T,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;QAGnB,O
AAO,Q;O;KAjBX,C;sGAoBA,yB;MAAA,8D;MAAA,kD;QAWiB,Q;QAFb,IAr0OO,qBAAQ,CAq0Of,C;UAAe,O
AAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UA
AK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAA
W,C;;QAGnB,OAAO,Q;O;KAjBX,C;sGAoBA,yB;MAAA,8D;MAAA,kD;QAWiB,Q;QAFb,IAj1OO,qBAAQ,CAi
1Of,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QA
AQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C
;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;sGAoBA,yB;MAAA,8D;MAAA,kD;QAWiB,Q;QAFb,IA71OO
,qBAAQ,CA61Of,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAA
V,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,G
AAkC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;sGAoBA,yB;MAAA,8D;MAAA,kD;QAWiB,
Q;QAFb,IAz2OO,qBAAQ,CAy2Of,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;Q
AAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,
CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;sGAoBA,yB;MAAA,oC;MA
AA,8D;MAAA,kD;QAWiB,Q;QAFb,IAr3OO,qBAAQ,CAq3Of,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,C
AAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,EAAT,C;UACR,IAAI,UA
AW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;I
AoBA,8B;MASiB,Q;MAFb,IAv8OO,qBAAQ,CAu8Of,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MAC
G,+B;MAAb,aAAU,CAAV,iB;QACI,QAAQ,kB3leG,MAAO,KlB2leE,GkB3leF,ElB2le
O,CkB3leP,C;;MlB6led,OAAO,G;K;IAGX,gC;MASiB,Q;MAFb,IAv9OO,qBAAQ,CAu9Of,C;QAAe,OAAO,I;MA
CtB,UAAU,UAAK,CAAL,C;MACG,+B;MAAb,aAAU,CAAV,iB;QACI,QAAQ,kBtneG,MAAO,KlBsneE,GkBtneF,E
lBsneO,CkBtneP,C;;MlBwned,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAr+OO,qBAAQ,CAq+Of,C;UAAe,O
AAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,+B;MAAb,aAAU,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,
C;QACR,IAAI,sBAAM,CAAN,KAAJ,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IA3
+OO,qBAAQ,CA2+Of,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,
QAAQ,SAAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,
gC;MAOiB,Q;MAFb,IAj/OO,qBAAQ,CAi/Of,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAA
b,aAAU,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MA
EvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAv/OO,qBAAQ,CAu/Of,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,
CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CA
AV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IA7/OO,qBAAQ,CA6/Of,C;UAAe,O
AAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,
C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAngPO,qBA
AQ,CAmgPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,S
AAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MA
OiB,Q;MAFb,IAzgPO,qBAAQ,CAygPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAA
U,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,
OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IA/gPO,qBAAQ,CA+gPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,
CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CA
AV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAnhPO,qBAAQ,CAmhPf,C;UAAe,O
AAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,
C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAvhPO,qBA
AQ,CAuhPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,S
AAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MA
OiB,Q;MAFb,IA3hPO,qBAAQ,CA2hPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAA
U,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,
OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IA/hPO,qBAAQ,CA+hPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,
CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CA
AV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAniPO,qBAAQ,CAmiPf,C;UAAe,O
AAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,
C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAviPO,qBA
AQ,CAuiPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,S
AAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MA
OiB,Q;MAFb,IA3iPO,qBAAQ,CA2iPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAA
U,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,
OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IA/iPO,qBAAQ,CA+iPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,
CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CA
AV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAnjPO,qBAAQ,CAmjPf,C;UAAe,O
AAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,
C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAvjPO,qBA
AQ,CAujPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,S
AAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MA
OiB,Q;MAFb,IA3jPO,qBAAQ,CA2jPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAA
U,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,
OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IA/jPO,qBAAQ,CA+jPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,
CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CA
AV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAnkPO,qBAAQ,CAmkPf,C;UAAe,O
AAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,
C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAvkPO,qBA
AQ,CAukPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,S
AAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MA
OiB,Q;MAFb,IA3kPO,qBAAQ,CA2kPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAA
U,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,
OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IA/kPO,qBAAQ,CA+kPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,
CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CA
AV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAnlPO,qBAAQ,CAmlPf,C;UAAe,O
AAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,
C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAvlPO,qBA
AQ,CAulPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,S
AAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MA
OiB,Q;MAFb,IA3lPO,qBAAQ,CA2lPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAA
U,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,
OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IA/lPO,qBAAQ,CA+lPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,
CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CA
AV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAnmPO,qBAAQ,CAmmPf,C;UAAe,O
AAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,
C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAvmPO,qBA
AQ,CAumPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,S
AAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MA
OiB,Q;MAFb,IA3mPO,qBAAQ,CA2mPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAA
U,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,
OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IA/mPO,qBAAQ,CA+mPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,
CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CA
AV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAnnPO,qBAAQ,CAmnPf,C;UAAe,O
AAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,
C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAvnPO,qBA
AQ,CAunPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,S
AAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MA
OiB,Q;MAFb,IA3nPO,qBAAQ,CA2nPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAA
U,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,
OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IA/nPO,qBAAQ,CA+nPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,
CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CA
AV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAnoPO,qBAAQ,CAmoPf,C;UAAe,O
AAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,
C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAvoPO,qBA
AQ,CAuoPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,S
AAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MA
OiB,Q;MAFb,IA3oPO,qBAAQ,CA2oPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAA
U,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,
OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IA/oPO,qBAAQ,CA+oPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,
CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CA
AV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAnpPO,qBAAQ,CAmpPf,C;UAAe,O
AAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,
C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAvpPO,qBA
AQ,CAupPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,S
AAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MA
OiB,Q;MAFb,IA3pPO,qBAAQ,CA2pPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAA
U,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,
OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IA/pPO,qBAAQ,CA+pPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,
CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CA
AV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAnqPO,qBAAQ,CAmqPf,C;UAAe,O
AAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,
C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAvqPO,qBA
AQ,CAuqPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,S
AAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MA
OiB,Q;MAFb,IA3qPO,qBAAQ,CA2qPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAA
U,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,
OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IA/qPO,qBAAQ,CA+qPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,
CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CA
AV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAnrPO,qBAAQ,CAmrPf,C;UAAe,O
AAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,
C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAvrPO,qBA
AQ,CAurPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,S
AAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MA
OiB,Q;MAFb,IA3rPO,qBAAQ,CA2rPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAA
U,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,
OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IA/rPO,qBAAQ,CA+rPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,
CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CA
AV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAnsPO,qBAAQ,CAmsPf,C;UAAe,O
AAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,
C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAvsPO,qBA
AQ,CAusPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,S
AAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MA
OiB,Q;MAFb,IA3sPO,qBAAQ,CA2sPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAA
U,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,
OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IA/sPO,qBAAQ,CA+sPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,
CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CA
AV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAntPO,qBAAQ,CAmtPf,C;UAAe,O
AAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,
C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAvtPO,qBA
AQ,CAutPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,S
AAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MA
OiB,Q;MAFb,IA3tPO,qBAAQ,CA2tPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAA
U,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,
OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IA/tPO,qBAAQ,CA+tPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,
CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CA
AV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAnuPO,qBAAQ,CAmuPf,C;UAAe,O
AAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,
C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAvuPO,qBA
AQ,CAuuPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,S
AAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MA
OiB,Q;MAFb,IA3uPO,qBAAQ,CA2uPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAA
U,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,
OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IA/uPO,qBAAQ,CA+uPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,
CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CA
AV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAnvPO,qBAAQ,CAmvPf,C;UAAe,O
AAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,
C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAvvPO,qBA
AQ,CAuvPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,S
AAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MA
OiB,Q;MAFb,IA3vPO,qBAAQ,CA2vPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAA
U,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,
OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IA/vPO,qBAAQ,CA+vPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,
CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CA
AV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAnwPO,qBAAQ,CAmwPf,C;UAAe,O
AAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,
C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAvwPO,qBA
AQ,CAuwPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,S
AAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MA
OiB,Q;MAFb,IA3wPO,qBAAQ,CA2wPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAA
U,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,
OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IA/wPO,qBAAQ,CA+wPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,
CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CA
AV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAnxPO,qBAAQ,CAmxPf,C;UAAe,O
AAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,SAAS,UAAK,CAAL,CAAT,
C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAvxPO,qBA
AQ,CAuxPf,C;UAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,S
AAS,UAAK,CAAL,CAAT,C;QACR,IAAI,MAAM,CAAV,iB;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MA
OiB,Q;MAFb,IA3xPO,qBAAQ,CA2xPf,C;UAAe,OAAO,I;MACtB,UAAU,

A6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IArpPO,qBAAQ,CAqpPf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA3pPO,qBAAQ,CA2pPf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAjqPO,qBAAQ,CAiqPf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAvqPO,qBAAQ,CAuqPf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA7qPO,qBAAQ,CA6qPf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAnrPO,qBAAQ,CAmrPf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAzrPO,qBAAQ,CAyrPf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA/rPO,qBAAQ,CA+rPf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IArsPO,qBAAQ,CAqsPf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAztPO,qBAAQ,CAytPf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA/tPO,qBAAQ,CA+tPf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAvuPO,qBAAQ,CAuuPf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA/uPO,qBAAQ,CA+uPf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAvvPO,qBAAQ,CAuvPf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA/vPO,qBAAQ,CA+vPf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAvwPO,qBAAQ,CAuwPf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA/wPO,qBAAQ,CA+wPf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAvxPO,qBAAQ,CAuxPf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA/xPO,qBAAQ,CA+xPf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAvyPO,qBAAQ,CAuyPf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA/yPO,qBAAQ,CA+yPf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAvzPO,qBAAQ,CAuzPf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA/zPO,qBAAQ,CA+zPf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAv0PO,qBAAQ,CAu0PR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA/0PO,qBAAQ,CA+0PR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAv1PO,qBAAQ,CAu1PR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA/1PO,qBAAQ,CA+1PR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAv2PO,qBAAQ,CAu2PR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA/2PO,qBAAQ,CA+2PR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAv3PO,qBAAQ,CAu3PR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA/3PO,qBAAQ,CA+3PR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAv4PO,qBAAQ,CAu4PR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA/4PO,qBAAQ,CA+4PR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAv5PO,qBAAQ,CAu5PR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA/5PO,qBAAQ,CA+5PR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAv6PO,qBAAQ,CAu6PR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA/6PO,qBAAQ,CA+6PR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAv7PO,qBAAQ,CAu7PR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA/7PO,qBAAQ,CA+7PR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAv8PO,qBAAQ,CAu8PR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA/8PO,qBAAQ,CA+8PR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAv9PO,qBAAQ,CAu9PR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA/9PO,qBAAQ,CA+9PR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAv+PO,qBAAQ,CAu+PR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA/+PO,qBAAQ,CA++PR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAv/PO,qBAAQ,CAu/PR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA/gQO,qBAAQ,CA+gQR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAvhQO,qBAAQ,CAuhQR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA/hQO,qBAAQ,CA+hQR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAviQO,qBAAQ,CAuiQR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA/iQO,qBAAQ,CA+iQR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAvjQO,qBAAQ,CAujQR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA/jQO,qBAAQ,CA+jQR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAvkQO,qBAAQ,CAukQR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA/kQO,qBAAQ,CA+kQR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAvlQO,qBAAQ,CAulQR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA/lQO,qBAAQ,CA+lQR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAvmQO,qBAAQ,CAumQR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA/mQO,qBAAQ,CA+mQR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAvnQO,qBAAQ,CAunQR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA/nQO,qBAAQ,CA+nQR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAvoQO,qBAAQ,CAuoQR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA/oQO,qBAAQ,CA+oQR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAvpQO,qBAAQ,CAupQR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA/pQO,qBAAQ,CA+pQR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAvqQO,qBAAQ,CAuqQR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA/qQO,qBAAQ,CA+qQR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAvrQO,qBAAQ,CAurQR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA/rQO,qBAAQ,CA+rQR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAvsQO,qBAAQ,CAusQR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA/sQO,qBAAQ,CA+sQR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAvtQO,qBAAQ,CAutQR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA/tQO,qBAAQ,CA+tQR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAvuQO,qBAAQ,CAuuQR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA/uQO,qBAAQ,CA+uQR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAvvQO,qBAAQ,CAuvQR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA/vQO,qBAAQ,CA+vQR,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,

UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAtJe,QAsJP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA5JP,yB;O;KAHJ,C;kFAMA,yB;MA4JA,8D;MA5JA,sC;QAGW,sB;;UAgKP,IA79PO,qBAAQ,CA69Pf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eApKmB,QAoKJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAvKe,QAuKP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA7KP,yB;O;KAHJ,C;kFAMA,yB;MA6KA,8D;MA7KA,sC;QAGW,sB;;UAiLP,IA5+PO,qBAAQ,CA4+Pf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eArLmB,QAqLJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAxLe,QAwLP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA9LP,yB;O;KAHJ,C;kFAMA,yB;MA8LA,8D;MA9LA,sC;QAGW,sB;;UAkMP,IA3/PO,qBAAQ,CA2/Pf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAtMmB,QAsMJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAzMe,QAyMP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA/MP,yB;O;KAHJ,C;kFAMA,yB;MA+MA,8D;MA/MA,sC;QAGW,sB;;UAmNP,IA5gQO,qBAAQ,CA4gQf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAvNmB,QAuNJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QA1Ne,QA0NP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QAhOP,yB;O;KAHJ,C;kFAMA,yB;MAgOA,8D;MAhOA,sC;QAGW,sB;;UAoOP,IA7hQO,qBAAQ,CA6hQf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAxOmB,QAwOJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QA3Oe,QA2OP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QAjPP,yB;O;KAHJ,C;kFAMA,yB;MAiPA,8D;MAjPA,sC;QAGW,sB;;UAqPP,IA9iQO,qBAAQ,CA8iQf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAzPmB,QAyPJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QA5Pe,QA4PP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QAlQP,yB;O;KAHJ,C;kFAMA,yB;MAkQA,8D;MAlQA,sC;QAGW,sB;;UAsQP,IA/jQO,qBAAQ,CA+jQf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA1QmB,QA0QJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QA7Qe,QA6QP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QAnRP,yB;O;KAHJ,C;kFAMA,yB;MAmRA,8D;MAnRA,sC;QAGW,sB;;UAuRP,IAhlQO,qBAAQ,CAglQf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA3RmB,QA2RJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QA9Re,QA8RP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QApSP,yB;O;KAHJ,C;kFAMA,yB;MAoSA,8D;MApSA,sC;QAGW,sB;;UAwSP,IAjmQO,qBAAQ,CAimQf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA5SmB,QA4SJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QA/Se,QA+SP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QArTP,yB;O;KAHJ,C;kFAMA,yB;MAqTA,8D;MArTA,sC;QAGW,sB;;UAyTP,IAlnQO,qBAAQ,CAknQf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA7TmB,QA6TJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAhUe,QAgUP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QAtUP,yB;O;KAHJ,C;kFAMA,yB;MAsUA,8D;MAtUA,sC;QAGW,sB;;UA0UP,IAnoQO,qBAAQ,CAmoQf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA9UmB,QA8UJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAjVe,QAiVP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QAvVP,yB;O;KAHJ,C;kFAMA,yB;MAuVA,8D;MAvVA,sC;QAGW,sB;;UA2VP,IApoQO,qBAAQ,CAooQf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA/VmB,QA+VJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAlWe,QAkWP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QAxWP,yB;O;KAHJ,C;kFAMA,yB;MAwWA,8D;MAxWA,sC;QAGW,sB;;UA4WP,IArpQO,qBAAQ,CAqpQf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAhXmB,QAgXJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAnXe,QAmXP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QAzXP,yB;O;KAHJ,C;kFAMA,yB;MAyXA,8D;MAzXA,sC;QAGW,sB;;UA6XP,IAtqQO,qBAAQ,CAsqQf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAjYmB,QAiYJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QApYe,QAoYP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA1YP,yB;O;KAHJ,C;kFAMA,yB;MA0YA,8D;MA1YA,sC;QAGW,sB;;UA8YP,IAvrQO,qBAAQ,CAurQf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAlZmB,QAkZJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QArZe,QAqZP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA3ZP,yB;O;KAHJ,C;kFAMA,yB;MA2ZA,8D;MA3ZA,sC;QAGW,sB;;UA+ZP,IAxsQO,qBAAQ,CAwsQf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAnamB,QAmaJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAtae,QAsaP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA5aP,yB;O;KAHJ,C;kFAMA,yB;MA4aA,8D;MA5aA,sC;QAGW,sB;;UAgbP,IAztQO,qBAAQ,CAytQf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eApbmB,QAobJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAvbe,QAubP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA7bP,yB;O;KAHJ,C;kFAMA,yB;MA6bA,8D;MA7bA,sC;QAGW,sB;;UAicP,IA1uQO,qBAAQ,CA0uQf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eArcmB,QAqcJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAxce,QAwcP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA9cP,yB;O;KAHJ,C;kFAMA,yB;MA8cA,8D;MA9cA,sC;QAGW,sB;;UAkdP,IA3vQO,qBAAQ,CA2vQf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAtdmB,QAscJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAzde,QAydP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA/dP,yB;O;KAHJ,C;kFAMA,yB;MA+dA,8D;MA/dA,sC;QAGW,sB;;UAmeP,IA5wQO,qBAAQ,CA4wQf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAvemB,QAueJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QA1ee,QA0eP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QAhfP,yB;O;KAHJ,C;kFAMA,yB;MAgfA,8D;MAhfA,sC;QAGW,sB;;UAofP,IA7xQO,qBAAQ,CA6xQf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAxfmB,QAwfJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QA3fe,QA2fP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QAjgBP,yB;O;KAHJ,C;kFAMA,yB;MAigBA,8D;MAjgBA,sC;QAGW,sB;;UAqgBP,IA9yQO,qBAAQ,CA8yQf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAzgBmB,QAygBJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QA5ge,QA4gBP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QAlhBP,yB;O;KAHJ,C;kFAMA,yB;MAkhBA,8D;MAlhBA,sC;QAGW,sB;;UAshBP,IA/zQO,qBAAQ,CA+zQf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA1hBmB,QA0hBJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QA7he,QA6hBP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QAniBP,yB;O;KAHJ,C;kFAMA,yB;MAmiBA,8D;MAniBA,sC;QAGW,sB;;UAuiBP,IAh1QO,qBAAQ,CAg1Qf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA3iBmB,QA2iBJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QA9ie,QA8iBP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QApjBP,yB;O;KAHJ,C;kFAMA,yB;MAojBA,8D;MApjBA,sC;QAGW,sB;;UAwjBP,IAj2QO,qBAAQ,CAi2Qf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA5jBmB,QA4jBJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QA/je,QA+jBP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QArkBP,yB;O;KAHJ,C;kFAMA,yB;MAqkBA,8D;MArkBA,sC;QAGW,sB;;UAykBP,IAl3QO,qBAAQ,CAk3Qf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA7kBmB,QA6kBJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAhle,QAglBP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QAtlBP,yB;O;KAHJ,C;kFAMA,yB;MAslBA,8D;MAtlBA,sC;QAGW,sB;;UA0lBP,IAn4QO,qBAAQ,CAm4Qf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA9lBmB,QA8lBJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAjme,QAimBP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QAvmBP,yB;O;KAHJ,C;kFAMA,yB;MAumBA,8D;MAvmBA,sC;QAGW,sB;;UA2mBP,IAp5QO,qBAAQ,CAo5Qf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA/mBmB,QA+mBJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAlne,QAknBP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QAxnBP,yB;O;KAHJ,C;kFAMA,yB;MAwnBA,8D;MAxnBA,sC;QAGW,sB;;UA4nBP,IAr6QO,qBAAQ,CAq6Qf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAhoBmB,QAgoBJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAnoe,QAmoBP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QAzoBP,yB;O;KAHJ,C;kFAMA,yB;MAyoBA,8D;MAzoBA,sC;QAGW,sB;;UA6oBP,IAt7QO,qBAAQ,CAs7Qf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAjpBmB,QAipBJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAppe,QAopBP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA1pBP,yB;O;KAHJ,C;kFAMA,yB;MA0pBA,8D;MA1pBA,sC;QAGW,sB;;UA8pBP,IAv8QO,qBAAQ,CAu8Qf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAlqBmB,QAkqBJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QArqe,QAqqBP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA3qBP,yB;O;KAHJ,C;kFAMA,yB;MA2qBA,8D;MA3qBA,sC;QAGW,sB;;UA+qBP,IAx9QO,qBAAQ,CAw9Qf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAnrBmB,QAmrBJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAtre,QAsrBP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA5rBP,yB;O;KAHJ,C;kFAMA,yB;MA4rBA,8D;MA5rBA,sC;QAGW,sB;;UAgsBP,IAz+QO,qBAAQ,CAy+Qf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eApsBmB,QAosBJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAvse,QAusBP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA7sBP,yB;O;KAHJ,C;kFAMA,yB;MA6sBA,8D;MA7sBA,sC;QAGW,sB;;UAitBP,IA1/QO,qBAAQ,CA0/Qf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eArtBmB,QAqtBJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAxte,QAwtBP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA9tBP,yB;O;KAHJ,C;kFAMA,yB;MA8tBA,8D;MA9tBA,sC;QAGW,sB;;UAkuBP,IA3gRO,qBAAQ,CA2gRf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAtuBmB,QAsuBJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAzue,QAyuBP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA/uBP,yB;O;KAHJ,C;kFAMA,yB;MA+uBA,8D;MA/uBA,sC;QAGW,sB;;UAmvBP,IA5hRO,qBAAQ,CA4hRf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAvvBmB,QAuvBJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QA1ve,QA0vBP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QAhwBP,yB;O;KAHJ,C;kFAMA,yB;MAgwBA,8D;MAhwBA,sC;QAGW,sB;;UAowBP,IA7iRO,qBAAQ,CA6iRf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAxwBmB,QAwwBJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QA3we,QA2wBP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QAjxBP,yB;O;KAHJ,C;kFAMA,yB;MAixBA,8D;MAjxBA,sC;QAGW,sB;;UAqxBP,IA9jRO,qBAAQ,CA8jRf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAzxBmB,QAyxBJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QA5xe,QA4xBP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QAlyBP,yB;O;KAHJ,C;kFAMA,yB;MAkyBA,8D;MAlyBA,sC;QAGW,sB;;UAsyBP,IA/kRO,qBAAQ,CA+kRf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA1yBmB,QA0yBJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QA7ye,QA6yBP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QAnzBP,yB;O;KAHJ,C;kFAMA,yB;MAmzBA,8D;MAnzBA,sC;QAGW,sB;;UAuzBP,IAhmRO,qBAAQ,CAgmRf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA3zBmB,QA2zBJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QA9ze,QA8zBP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QApzBP,yB;O;KAHJ,C;kFAMA,yB;MAozBA,8D;MApzBA,sC;QAGW,sB;;UAwzBP,IAjnRO,qBAAQ,CAinRf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA5zBmB,QA4zBJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QA/ze,QA+zBP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QArzBP,yB;O;KAHJ,C;kFAMA,yB;MAqzBA,8D;MArzBA,sC;QAGW,sB;;UAyzBP,IAlnRO,qBAAQ,CAknRf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA7zBmB,QA6zBJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAh0e,QAg0BP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QAt0BP,yB;O;KAHJ,C;kFAMA,yB;MAs0BA,8D;MAt0BA,sC;QAGW,sB;;UA00BP,IAnoRO,qBAAQ,CAmoRf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA90BmB,QA80BJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAj1e,QAi1BP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QAv1BP,yB;O;KAHJ,C;kFAMA,yB;MAu1BA,8D;MAv1BA,sC;QAGW,sB;;UA21BP,IApoRO,qBAAQ,CAooRf,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA/1BmB,QA+1BJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAl2e,QAk2BP,CAAS,CAAT,C;YACR,IAAI,2BAAW,C

CAAjB,C;UAAoB,OAAO,O;QAC3B,eAAe,SAAS,oBAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,cAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,OAAO,O;O;KApBX,C;gFAuBA,yB;MAAA,sE;MAAA,8D;MkB/gfA,iB;MlB+gfA,sC;QAeiB,Q;QAFb,IAxlQO,qBAAQ,CAwlQf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBxhfG,MAAO,KlBwhfO,QkBxhfP,ElBwhfiB,CkBxhfjB,C;;QlB0hfA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBrifA,iB;MlBqifA,sC;QAeiB,Q;QAFb,IAtmQO,qBAAQ,CAsmQf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB9ifG,MAAO,K8ifO,Q8ifP,E8iB8ifiB,C8iB9ifjB,C;;QlBgjfA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB3jfA,iB;MlB2jfA,sC;QAeiB,Q;QAFb,IApnQO,qBAAQ,CAonQf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBpkfG,MAAO,KlBokfO,QkBpkfP,ElBokfiB,CkBpkfjB,C;;QlBskfA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBjlfA,iB;MlBilfA,sC;QAeiB,Q;QAFb,IAloQO,qBAAQ,CAkoQf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB1lfG,MAAO,KlB0lfO,QkB1lfP,ElB0lfiB,CkB1lfjB,C;;QlB4lfA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBvmfA,iB;MlBumfA,sC;QAeiB,Q;QAFb,IAhpQO,qBAAQ,CAgpQf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBhnfG,MAAO,KlBgnfO,QkBhnfP,ElBgnfiB,CkBhnfjB,C;;QlBknfA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB7nfA,iB;MlB6nfA,sC;QAeiB,Q;QAFb,IA9qQO,qBAAQ,CA8qQf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBtofG,MAAO,KlBsofO,QkBtofP,ElBsofiB,CkBtofjB,C;;QlBwofA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBnpfA,iB;MlBmpfA,sC;QAeiB,Q;QAFb,IA5sQO,qBAAQ,CA4sQf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB5pfG,MAAO,KlB4pfO,QkB5pfP,ElB4pfiB,CkB5pfjB,C;;QlB8pfA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBzqfA,iB;MlByqfA,sC;QAeiB,Q;QAFb,IAlvQO,qBAAQ,CAkvQf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBlrfG,MAAO,KlBkrfO,QkBlrfP,ElBkrfiB,CkBlrfjB,C;;QlBorfA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB/rfA,iB;MlB+rfA,sC;QAeiB,Q;QAFb,IAxxQO,qBAAQ,CAwxQf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBxtfG,MAAO,KlBwtfO,QkBxtfP,ElBwtfiB,CkBxtfjB,C;;QlB0tfA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBrufA,iB;MlBqufA,sC;QAeiB,Q;QAFb,IA9zQO,qBAAQ,CA8zQf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB9vfG,MAAO,KlB8vfO,QkB9vfP,ElB8vfiB,CkB9vfjB,C;;QlBgwfA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB3wfA,iB;MlB2wfA,sC;QAeiB,Q;QAFb,IA11QO,qBAAQ,CA01QF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBpyfG,MAAO,KlBoyfO,QkBpyfP,ElBoyfiB,CkBpyfjB,C;;QlBsyfA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBjzfA,iB;MlBizfA,sC;QAeiB,Q;QAFb,IA54QO,qBAAQ,CA44QF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB1zfG,MAAO,KlB0zfO,QkB1zfP,ElB0zfiB,CkB1zfjB,C;;QlB4zfA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBv0fA,iB;MlBu0fA,sC;QAeiB,Q;QAFb,IA95QO,qBAAQ,CA85QF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBh1fG,MAAO,KlBg1fO,QkBh1fP,ElBg1fiB,CkBh1fjB,C;;QlBk1fA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB72fA,iB;MlB62fA,sC;QAeiB,Q;QAFb,IAh8QO,qBAAQ,CAg8QF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBt3fG,MAAO,KlBs3fO,QkBt3fP,ElBs3fiB,CkBt3fjB,C;;QlBw3fA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBn4fA,iB;MlBm4fA,sC;QAeiB,Q;QAFb,IAl9QO,qBAAQ,CAk9QF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB55fG,MAAO,KlB45fO,QkB55fP,ElB45fiB,CkB55fjB,C;;QlB85fA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBz6fA,iB;MlBy6fA,sC;QAeiB,Q;QAFb,IAp+QO,qBAAQ,CAo+QF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBl8fG,MAAO,KlBk8fO,QkBl8fP,ElBk8fiB,CkBl8fjB,C;;QlBo8fA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB/8fA,iB;MlB+8fA,sC;QAeiB,Q;QAFb,IAt/QO,qBAAQ,CAs/QF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBx+fG,MAAO,KlBw+fO,QkBx+fP,ElBw+fiB,CkBx+fjB,C;;QlB0+fA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBrggBA,iB;MlBqggBA,sC;QAeiB,Q;QAFb,IAxhRO,qBAAQ,CAwhRF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB9hgBG,MAAO,KlB8hgBO,QkB9hgBP,ElB8hgBiB,CkB9hgBjB,C;;QlBgigBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB3igBA,iB;MlB2igBA,sC;QAeiB,Q;QAFb,IA1jRO,qBAAQ,CA0jRF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBpkgBG,MAAO,KlBokgBO,QkBpkgBP,ElBokgBiB,CkBpkgBjB,C;;QlBskgBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBjlgBA,iB;MlBilgBA,sC;QAeiB,Q;QAFb,IA5lRO,qBAAQ,CA4lRF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB1mgBG,MAAO,KlB0mgBO,QkB1mgBP,ElB0mgBiB,CkB1mgBjB,C;;QlB4mgBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBvngBA,iB;MlBungBA,sC;QAeiB,Q;QAFb,IA9nRO,qBAAQ,CA8nRF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBhpgBG,MAAO,KlBgpgBO,QkBhpgBP,ElBgpgBiB,CkBhpgBjB,C;;QlBkpgBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB7pgBA,iB;MlB6pgBA,sC;QAeiB,Q;QAFb,IAhqRO,qBAAQ,CAgqRF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBtqgBG,MAAO,KlBsqgBO,QkBtqgBP,ElBsqgBiB,CkBtqgBjB,C;;QlBwqgBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBnrgBA,iB;MlBmrgBA,sC;QAeiB,Q;QAFb,IAlsRO,qBAAQ,CAksRF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB5rgBG,MAAO,KlB4rgBO,QkB5rgBP,ElB4rgBiB,CkB5rgBjB,C;;QlB8rgBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBzsgBA,iB;MlBysgBA,sC;QAeiB,Q;QAFb,IAptRO,qBAAQ,CAotRF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBhtgBG,MAAO,KlBgtgBO,QkBhtgBP,ElBgtgBiB,CkBhtgBjB,C;;QlBktgBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB7tgBA,iB;MlB6tgBA,sC;QAeiB,Q;QAFb,IAhvRO,qBAAQ,CAgvRF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBtugBG,MAAO,KlBsugBO,QkBtugBP,ElBsugBiB,CkBtugBjB,C;;QlBwugBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBnvgBA,iB;MlBmvgBA,sC;QAeiB,Q;QAFb,IAlwRO,qBAAQ,CAkwRF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB5vgBG,MAAO,KlB4vgBO,QkB5vgBP,ElB4vgBiB,CkB5vgBjB,C;;QlB8vgBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBzwgBA,iB;MlBywgBA,sC;QAeiB,Q;QAFb,IAnxRO,qBAAQ,CAmxRF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB7wgBG,MAAO,KlB6wgBO,QkB7wgBP,ElB6wgBiB,CkB7wgBjB,C;;QlB+wgBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB1xgBA,iB;MlB0xgBA,sC;QAeiB,Q;QAFb,IAnyRO,qBAAQ,CAmyRF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB7xgBG,MAAO,KlB6xgBO,QkB7xgBP,ElB6xgBiB,CkB7xgBjB,C;;QlB+xgBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB1ygBA,iB;MlB0ygBA,sC;QAeiB,Q;QAFb,IAnzRO,qBAAQ,CAmzRF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB7ygBG,MAAO,KlB6ygBO,QkB7ygBP,ElB6ygBiB,CkB7ygBjB,C;;QlB+ygBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB1zgBA,iB;MlB0zgBA,sC;QAeiB,Q;QAFb,IAn0RO,qBAAQ,CAm0RF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB7zgBG,MAAO,KlB6zgBO,QkB7zgBP,ElB6zgBiB,CkB7zgBjB,C;;QlB+zgBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB11gBA,iB;MlB01gBA,sC;QAeiB,Q;QAFb,IAn2RO,qBAAQ,CAm2RF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB72gBG,MAAO,KlB62gBO,QkB72gBP,ElB62gBiB,CkB72gBjB,C;;QlB+2gBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB14gBA,iB;MlB04gBA,sC;QAeiB,Q;QAFb,IAn4RO,qBAAQ,CAm4RF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB74gBG,MAAO,KlB64gBO,QkB74gBP,ElB64gBiB,CkB74gBjB,C;;QlB+4gBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB16gBA,iB;MlB06gBA,sC;QAeiB,Q;QAFb,IAn6RO,qBAAQ,CAm6RF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB76gBG,MAAO,KlB66gBO,QkB76gBP,ElB66gBiB,CkB76gBjB,C;;QlB+6gBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB18gBA,iB;MlB08gBA,sC;QAeiB,Q;QAFb,IAn8RO,qBAAQ,CAm8RF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB78gBG,MAAO,KlB68gBO,QkB78gBP,ElB68gBiB,CkB78gBjB,C;;QlB+8gBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB1+gBA,iB;MlB0+gBA,sC;QAeiB,Q;QAFb,IAn+RO,qBAAQ,CAm+RF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB7+gBG,MAAO,KlB6+gBO,QkB7+gBP,ElB6+gBiB,CkB7+gBjB,C;;QlB++gBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB1ghBA,iB;MlB0ghBA,sC;QAeiB,Q;QAFb,IAn/RO,qBAAQ,CAm/RF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB7ghBG,MAAO,KlB6ghBO,QkB7ghBP,ElB6ghBiB,CkB7ghBjB,C;;QlB+ghBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB1ihBA,iB;MlB0ihBA,sC;QAeiB,Q;QAFb,IAn/RO,qBAAQ,CAm/RF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB7ihBG,MAAO,KlB6ihBO,QkB7ihBP,ElB6ihBiB,CkB7ihBjB,C;;QlB+ihBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB1jhBA,iB;MlB0jhBA,sC;QAeiB,Q;QAFb,IAn/RO,qBAAQ,CAm/RF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB7jhBG,MAAO,KlB6jhBO,QkB7jhBP,ElB6jhBiB,CkB7jhBjB,C;;QlB+jhBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB1khBA,iB;MlB0khBA,sC;QAeiB,Q;QAFb,IAn/RO,qBAAQ,CAm/RF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB7khBG,MAAO,KlB6khBO,QkB7khBP,ElB6khBiB,CkB7khBjB,C;;QlB+khBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB1lhBA,iB;MlB0lhBA,sC;QAeiB,Q;QAFb,IAn/RO,qBAAQ,CAm/RF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB7lhBG,MAAO,KlB6lhBO,QkB7lhBP,ElB6lhBiB,CkB7lhBjB,C;;QlB+lhBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB1mhBA,iB;MlB0mhBA,sC;QAeiB,Q;QAFb,IAn/RO,qBAAQ,CAm/RF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB7mhBG,MAAO,KlB6mhBO,QkB7mhBP,ElB6mhBiB,CkB7mhBjB,C;;QlB+mhBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB1nhBA,iB;MlB0nhBA,sC;QAeiB,Q;QAFb,IAn/RO,qBAAQ,CAm/RF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB7nhBG,MAAO,KlB6nhBO,QkB7nhBP,ElB6nhBiB,CkB7nhBjB,C;;QlB+nhBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB1ohBA,iB;MlB0ohBA,sC;QAeiB,Q;QAFb,IAn/RO,qBAAQ,CAm/RF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB7ohBG,MAAO,KlB6ohBO,QkB7ohBP,ElB6ohBiB,CkB7ohBjB,C;;QlB+ohBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB1phBA,iB;MlB0phBA,sC;QAeiB,Q;QAFb,IAn/RO,qBAAQ,CAm/RF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB7phBG,MAAO,KlB6phBO,QkB7phBP,ElB6phBiB,CkB7phBjB,C;;QlB+phBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB1qhBA,iB;MlB0qhBA,sC;QAeiB,Q;QAFb,IAn/RO,qBAAQ,CAm/RF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB7qhBG,MAAO,KlB6qhBO,QkB7qhBP,ElB6qhBiB,CkB7qhBjB,C;;QlB+qhBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB1rhBA,iB;MlB0rhBA,sC;QAeiB,Q;QAFb,IAn/RO,qBAAQ,CAm/RF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB7rhBG,MAAO,KlB6rhBO,QkB7rhBP,ElB6rhBiB,CkB7rhBjB,C;;QlB+rhBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB1shBA,iB;MlB0shBA,sC;QAeiB,Q;QAFb,IAn/RO,qBAAQ,CAm/RF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB7shBG,MAAO,KlB6shBO,QkB7shBP,ElB6shBiB,CkB7shBjB,C;;QlB+shBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB1thBA,iB;MlB0thBA,sC;QAeiB,Q;QAFb,IAn/RO,qBAAQ,CAm/RF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB7thBG,MAAO,KlB6thBO,QkB7thBP,ElB6thBiB,CkB7thBjB,C;;QlB+thBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB1uhBA,iB;MlB0uhBA,sC;QAeiB,Q;QAFb,IAn/RO,qBAAQ,CAm/RF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB7uhBG,MAAO,KlB6uhBO,QkB7uhBP,ElB6uhBiB,CkB7uhBjB,C;;QlB+uhBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB1vhBA,iB;MlB0vhBA,sC;QAeiB,Q;QAFb,IAn/RO,qBAAQ,CAm/RF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB7vhBG,MAAO,KlB6vhBO,QkB7vhBP,ElB6vhBiB,CkB7vhBjB,C;;QlB+vhBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB1whBA,iB;MlB0whBA,sC;QAeiB,Q;QAFb,IAn/RO,qBAAQ,CAm/RF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB7whBG,MAAO,KlB6whBO,QkB7whBP,ElB6whBiB,CkB7whBjB,C;;QlB+whBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB1xhBA,iB;MlB0xhBA,sC;QAeiB,Q;QAFb,IAn/RO,qBAAQ,CAm/RF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB7xhBG,MAAO,KlB6xhBO,QkB7xhBP,ElB6xhBiB,CkB7xhBjB,C;;QlB+xhBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB1yhBA,iB;MlB0yhBA,sC;QAeiB,Q;QAFb,IAn/RO,qBAAQ,CAm/RF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB7yhBG,MAAO,KlB6yhBO,QkB7yhBP,ElB6yhBiB,CkB7yhBjB,C;;QlB+yhBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB1zhBA,iB;MlB0zhBA,sC;QAeiB,Q;QAFb,IAn/RO,qBAAQ,CAm/RF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB7zhBG,MAAO,KlB6zhBO,QkB7zhBP,ElB6zhBiB,CkB7zhBjB,C;;QlB+zhBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB10hBA,iB;MlB00hBA,sC;QAeiB,Q;QAFb,IAn/RO,qBAAQ,CAm/RF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB70hBG,MAAO,KlB60hBO,QkB70hBP,ElB60hBiB,CkB70hBjB,C;;QlB+0hBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB12hBA,iB;MlB02hBA,sC;QAeiB,Q;QAFb,IAn/RO,qBAAQ,CAm/RF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB72hBG,MAAO,KlB62hBO,QkB72hBP,ElB62hBiB,CkB72hBjB,C;;QlB+2hBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB14hBA,iB;MlB04hBA,sC;QAeiB,Q;QAFb,IAn/RO,qBAAQ,CAm/RF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB74hBG,MAAO,KlB64hBO,QkB74hBP,ElB64hBiB,CkB74hBjB,C;;QlB+4hBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB16hBA,iB;MlB06hBA,sC;QAeiB,Q;QAFb,IAn/RO,qBAAQ,CAm/RF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB76hBG,MAAO,KlB66hBO,QkB76hBP,ElB66hBiB,CkB76hBjB,C;;QlB+6hBA,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB18hBA,iB;MlB08hBA,sC;QAeiB,Q;QAFb,IAn/RO,qBAAQ,CAm/RF,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aA

AU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBv1fG,MAAO,KlBu1fO,QkBv1fP,ElBu1fiB,CkBv1fjB,C;;QlBy1fd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBp2fA,iB;MlBo2fA,sC;QAeiB,Q;QAFb,IAl3QO,qBAAQ,CAk3Qf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB72fG,MAAO,KlB62fO,QkB72fP,ElB62fiB,CkB72fjB,C;;QlB+2fd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkB13fA,iB;MlB03fA,sC;QAeiB,Q;QAFb,IAh4QO,qBAAQ,CAg4Qf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBn4fG,MAAO,KlBm4fO,QkBn4fP,ElBm4fiB,CkBn4fjB,C;;QlBq4fd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBh5fA,iB;MlBg5fA,sC;QAeiB,Q;QAFb,IA94QO,qBAAQ,CA84Qf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WkBz5fG,MAAO,KlBy5fO,QkBz5fP,ElBy5fiB,CkBz5fjB,C;;QlB25fd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBt6fA,iB;MlBs6fA,sC;QAeiB,Q;QAFb,IAl+QO,qBAAQ,CAk+Qf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAW,C;YACX,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MAAA,sC;QAeiB,Q;QAFb,IAh/QO,qBAAQ,CAg/Qf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAW,C;YACX,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MAAA,sC;QAeiB,Q;QAFb,IA9/QO,qBAAQ,CA8/Qf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAW,C;YACX,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MAAA,sC;QAeiB,Q;QAFb,IA5gRO,qBAAQ,CA4gRf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAW,C;YACX,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MAAA,sC;QAeiB,Q;QAFb,IA1hRO,qBAAQ,CA0hRf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAW,C;YACX,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MAAA,sC;QAeiB,Q;QAFb,IAxiRO,qBAAQ,CAwiRf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAW,C;YACX,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MAAA,sC;QAeiB,Q;QAFb,IAtjRO,qBAAQ,CAsjRf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAW,C;YACX,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MAAA,sC;QAeiB,Q;QAFb,IApkRO,qBAAQ,CAokRf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAW,C;YACX,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MAAA,sC;QAeiB,Q;QAFb,IAllRO,qBAAQ,CAklRf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAW,C;YACX,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MAAA,sC;QAeiB,Q;QAFb,IAxmRO,qBAAQ,CAwmRf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAW,C;YACX,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;4FAsBA,yB;MAAA,sE;MAAA,8D;MkBnnfA,iB;MlBmnfA,sC;QAeiB,Q;QAFb,IAxoRO,qBAAQ,CAwoRf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBhofG,MAAO,KlBgofO,QkBhofP,ElBgofiB,CkBhofjB,C;;QlBkofd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkB7ofA,iB;MlB6ofA,sC;QAeiB,Q;QAFb,IAtqRO,qBAAQ,CAsqRf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBvpfG,MAAO,KlBupfO,QkBvpfP,ElBupfiB,CkBvpfjB,C;;QlBypfd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBpqfA,iB;MlBoqfA,sC;QAeiB,Q;QAFb,IA5rRO,qBAAQ,CA4rRf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB3qfG,MAAO,KlB2qfO,QkB3qfP,ElB2qfiB,CkB3qfjB,C;;QlB6qfd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBxrfA,iB;MlBwrfA,sC;QAeiB,Q;QAFb,IAltRO,qBAAQ,CAktRf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB/rfG,MAAO,KlB+rfO,QkB/rfP,ElB+rfiB,CkB/rfjB,C;;QlBisfd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkB5sfA,iB;MlB4sfA,sC;QAeiB,Q;QAFb,IAxuRO,qBAAQ,CAwuRf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBntfG,MAAO,KlBmtfO,QkBntfP,ElBmtfiB,CkBntfjB,C;;QlBqtfd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBhufA,iB;MlBgufA,sC;QAeiB,Q;QAFb,IA5vRO,qBAAQ,CA4vRf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBvufG,MAAO,KlBuufO,QkBvufP,ElBuufiB,CkBvufjB,C;;QlByufd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBpvfA,iB;MlBovfA,sC;QAeiB,Q;QAFb,IAhxRO,qBAAQ,CAgxRf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB3vfG,MAAO,KlB2vfO,QkB3vfP,ElB2vfiB,CkB3vfjB,C;;QlB6vfd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBxwfA,iB;MlBwwfA,sC;QAeiB,Q;QAFb,IApyRO,qBAAQ,CAoyRf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB/wfG,MAAO,KlB+wfO,QkB/wfP,ElB+wfiB,CkB/wfjB,C;;QlBixfd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkB5xfA,iB;MlB4xfA,sC;QAeiB,Q;QAFb,IAxzRO,qBAAQ,CAwzRf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBnyfG,MAAO,KlBmyfO,QkBnyfP,ElBmyfiB,CkBnyfjB,C;;QlBqyfd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBhzfA,iB;MlBgzfA,sC;QAeiB,Q;QAFb,IA50RO,qBAAQ,CA40Rf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBvzfG,MAAO,KlBuzfO,QkBvzfP,ElBuzfiB,CkBvzfjB,C;;QlByzfd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBp0fA,iB;MlBo0fA,sC;QAeiB,Q;QAFb,IAh2RO,qBAAQ,CAg2Rf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB30fG,MAAO,KlB20fO,QkB30fP,ElB20fiB,CkB30fjB,C;;QlB60fd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBx1fA,iB;MlBw1fA,sC;QAeiB,Q;QAFb,IAp3RO,qBAAQ,CAo3Rf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB/1fG,MAAO,KlB+1fO,QkB/1fP,ElB+1fiB,CkB/1fjB,C;;QlBi2fd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkB53fA,iB;MlB43fA,sC;QAeiB,Q;QAFb,IAx4RO,qBAAQ,CAw4Rf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBn4fG,MAAO,KlBm4fO,QkBn4fP,ElBm4fiB,CkBn4fjB,C;;QlBq4fd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBh5fA,iB;MlBg5fA,sC;QAeiB,Q;QAFb,IA55RO,qBAAQ,CA45Rf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBv5fG,MAAO,KlBu5fO,QkBv5fP,ElBu5fiB,CkBv5fjB,C;;QlBy5fd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBp6fA,iB;MlBo6fA,sC;QAeiB,Q;QAFb,IAh8RO,qBAAQ,CAg8Rf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB36fG,MAAO,KlB26fO,QkB36fP,ElB26fiB,CkB36fjB,C;;QlB66fd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBx7fA,iB;MlBw7fA,sC;QAeiB,Q;QAFb,IAp9RO,qBAAQ,CAo9Rf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB/7fG,MAAO,KlB+7fO,QkB/7fP,ElB+7fiB,CkB/7fjB,C;;QlBi8fd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkB59fA,iB;MlB49fA,sC;QAeiB,Q;QAFb,IAx+RO,qBAAQ,CAw+Rf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBn+fG,MAAO,KlBm+fO,QkBn+fP,ElBm+fiB,CkBn+fjB,C;;QlBq+fd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBh/fA,iB;MlBg/fA,sC;QAeiB,Q;QAFb,IA5gSO,qBAAQ,CA4gSf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBv/fG,MAAO,KlBu/fO,QkBv/fP,ElBu/fiB,CkBv/fjB,C;;QlBy/fd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBpggBA,iB;MlBoggBA,sC;QAeiB,Q;QAFb,IAhiSO,qBAAQ,CAgiSf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB3ggBG,MAAO,KlB2ggBO,QkB3ggBP,ElB2ggBiB,CkB3ggBjB,C;;QlB6ggBd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBxhgBA,iB;MlBwhgBA,sC;QAeiB,Q;QAFb,IApjSO,qBAAQ,CAojSf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB/hgBG,MAAO,KlB+hgBO,QkB/hgBP,ElB+hgBiB,CkB/hgBjB,C;;QlBiigBd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkB5igBA,iB;MlB4igBA,sC;QAeiB,Q;QAFb,IAxkSO,qBAAQ,CAwkSf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBnjgBG,MAAO,KlBmjgBO,QkBnjgBP,ElBmjgBiB,CkBnjgBjB,C;;QlBqjgBd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBhkgBA,iB;MlBgkgBA,sC;QAeiB,Q;QAFb,IA5lSO,qBAAQ,CA4lSf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBvkgBG,MAAO,KlBukgBO,QkBvkgBP,ElBukgBiB,CkBvkgBjB,C;;QlBykgBd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBplgBA,iB;MlBolgBA,sC;QAeiB,Q;QAFb,IAhnSO,qBAAQ,CAgnSf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB3lgBG,MAAO,KlB2lgBO,QkB3lgBP,ElB2lgBiB,CkB3lgBjB,C;;QlB6lgBd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBxmgBA,iB;MlBwmgBA,sC;QAeiB,Q;QAFb,IApoSO,qBAAQ,CAooSf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB/mgBG,MAAO,KlB+mgBO,QkB/mgBP,ElB+mgBiB,CkB/mgBjB,C;;QlBingBd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkB5ngBA,iB;MlB4ngBA,sC;QAeiB,Q;QAFb,IAxpSO,qBAAQ,CAwpSf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBnogBG,MAAO,KlBmogBO,QkBnogBP,ElBmogBiB,CkBnogBjB,C;;QlBqogBd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBhpgBA,iB;MlBgpgBA,sC;QAeiB,Q;QAFb,IA5qSO,qBAAQ,CA4qSf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBvpgBG,MAAO,KlBupgBO,QkBvpgBP,ElBupgBiB,CkBvpgBjB,C;;QlBypgBd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBpqgBA,iB;MlBoqgBA,sC;QAeiB,Q;QAFb,IAhsSO,qBAAQ,CAgsSf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB3qgBG,MAAO,KlB2qgBO,QkB3qgBP,ElB2qgBiB,CkB3qgBjB,C;;QlB6qgBd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBxrgBA,iB;MlBwrgBA,sC;QAeiB,Q;QAFb,IAptSO,qBAAQ,CAotSf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB/rgBG,MAAO,KlB+rgBO,QkB/rgBP,ElB+rgBiB,CkB/rgBjB,C;;QlBisgBd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkB5sgBA,iB;MlB4sgBA,sC;QAeiB,Q;QAFb,IAxuSO,qBAAQ,CAwuSf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBntgBG,MAAO,KlBmtgBO,QkBntgBP,ElBmtgBiB,CkBntgBjB,C;;QlBqtgBd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBhugBA,iB;MlBgugBA,sC;QAeiB,Q;QAFb,IA5vSO,qBAAQ,CA4vSf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBvugBG,MAAO,KlBuugBO,QkBvugBP,ElBuugBiB,CkBvugBjB,C;;QlBygBd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBpvgBA,iB;MlBovgBA,sC;QAeiB,Q;QAFb,IAhxSO,qBAAQ,CAgxSf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB3vgBG,MAAO,KlB2vgBO,QkB3vgBP,ElB2vgBiB,CkB3vgBjB,C;;QlB6vgBd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBxwgBA,iB;MlBwwgBA,sC;QAeiB,Q;QAFb,IApySO,qBAAQ,CAoySf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB/wgBG,MAAO,KlB+wgBO,QkB/wgBP,ElB+wgBiB,CkB/wgBjB,C;;QlBixgBd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkB5xgBA,iB;MlB4xgBA,sC;QAeiB,Q;QAFb,IAxzSO,qBAAQ,CAwzSf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBnygBG,MAAO,KlBmygBO,QkBnygBP,ElBmygBiB,CkBnygBjB,C;;QlBqygBd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBhzgBA,iB;MlBgzgBA,sC;QAeiB,Q;QAFb,IA50SO,qBAAQ,CA40Sf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBvzgBG,MAAO,KlBuzgBO,QkBvzgBP,ElBuzgBiB,CkBvzgBjB,C;;QlByzgBd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBp0gBA,iB;MlBo0gBA,sC;QAeiB,Q;QAFb,IAh2SO,qBAAQ,CAg2Sf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB30gBG,MAAO,KlB20gBO,QkB30gBP,ElB20gBiB,CkB30gBjB,C;;QlB60gBd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBx1gBA,iB;MlBw1gBA,sC;QAeiB,Q;QAFb,IAp3SO,qBAAQ,CAo3Sf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB/1gBG,MAAO,KlB+1gBO,QkB/1gBP,ElB+1gBiB,CkB/1gBjB,C;;QlBi2gBd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkB53gBA,iB;MlB43gBA,sC;QAeiB,Q;QAFb,IAx4SO,qBAAQ,CAw4Sf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBn3gBG,MAAO,KlBm3gBO,QkBn3gBP,ElBm3gBiB,CkBn3gBjB,C;;QlBq3gBd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBh4gBA,iB;MlBg4gBA,sC;QAeiB,Q;QAFb,IA55SO,qBAAQ,CA45Sf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBv3gBG,MAAO,KlBu3gBO,QkBv3gBP,ElBu3gBiB,CkBv3gBjB,C;;QlBy3gBd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBp4gBA,iB;MlBo4gBA,sC;QAeiB,Q;QAFb,IAh7SO,qBAAQ,CAg7Sf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB34gBG,MAAO,KlB24gBO,QkB34gBP,ElB24gBiB,CkB34gBjB,C;;QlB64gBd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBx5gBA,iB;MlBw5gBA,sC;QAeiB,Q;QAFb,IAp8SO,qBAAQ,CAo8Sf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB/5gBG,MAAO,KlB+5gBO,QkB/5gBP,ElB+5gBiB,CkB/5gBjB,C;;QlBi6gBd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkB57gBA,iB;MlB47gBA,sC;QAeiB,Q;QAFb,IAx9SO,qBAAQ,CAw9Sf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBn7gBG,MAAO,KlBm7gBO,QkBn7gBP,ElBm7gBiB,CkBn7gBjB,C;;QlBq7gBd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBh8gBA,iB;MlBg8gBA,sC;QAeiB,Q;QAFb,IA5+SO,qBAAQ,CA4+Sf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBv7gBG,MAAO,KlBu7gBO,QkBv7gBP,ElBu7gBiB,CkBv7gBjB,C;;QlBy7gBd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBp8gBA,iB;MlBo8gBA,sC;QAeiB,Q;QAFb,IAhgTO,qBAAQ,CAggTf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB38gBG,MAAO,KlB28gBO,QkB38gBP,ElB28gBiB,CkB38gBjB,C;;QlB68gBd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBx9gBA,iB;MlBw9gBA,sC;QAeiB,Q;QAFb,IAphTO,qBAAQ,CAohTf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB/9gBG,MAAO,KlB+9gBO,QkB/9gBP,ElB+9gBiB,CkB/9gBjB,C;;QlBi+gBd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkB5+gBA,iB;MlB4+gBA,sC;QAeiB,Q;QAFb,IAxiTO,qBAAQ,CAwiTf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBn/gBG,MAAO,KlBm/gBO,QkBn/gBP,ElBm/gBiB,CkBn/gBjB,C;;QlBq/gBd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBhghBA,iB;MlBghBA,sC;QAeiB,Q;QAFb,IA5jTO,qBAAQ,CA4jTf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBvghBG,MAAO,KlBughBO,QkBvghBP,ElBughBiB,CkBvghBjB,C;;QlByghBd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBpihBA,iB;MlBoihBA,sC;QAeiB,Q;QAFb,IAhlTO,qBAAQ,CAglTf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB3ihBG,MAAO,KlB2ihBO,QkB3ihBP,ElB2ihBiB,CkB3ihBjB,C;;QlB6ihBd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBxjhBA

CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBpqgBG,MAAO,KlBoqgBO,QkBpqgBP,ElBoqgBiB,CkBpqgBjB,C;;QlBsqgBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBjrgBA,iB;MlBirgBA,sC;QAaiB,Q;QAFb,IAxtRO,qBAAQ,CAwtRf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBxrgBG,MAAO,KlBwrgBO,QkBxrgBP,ElBwrgBiB,CkBxrgBjB,C;;QlB0rgBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBrsgBA,iB;MlBqsgBA,sC;QAaiB,Q;QAFb,IApuRO,qBAAQ,CAouRf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB5sgBG,MAAO,KlB4sgBO,QkB5sgBP,ElB4sgBiB,CkB5sgBjB,C;;QlB8sgBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBztgBA,iB;MlBytgBA,sC;QAaiB,Q;QAFb,IAhvRO,qBAAQ,CAgvRf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBhugBG,MAAO,KlBgugBO,QkBhugBP,ElBgugBiB,CkBhugBjB,C;;QlBkugBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkB7vgBA,iB;MlB6vgBA,sC;QAaiB,Q;QAFb,IA5wRO,qBAAQ,CA4wRf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WkBpxgBG,MAAO,KlBoxgBO,QkBpxgBP,ElBoxgBiB,CkBpxgBjB,C;;QlBsxgBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBjygBA,iB;MlBiygBA,sC;QAaiB,Q;QAFb,IAxyRO,qBAAQ,CAwyRf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB5zgBG,MAAO,KlB4zgBO,QkB5zgBP,ElB4zgBiB,CkB5zgBjB,C;;QlB8zgBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBz0gBA,iB;MlBy0gBA,sC;QAaiB,Q;QAFb,IApzRO,qBAAQ,CAozRf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBh1gBG,MAAO,KlBg1gBO,QkBh1gBP,ElBg1gBiB,CkBh1gBjB,C;;QlBk1gBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkB72gBA,iB;MlB62gBA,sC;QAaiB,Q;QAFb,IA50RO,qBAAQ,CA40Rf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBp3gBG,MAAO,KlBo3gBO,QkBp3gBP,ElBo3gBiB,CkBp3gBjB,C;;QlBs3gBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBj4gBA,iB;MlBi4gBA,sC;QAaiB,Q;QAFb,IAx2RO,qBAAQ,CAw2Rf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB55gBG,MAAO,KlB45gBO,QkB55gBP,ElB45gBiB,CkB55gBjB,C;;QlB85gBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBz6gBA,iB;MlBy6gBA,sC;QAaiB,Q;QAFb,IAp5RO,qBAAQ,CAo5Rf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBh7gBG,MAAO,KlBg7gBO,QkBh7gBP,ElBg7gBiB,CkBh7gBjB,C;;QlBk7gBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkB78gBA,iB;MlB68gBA,sC;QAaiB,Q;QAFb,IA57RO,qBAAQ,CA47Rf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBp9gBG,MAAO,KlBo9gBO,QkBp9gBP,ElBo9gBiB,CkBp9gBjB,C;;QlBs9gBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBj+gBA,iB;MlBi+gBA,sC;QAaiB,Q;QAFb,IAx8RO,qBAAQ,CAw8Rf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB5+gBG,MAAO,KlB4+gBO,QkB5+gBP,ElB4+gBiB,CkB5+gBjB,C;;QlB8+gBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBzghBA,iB;MlBygBA,sC;QAaiB,Q;QAFb,IAp/RO,qBAAQ,CAo/Rf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBhhgBG,MAAO,KlBghgBO,QkBhhgBP,ElBghgBiB,CkBhhgBjB,C;;QlBkhgBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkB7igBA,iB;MlB6igBA,sC;QAaiB,Q;QAFb,IA5gSO,qBAAQ,CA4gSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBpjgBG,MAAO,KlBojgBO,QkBpjgBP,ElBojgBiB,CkBpjgBjB,C;;QlBsjgBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBjkgBA,iB;MlBikgBA,sC;QAaiB,Q;QAFb,IAxiSO,qBAAQ,CAwiSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB5kgBG,MAAO,KlB4kgBO,QkB5kgBP,ElB4kgBiB,CkB5kgBjB,C;;QlB8kgBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBzlgBA,iB;MlBylgBA,sC;QAaiB,Q;QAFb,IApkSO,qBAAQ,CAokSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBhmgBG,MAAO,KlBgmgBO,QkBhmgBP,ElBgmgBiB,CkBhmgBjB,C;;QlBkmgBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkB7ngBA,iB;MlB6ngBA,sC;QAaiB,Q;QAFb,IA5lSO,qBAAQ,CA4lSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBpngBG,MAAO,KlBongBO,QkBpngBP,ElBongBiB,CkBpngBjB,C;;QlBsngBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBjogBA,iB;MlBiogBA,sC;QAaiB,Q;QAFb,IAxnSO,qBAAQ,CAwnSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB5ogBG,MAAO,KlB4ogBO,QkB5ogBP,ElB4ogBiB,CkB5ogBjB,C;;QlB8ogBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBzpgBA,iB;MlBypgBA,sC;QAaiB,Q;QAFb,IApoSO,qBAAQ,CAooSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBhqgBG,MAAO,KlBgqgBO,QkBhqgBP,ElBgqgBiB,CkBhqgBjB,C;;QlBkqgBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkB7qgBA,iB;MlB6qgBA,sC;QAaiB,Q;QAFb,IA5pSO,qBAAQ,CA4pSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBprgBG,MAAO,KlBorgBO,QkBprgBP,ElBorgBiB,CkBprgBjB,C;;QlBsrgBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBjsgBA,iB;MlBisgBA,sC;QAaiB,Q;QAFb,IAxqSO,qBAAQ,CAwqSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB5sgBG,MAAO,KlB4sgBO,QkB5sgBP,ElB4sgBiB,CkB5sgBjB,C;;QlB8sgBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBztgBA,iB;MlBytgBA,sC;QAaiB,Q;QAFb,IApsSO,qBAAQ,CAosSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBhugBG,MAAO,KlBgugBO,QkBhugBP,ElBgugBiB,CkBhugBjB,C;;QlBkugBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkB7vgBA,iB;MlB6vgBA,sC;QAaiB,Q;QAFb,IA5tSO,qBAAQ,CA4tSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBpwgBG,MAAO,KlBowgBO,QkBpwgBP,ElBowgBiB,CkBpwgBjB,C;;QlBswgBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBjxgBA,iB;MlBixgBA,sC;QAaiB,Q;QAFb,IAxvSO,qBAAQ,CAwvSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB5xgBG,MAAO,KlB4xgBO,QkB5xgBP,ElB4xgBiB,CkB5xgBjB,C;;QlB8xgBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBzygBA,iB;MlBygBA,sC;QAaiB,Q;QAFb,IApwSO,qBAAQ,CAowSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBhzgBG,MAAO,KlBgzgBO,QkBhzgBP,ElBgzgBiB,CkBhzgBjB,C;;QlBkzgBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkB70gBA,iB;MlB60gBA,sC;QAaiB,Q;QAFb,IA5xSO,qBAAQ,CA4xSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBp1gBG,MAAO,KlBo1gBO,QkBp1gBP,ElBo1gBiB,CkBp1gBjB,C;;QlBs1gBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBj2gBA,iB;MlBi2gBA,sC;QAaiB,Q;QAFb,IAxzSO,qBAAQ,CAwzSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB52gBG,MAAO,KlB42gBO,QkB52gBP,ElB42gBiB,CkB52gBjB,C;;QlB82gBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBz3gBA,iB;MlBy3gBA,sC;QAaiB,Q;QAFb,IApyTO,qBAAQ,CAoyTf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBh4gBG,MAAO,KlBg4gBO,QkBh4gBP,ElBg4gBiB,CkBh4gBjB,C;;QlBk4gBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkB75gBA,iB;MlB65gBA,sC;QAaiB,Q;QAFb,IA5wTO,qBAAQ,CA4wTf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBp5gBG,MAAO,KlBo5gBO,QkBp5gBP,ElBo5gBiB,CkBp5gBjB,C;;QlBs5gBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBj6gBA,iB;MlBi6gBA,sC;QAaiB,Q;QAFb,IAxvTO,qBAAQ,CAwvTf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB56gBG,MAAO,KlB46gBO,QkB56gBP,ElB46gBiB,CkB56gBjB,C;;QlB86gBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBz7gBA,iB;MlBy7gBA,sC;QAaiB,Q;QAFb,IApuTO,qBAAQ,CAouTf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBh8gBG,MAAO,KlBg8gBO,QkBh8gBP,ElBg8gBiB,CkBh8gBjB,C;;QlBk8gBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkB79gBA,iB;MlB69gBA,sC;QAaiB,Q;QAFb,IA5sTO,qBAAQ,CA4sTf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBp9gBG,MAAO,KlBo9gBO,QkBp9gBP,ElBo9gBiB,CkBp9gBjB,C;;QlBs9gBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBj+gBA,iB;MlBi+gBA,sC;QAaiB,Q;QAFb,IAxrTO,qBAAQ,CAwrTf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB5+gBG,MAAO,KlB4+gBO,QkB5+gBP,ElB4+gBiB,CkB5+gBjB,C;;QlB8+gBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBzghBA,iB;MlBygBA,sC;QAaiB,Q;QAFb,IApqTO,qBAAQ,CAoqTf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBhhgBG,MAAO,KlBghgBO,QkBhhgBP,ElBghgBiB,CkBhhgBjB,C;;QlBkhgBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkB7igBA,iB;MlB6igBA,sC;QAaiB,Q;QAFb,IA5oTO,qBAAQ,CA4oTf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBpjgBG,MAAO,KlBojgBO,QkBpjgBP,ElBojgBiB,CkBpjgBjB,C;;QlBsjgBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBjkgBA,iB;MlBikgBA,sC;QAaiB,Q;QAFb,IAxnTO,qBAAQ,CAwnTf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB5kgBG,MAAO,KlB4kgBO,QkB5kgBP,ElB4kgBiB,CkB5kgBjB,C;;QlB8kgBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBzlgBA,iB;MlBylgBA,sC;QAaiB,Q;QAFb,IApmTO,qBAAQ,CAomTf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBhmgBG,MAAO,KlBgmgBO,QkBhmgBP,ElBgmgBiB,CkBhmgBjB,C;;QlBkmgBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkB7ngBA,iB;MlB6ngBA,sC;QAaiB,Q;QAFb,IA5kTO,qBAAQ,CA4kTf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBpngBG,MAAO,KlBongBO,QkBpngBP,ElBongBiB,CkBpngBjB,C;;QlBsngBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBjogBA,iB;MlBiogBA,sC;QAaiB,Q;QAFb,IAxjTO,qBAAQ,CAwjTf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB5ogBG,MAAO,KlB4ogBO,QkB5ogBP,ElB4ogBiB,CkB5ogBjB,C;;QlB8ogBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBzpgBA,iB;MlBypgBA,sC;QAaiB,Q;QAFb,IApiTO,qBAAQ,CAoiTf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBhqgBG,MAAO,KlBgqgBO,QkBhqgBP,ElBgqgBiB,CkBhqgBjB,C;;QlBkqgBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkB7qgBA,iB;MlB6qgBA,sC;QAaiB,Q;QAFb,IA5hTO,qBAAQ,CA4hTf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBprgBG,MAAO,KlBorgBO,QkBprgBP,ElBorgBiB,CkBprgBjB,C;;QlBsrgBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBjsgBA,iB;MlBisgBA,sC;QAaiB,Q;QAFb,IAxgTO,qBAAQ,CAwgTf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB5sgBG,MAAO,KlB4sgBO,QkB5sgBP,ElB4sgBiB,CkB5sgBjB,C;;QlB8sgBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBztgBA,iB;MlBytgBA,sC;QAaiB,Q;QAFb,IApfTO,qBAAQ,CAofTf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBhugBG,MAAO,KlBgugBO,QkBhugBP,ElBgugBiB,CkBhugBjB,C;;QlBkugBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkB7vgBA,iB;MlB6vgBA,sC;QAaiB,Q;QAFb,IA5dTO,qBAAQ,CA4dTf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBpwgBG,MAAO,KlBowgBO,QkBpwgBP,ElBowgBiB,CkBpwgBjB,C;;QlBswgBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBjxgBA,iB;MlBixgBA,sC;QAaiB,Q;QAFb,IAxbTO,qBAAQ,CAwbTf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB5xgBG,MAAO,KlB4xgBO,QkB5xgBP,ElB4xgBiB,CkB5xgBjB,C;;QlB8xgBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBzygBA,iB;MlBygBA,sC;QAaiB,Q;QAFb,IApZTO,qBAAQ,CAoZTf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBhzgBG,MAAO,KlBgzgBO,QkBhzgBP,ElBgzgBiB,CkBhzgBjB,C;;QlBkzgBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkB70gBA,iB;MlB60gBA,sC;QAaiB,Q;QAFb,IA5XTO,qBAAQ,CA4XTf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBp1gBG,MAAO,KlBo1gBO,QkBp1gBP,ElBo1gBiB,CkBp1gBjB,C;;QlBs1gBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBj2gBA,iB;MlBi2gBA,sC;QAaiB,Q;QAFb,IAxVTO,qBAAQ,CAwVTf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB52gBG,MAAO,KlB42gBO,QkB52gBP,ElB42gBiB,CkB52gBjB,C;;QlB82gBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBz3gBA,iB;MlBy3gBA,sC;QAaiB,Q;QAFb,IApTTO,qBAAQ,CAoTTf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBh4gBG,MAAO,KlBg4gBO,QkBh4gBP,ElBg4gBiB,CkBh4gBjB,C;;QlBk4gBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkB75gBA,iB;MlB65gBA,sC;QAaiB,Q;QAFb,IA5RTO,qBAAQ,CA4RTf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBp5gBG,MAAO,KlBo5gBO,QkBp5gBP,ElBo5gBiB,CkBp5gBjB,C;;QlBs5gBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBj6gBA,iB;MlBi6gBA,sC;QAaiB,Q;QAFb,IAxPTO,qBAAQ,CAwPTf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB56gBG,MAAO,KlB46gBO,QkB56gBP,ElB46gBiB,CkB56gBjB,C;;QlB86gBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBz7gBA,iB;MlBy7gBA,sC;QAaiB,Q;QAFb,IApNTO,qBAAQ,CAoNTf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBh8gBG,MAAO,KlBg8gBO,QkBh8gBP,ElBg8gBiB,CkBh8gBjB,C;;QlBk8gBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkB79gBA,iB;MlB69gBA,sC;QAaiB,Q;QAFb,IA5LTO,qBAAQ,CA4LTf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBp9gBG,MAAO,KlBo9gBO,QkBp9gBP,ElBo9gBiB,CkBp9gBjB,C;;QlBs9gBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBj+gBA,iB;MlBi+gBA,sC;QAaiB,Q;QAFb,IAxJTO,qBAAQ,CAwJTf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB5+gBG,MAAO,KlB4+gBO,QkB5+gBP,ElB4+gBiB,CkB5+gBjB,C;;QlB8+gBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBzghBA,iB;MlBygBA,sC;QAaiB,Q;QAFb,IApHTO,qBAAQ,CAoHTf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBhhgBG,MAAO,KlBghgBO,QkBhhgBP,ElBghgBiB,CkBhhgBjB,C;;QlBkhgBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkB7igBA,iB;MlB6igBA,sC;QAaiB,Q;QAFb,IA5FTO,qBAAQ,CA4FTf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBpjgBG,MAAO,KlBojgBO,QkBpjgBP,ElBojgBiB,CkBpjgBjB,C;;QlBsjgBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBjkgBA,iB;MlBikgBA,sC;QAaiB,Q;QAFb,IAxETO,qBAAQ,CAwETf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB5kgBG,MAAO,KlB4kgBO,QkB5kgBP,ElB4kgBiB,CkB5kgBjB,C;;QlB8kgBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBzlgBA,iB;MlBylgBA,sC;QAaiB,Q;QAFb,IApDTO,qBAAQ,CAoDTf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBhmgBG,MAAO,KlBgmgBO,QkBhmgBP,ElBgmgBiB,CkBhmgBjB,C;;QlBkmgBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkB7ngBA,iB;MlB6ngBA,sC;QAaiB,Q;QAFb,IA5CTO,qBAAQ,CA4CTf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBpngBG,MAAO,KlBongBO,QkBpngBP,ElBongBiB,CkBpngBjB,C;;QlBsngBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBjogBA,iB;MlBiogBA,sC;QAaiB,Q;QAFb,IAxBTO,qBAAQ,CAwBTf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB5ogBG,MAAO,KlB4ogBO,QkB5ogBP,ElB4ogBiB,CkB5ogBjB,C;;QlB8ogBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBzpgBA,iB;MlBypgBA,sC;QAaiB,Q;QAFb,IApBTO,qBAAQ,CAoBTf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBhqgBG,MAAO,KlBgqgBO,QkBhqgBP,ElBgqgBiB,CkBhqgBjB,C;;QlBkqgBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkB7qgBA,iB;MlB6qgBA,sC;QAaiB,Q;QAFb,IAAAO,qBAAQ

AK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+F
AoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA1hSO,qBAAQ,CA0hSf,C;UAAe,OAAO,I;QACtB,eAAe,SA
AS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UA
CR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;M
AAA,sC;QAWiB,Q;QAFb,IAtiSO,qBAAQ,CAsiSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,
C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,
KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAljSO,qBAAQ,CAkjSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;
QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA9jSO,qBAAQ,CA8jSf,C;
UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAj
BX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA1kSO,qBAAQ,CA0kSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAtlSO,qBAAQ,CAslSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAllSO,qBAAQ,CAklSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAmmSO,qBAAQ,CAmmSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAnnSO,qBAAQ,CAmnSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAonSO,qBAAQ,CAonSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IApoSO,qBAAQ,CAooSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAqpSO,qBAAQ,CAqpSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IArqSO,qBAAQ,CAqqSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAsrSO,qBAAQ,CAsrSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAtsSO,qBAAQ,CAssSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAutSO,qBAAQ,CAutSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAvuSO,qBAAQ,CAuuSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAwvSO,qBAAQ,CAwvSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAxwSO,qBAAQ,CAwwSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAyxSO,qBAAQ,CAyxSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAzySO,qBAAQ,CAyySf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA0zSO,qBAAQ,CA0zSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA1zSO,qBAAQ,CA0zSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA2zSO,qBAAQ,CA2zSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA3zSO,qBAAQ,CA2zSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA4zSO,qBAAQ,CA4zSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA5zSO,qBAAQ,CA4zSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA6zSO,qBAAQ,CA6zSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA7zSO,qBAAQ,CA6zSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA8zSO,qBAAQ,CA8zSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA9zSO,qBAAQ,CA8zSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA+zSO,qBAAQ,CA+zSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAg0SO,qBAAQ,CAg0Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAi0SO,qBAAQ,CAi0Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAk0SO,qBAAQ,CAk0Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAm0SO,qBAAQ,CAm0Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAo0SO,qBAAQ,CAo0Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAq0SO,qBAAQ,CAq0Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAs0SO,qBAAQ,CAs0Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAu0SO,qBAAQ,CAu0Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAv0SO,qBAAQ,CAu0Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAw0SO,qBAAQ,CAw0Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAy0SO,qBAAQ,CAy0Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA00SO,qBAAQ,CA00Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA20SO,qBAAQ,CA20Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA40SO,qBAAQ,CA40Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA60SO,qBAAQ,CA60Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA80SO,qBAAQ,CA80Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA+0SO,qBAAQ,CA+0Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAg1SO,qBAAQ,CAg1Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAi1SO,qBAAQ,CAi1Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAk1SO,qBAAQ,CAk1Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAm1SO,qBAAQ,CAm1Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAo1SO,qBAAQ,CAo1Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAq1SO,qBAAQ,CAq1Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAs1SO,qBAAQ,CAs1Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAu1SO,qBAAQ,CAu1Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAw1SO,qBAAQ,CAw1Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAy1SO,qBAAQ,CAy1Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA01SO,qBAAQ,CA01Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA21SO,qBAAQ,CA21Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA41SO,qBAAQ,CA41Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA61SO,qBAAQ,CA61Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA81SO,qBAAQ,CA81Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA+1SO,qBAAQ,CA+1Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAg2SO,qBAAQ,CAg2Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAi2SO,qBAAQ,CAi2Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAk2SO,qBAAQ,CAk2Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAm2SO,qBAAQ,CAm2Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAo2SO,qBAAQ,CAo2Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,

AL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;Q
AGnB,OAAO,Q;O;KAnBX,C;0FAsBA,yB;MAAA,sE;MAAA,oC;MAAA,8D;MAAA,kD;QAaiB,Q;QAFb,IApzS
O,qBAAQ,CAozSf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,C
AAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,EAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAA
X,GAAkC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;oGAsBA,yB;MAAA,8D;MAAA,kD;QA
WiB,Q;QAFb,IAx4SO,qBAAQ,CAw4Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+
B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAA
kB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;sGAoBA,yB;MAAA,8D;
MAAA,kD;QAWiB,Q;QAFb,IAp5SO,qBAAQ,CAo5Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CA
AT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAA
Q,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;sGAoBA,y
B;MAAA,8D;MAAA,kD;QAWiB,Q;QAFb,IAh6SO,qBAAQ,CAg6Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UA
AK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAA
I,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjB
X,C;sGAoBA,yB;MAAA,8D;MAAA,kD;QAWiB,Q;QAFb,IA56SO,qBAAQ,CA46Sf,C;UAAe,OAAO,I;QACtB,e
AAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAA
T,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;QAGnB,O
AAO,Q;O;KAjBX,C;sGAoBA,yB;MAAA,8D;MAAA,kD;QAWiB,Q;QAFb,IAx7SO,qBAAQ,CAw7Sf,C;UAAe,O
AAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UA
AK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAA
W,C;;QAGnB,OAAO,Q;O;KAjBX,C;sGAoBA,yB;MAAA,8D;MAAA,kD;QAWiB,Q;QAFb,IAp8SO,qBAAQ,CA
o8Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,Q
AAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC
,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;sGAoBA,yB;MAAA,8D;MAAA,kD;QAWiB,Q;QAFb,IAh9S
O,qBAAQ,CAg9Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAA
V,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,G
AAkC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;sGAoBA,yB;MAAA,8D;MAAA,kD;QAWiB,
Q;QAFb,IA59SO,qBAAQ,CA49Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QA
Ab,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,C
AAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;sGAoBA,yB;MAAA,oC;MAA
A,8D;MAAA,kD;QAWiB,Q;QAFb,IAx+SO,qBAAQ,CAw+Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CA
AL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,EAAT,C;UACR,IAAI,UAA
W,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;IA
oBA,8B;MASiB,Q;MAFb,IA1jTO,qBAAQ,CA0jTf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,+
B;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,MkB1/hBG,MAAO,KlB0/hBE,GkB1/hBF,ElB0
/hBO,CkB1/hBP,C;;MlB4/hBd,OAAO,G;K;IAGX,gC;MASiB,Q;MAFb,IA1kTO,qBAAQ,CA0kTf,C;QAAe,OAA
O,I;MACtB,UAAU,UAAK,CAAL,C;MACG,+B;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,
MkBrhiBG,MAAO,KlBqhiBE,GkBrhiBF,ElBqhiBO,CkBrhiBP,C;;MlBuhiBd,OAAO,G;K;IAGX,gC;MAOiB,Q;M
AFb,IAxlTO,qBAAQ,CAwlTf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,+B;MAAb,aAAU,CAA
V,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,sBAAM,CAAN,KAAJ,C;UAAa,MAAM,C;;MAEvB,OAAO,G;
K;IAGX,gC;MAOiB,Q;MAFb,IA9lTO,qBAAQ,CA8lTf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MAC
G,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,MAAM,CAAV,C;UAAa,MAAM,C;;M
AEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IApmTO,qBAAQ,CAomTf,C;QAAe,OAAO,I;MACtB,UAAU,UA
AK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,MAAM,CAAV,C;
UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IA1mTO,qBAAQ,CA0mTf,C;QAAe,OAAO,I
;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI
,MAAM,CAAV,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAhnTO,qBAAQ,CAgnTf,
C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CA

AL,C;QACR,IAAI,oBAAM,CAAN,KAAJ,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MASiB,Q;MAFb,IAxnTO,qBAAQ,CAwnTf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,MkB3miBG,MAAO,KlB2miBE,GkB3miBF,ElB2miBO,CkB3miBP,C;;MlB6miBd,OAAO,G;K;IAGX,gC;MASiB,Q;MAFb,IAhoTO,qBAAQ,CAgoTf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,MkBhniBG,MAAO,KlBgniBE,GkBhniBF,ElBgniBO,CkBhniBP,C;;MlBkniBd,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IA9nTO,qBAAQ,CA8nTf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,MAAM,CAAV,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,wC;MAGI,OAAO,yBAAc,UAAd,C;K;IAGX,0C;MAGI,OAAO,2BAAc,UAAd,C;K;IAGX,0C;MAGI,OAAO,2BAAc,UAAd,C;K;IAGX,0C;MAGI,OAAO,2BAAc,UAAd,C;K;IAGX,0C;MAGI,OAAO,2BAAc,UAAd,C;K;IAGX,0C;MAGI,OAAO,2BAAc,UAAd,C;K;IAGX,0C;MAGI,OAAO,2BAAc,UAAd,C;K;IAGX,0C;MAGI,OAAO,2BAAc,UAAd,C;K;IAGX,0C;MAGI,OAAO,2BAAc,UAAd,C;K;IAGX,8C;MAOiB,Q;MAFb,IAlwTO,qBAAQ,CAkwTf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,+B;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAxwTO,qBAAQ,CAwwTf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA9wTO,qBAAQ,CA8wTf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IApxTO,qBAAQ,CAoxTf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA1xTO,qBAAQ,CA0xTf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAhyTO,qBAAQ,CAgyTf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAtyTO,qBAAQ,CAsyTf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA5yTO,qBAAQ,CA4yTf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAlzTO,qBAAQ,CAkzTf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAxzTO,qBAAQ,CAwzTf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA9zTO,qBAAQ,CA8zTf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IApzTO,qBAAQ,CAozTf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA1zTO,qBAAQ,CA0zTf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAh0TO,qBAAQ,CAg0Tf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAt0TO,qBAAQ,CAs0Tf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA50TO,qBAAQ,CA40Tf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAl1TO,qBAAQ,CAk1Tf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAx1TO,qBAAQ,CAw1Tf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA91TO,qBAAQ,CA81Tf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAp2TO,qBAAQ,CAo2Tf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA12TO,qBAAQ,CA02Tf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAh3TO,qBAAQ,CAg3Tf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAt3TO,qBAAQ,CAs3Tf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA53TO,qBAAQ,CA43Tf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAl4TO,qBAAQ,CAk4Tf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAx4TO,qBAAQ,CAw4Tf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA94TO,qBAAQ,CA84Tf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAp5TO,qBAAQ,CAo5Tf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA15TO,qBAAQ,CA05Tf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAh6TO,qBAAQ,CAg6Tf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAt6TO,qBAAQ,CAs6Tf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA56TO,qBAAQ,CA46Tf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAl7TO,qBAAQ,CAk7Tf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAx7TO,qBAAQ,CAw7Tf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA97TO,qBAAQ,CA87Tf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAp8TO,qBAAQ,CAo8Tf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA18TO,qBAAQ,CA08Tf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAh9TO,qBAAQ,CAg9Tf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAt9TO,qBAAQ,CAs9Tf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA59TO,qBAAQ,CA49Tf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAp+TO,qBAAQ,CAo+Tf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA1+TO,qBAAQ,CA0+Tf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAh/TO,qBAAQ,CAg/Tf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAt/TO,qBAAQ,CAs/Tf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA5/TO,qBAAQ,CA4/Tf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAlgUO,qBAAQ,CAkgUf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAxgUO,qBAAQ,CAwgUf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA9gUO,qBAAQ,CA8gUf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IApgUO,qBAAQ,CAogUf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA1gUO,qBAAQ,CA0gUf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAhhUO,qBAAQ,CAghUf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAthUO,qBAAQ,CAshUf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA5hUO,qBAAQ,CA4hUf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAliUO,qBAAQ,CAkiUf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAxiUO,qBAAQ,CAwiUf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA9iUO,qBAAQ,CA8iUf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IApjUO,qBAAQ,CAojUf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA1jUO,qBAAQ,CA0jUf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAhkUO,qBAAQ,CAgkUf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAtkUO,qBAAQ,CAskUf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA5kUO,qBAAQ,CA4kUf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAllUO,qBAAQ,CAklUf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAxlUO,qBAAQ,CAwlUf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA9lUO,qBAAQ,CA8lUf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IApmUO,qBAAQ,CAomUf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA1mUO,qBAAQ,CA0mUf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAhnUO,qBAAQ,CAgnUf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAtnUO,qBAAQ,CAsnUf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA5nUO,qBAAQ,CA4nUf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAloUO,qBAAQ,CAkoUf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,EAAgB,CAAhB,EAAmB,GAAnB,C;UAAsB,MAAM,C;;ME9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,

GX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ
,C;UAAwB,OAAO,K;;MACrD,OAAO,I;K;iFAGX,yB;MAAA,oC;MAAA,gC;MAAA,uC;QAMoB,Q;QAAhB,wB
AAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UAAsB,IAAI,UAAU,oBAAV,CAAJ,C;YAAwB,OAAO,K
;;QACrD,OAAO,I;O;KAPX,C;kFAUA,6B;MAMmC,Q;MAAhB,iD;QAAgB,cAAhB,e;QAAsB,OAAO,OAAP,C;;
MAArC,gB;K;oFAGJ,6B;MAMmC,Q;MAAhB,iD;QAAgB,cAAhB,e;QAAsB,OAAO,OAAP,C;;MAArC,gB;K;oF
AGJ,6B;MAMmC,Q;MAAhB,iD;QAAgB,cAAhB,e;QAAsB,OAAO,OAAP,C;;MAArC,gB;K;oFAGJ,6B;MAMmC
,Q;MAAhB,iD;QAAgB,cAAhB,e;QAAsB,OAAO,OAAP,C;;MAArC,gB;K;oFAGJ,6B;MAMmC,Q;MAAhB,iD;Q
AAgB,cAAhB,e;QAAsB,OAAO,OAAP,C;;MAArC,gB;K;oFAGJ,6B;MAMmC,Q;MAAhB,iD;QAAgB,cAAhB,e;
QAAsB,OAAO,OAAP,C;;MAArC,gB;K;oFAGJ,6B;MAMmC,Q;MAAhB,iD;QAAgB,cAAhB,e;QAAsB,OAAO,O
AAP,C;;MAArC,gB;K;oFAGJ,6B;MAMmC,Q;MAAhB,iD;QAAgB,cAAhB,e;QAAsB,OAAO,OAAP,C;;MAArC,
gB;K;oFAGJ,yB;MAAA,oC;MAAA,gC;MAAA,oC;QAMmC,Q;QAAhB,iD;UAAgB,cAAhB,0B;UAAsB,OAAO,o
BAAP,C;;QAArC,gB;O;KANJ,C;gGASA,6B;MArjJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,
QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA8jJnB,gB;K;kGAGJ,6B;MAvjJiB,gB;MADb,YAAY,C;MAC
Z,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAgkJnB,gB;K;kGAGJ,6B;MAz
jJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;M
AkkJnB,gB;K;kGAGJ,6B;MA3jJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAokJnB,gB;K;kGAGJ,6B;MA7jJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAskJnB,gB;K;kGAGJ,6B;MA/jJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA0kJnB,gB;K;kGAGJ,6B;MAjkJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA4kJnB,gB;K;kGAGJ,6B;MAnkJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA8kJnB,gB;K;kGAGJ,6B;MArkJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAglJnB,gB;K;kGAGJ,6B;MAvkJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAklJnB,gB;K;kGAGJ,6B;MAzkJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAolJnB,gB;K;kGAGJ,6B;MA3kJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAslJnB,gB;K;kGAGJ,6B;MA7kJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAwlJnB,gB;K;kGAGJ,6B;MA/kJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA0lJnB,gB;K;kGAGJ,6B;MAjlJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA4lJnB,gB;K;kGAGJ,6B;MAnlJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA8lJnB,gB;K;kGAGJ,6B;MArlJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAgmJnB,gB;K;kGAGJ,6B;MAvlJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAkmJnB,gB;K;kGAGJ,6B;MAzlJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAomJnB,gB;K;kGAGJ,6B;MA3lJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAsmJnB,gB;K;kGAGJ,6B;MA7lJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAwmJnB,gB;K;kGAGJ,6B;MA/lJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA0mJnB,gB;K;kGAGJ,6B;MAjmJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA4mJnB,gB;K;kGAGJ,6B;MAnmJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA8mJnB,gB;K;kGAGJ,6B;MArmJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAgnJnB,gB;K;kGAGJ,6B;MAvmJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAknJnB,gB;K;kGAGJ,6B;MAznJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAonJnB,gB;K;kGAGJ,6B;MA3nJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAsnJnB,gB;K;kGAGJ,6B;MA7nJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAwnJnB,gB;K;kGAGJ,6B;MA/nJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA0nJnB,gB;K;kGAGJ,6B;MAjoJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA4nJnB,gB;K;kGAGJ,6B;MAnoJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA8nJnB,gB;K;kGAGJ,6B;MAroJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAgoJnB,gB;K;kGAGJ,6B;MAvoJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAkoJnB,gB;K;kGAGJ,6B;MAzoJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAooJnB,gB;K;kGAGJ,6B;MA3oJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAsoJnB,gB;K;kGAGJ,6B;MA7oJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAwoJnB,gB;K;kGAGJ,6B;MA/oJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA0oJnB,gB;K;kGAGJ,6B;MAjpJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA4oJnB,gB;K;kGAGJ,6B;MAnpJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA8oJnB,gB;K;kGAGJ,6B;MArpJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAgpJnB,gB;K;kGAGJ,6B;MAvpJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAkpJnB,gB;K;kGAGJ,6B;MAzpJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAopJnB,gB;K;kGAGJ,6B;MA3pJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAspJnB,gB;K;kGAGJ,6B;MA7pJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAwpJnB,gB;K;kGAGJ,6B;MA/pJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA0pJnB,gB;K;kGAGJ,6B;MAjqJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA4pJnB,gB;K;kGAGJ,6B;MAnqJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA8pJnB,gB;K;kGAGJ,6B;MArqJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAgqJnB,gB;K;kGAGJ,6B;MAvqJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAkqJnB,gB;K;kGAGJ,6B;MAzqJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAoqJnB,gB;K;kGAGJ,6B;MA3qJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAsqJnB,gB;K;kGAGJ,6B;MA7qJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAwqJnB,gB;K;kGAGJ,6B;MA/qJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA0qJnB,gB;K;kGAGJ,6B;MAjrJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA4qJnB,gB;K;kGAGJ,6B;MAnrJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA8qJnB,gB;K;kGAGJ,6B;MArrJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAgrJnB,gB;K;kGAGJ,6B;MAvrJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAkrJnB,gB;K;kGAGJ,6B;MAzrJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAorJnB,gB;K;kGAGJ,6B;MA3rJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAsrJnB,gB;K;kGAGJ,6B;MA7rJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAwrJnB,gB;K;kGAGJ,6B;MA/rJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA0rJnB,gB;K;kGAGJ,6B;MAjsJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA4rJnB,gB;K;kGAGJ,6B;MAnsJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA8rJnB,gB;K;kGAGJ,6B;MArsJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAgsJnB,gB;K;kGAGJ,6B;MAvsJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAksJnB,gB;K;kGAGJ,6B;MAzsJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAosJnB,gB;K;kGAGJ,6B;MA3sJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAssJnB,gB;K;kGAGJ,6B;MA7sJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAwsJnB,gB;K;kGAGJ,6B;MA/sJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA0sJnB,gB;K;kGAGJ,6B;MAjtJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA4sJnB,gB;K;kGAGJ,6B;MAntJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA8sJnB,gB;K;kGAGJ,6B;MArtJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAgtJnB,gB;K;kGAGJ,6B;MAvtJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAktJnB,gB;K;kGAGJ,6B;MAztJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAotJnB,gB;K;kGAGJ,6B;MA3tJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAstJnB,gB;K;kGAGJ,6B;MA7tJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAwtJnB,gB;K;kGAGJ,6B;MA/tJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA0tJnB,gB;K;kGAGJ,6B;MAjuJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA4tJnB,gB;K;kGAGJ,6B;MAnuJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA8tJnB,gB;K;kGAGJ,6B;MAruJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAgvJnB,gB;K;kGAGJ,6B;MAvuJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAkvJnB,gB;K;kGAGJ,6B;MAzuJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAovJnB,gB;K;kGAGJ,6B;MA3uJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAsvJnB,gB;K;kGAGJ,6B;MA7uJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAwvJnB,gB;K;kGAGJ,6B;MA/uJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA0vJnB,gB;K;kGAGJ,6B;MAjvJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA4vJnB,gB;K;kGAGJ,6B;MAnvJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA8vJnB,gB;K;kGAGJ,6B;MArvJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAgwJnB,gB;K;kGAGJ,6B;MAvvJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAkwJnB,gB;K;kGAGJ,6B;MAzvJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAowJnB,gB;K;kGAGJ,6B;MA3vJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAswJnB,gB;K;kGAGJ,6B;MA7vJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAwwJnB,gB;K;kGAGJ,6B;MA/vJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA0wJnB,gB;K;kGAGJ,6B;MAjwJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA4wJnB,gB;K;kGAGJ,6B;MAnwJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA8wJnB,gB;K;kGAGJ,6B;MArwJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAgxJnB,gB;K;kGAGJ,6B;MAvwJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAkxJnB,gB;K;kGAGJ,6B;MAzwJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAoxJnB,gB;K;kGAGJ,6B;MA3wJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAsxJnB,gB;K;kGAGJ,6B;MA7wJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAwxJnB,gB;K;kGAGJ,6B;MA/wJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA0xJnB,gB;K;kGAGJ,6B;MAjxJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA4xJnB,gB;K;kGAGJ,6B;MAnxJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA8xJnB,gB;K;kGAGJ,6B;MArxJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAgyJnB,gB;K;kGAGJ,6B;MAvxJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAkyJnB,gB;K;kGAGJ,6B;MAzxJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAoyJnB,gB;K;kGAGJ,6B;MA3xJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAsyJnB,gB;K;kGAGJ,6B;MA7xJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAwyJnB,gB;K;kGAGJ,6B;MA/xJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA0yJnB,gB;K;kGAGJ,6B;MAjyJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA4yJnB,gB;K;kGAGJ,6B;MAnyJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA8yJnB,gB;K;kGAGJ,6B;MAryJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAgzJnB,gB;K;kGAGJ,6B;MAvyJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAkzJnB,gB;K;kGAGJ,6B;MAzyJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAozJnB,gB;K;kGAGJ,6B;MA3yJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAszJnB,gB;K;kGAGJ,6B;MA7yJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAwzJnB,gB;K;kGAGJ,6B;MA/yJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA0zJnB,gB;K;kGAGJ,6B;MAjzJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA4zJnB,gB;K;kGAGJ,6B;MAnzJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA8zJnB,gB;K;kGAGJ,6B;MArzJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAg0JnB,gB;K;kGAGJ,6B;MAvzJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAk0JnB,gB;K;kGAGJ,6B;MAzzJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAo0JnB,gB;K;kGAGJ,6B;MA3zJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAs0JnB,gB;K;kGAGJ,6B;MA7zJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAw0JnB,gB;K;kGAGJ,6B;MA/zJiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA00JnB,gB;K;kGAGJ,6B;MAj0JiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA40JnB,gB;K;kGAGJ,6B;MAn0JiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA80JnB,gB;K;kGAGJ,6B;MAr0JiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAg1JnB,gB;K;kGAGJ,6B;MAv0JiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAk1JnB,gB;K;kGAGJ,6B;MAz0JiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAo1JnB,gB;K;kGAGJ,6B;MA30JiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAs1JnB,gB;K;kGAGJ,6B;MA70JiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAw1JnB,gB;K;kGAGJ,6B;MA/0JiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA01JnB,gB;K;kGAGJ,6B;MAj1JiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA41JnB,gB;K;kGAGJ,6B;MAn1JiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MA81JnB,gB;K;kGAGJ,6B;MAr1JiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAg2JnB,gB;K;kGAGJ,6B;MAv1JiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,B,C;;MAk2JnB,gB;K;kGAGJ,6B;MAz1JiB,gB;MADb,YAAY,C;MACZ,iD;QAA

MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,oBAAU,wBAAV,EAAuB,sBAAK,KAAL,EAAvB,E;;QAElB,OAAO,W;O;KAnBX,C;gGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAt7UO,qBAAQ,CAs7Uf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAp8UO,qBAAQ,CAo8Uf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAl9UO,qBAAQ,CAk9Uf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAh+UO,qBAAQ,CAg+Uf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IA5+UO,qBAAQ,CA4+Uf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IA1/UO,qBAAQ,CA0/Uf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxgVO,qBAAQ,CAwgVf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxhVO,qBAAQ,CAwhVf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxiVO,qBAAQ,CAwiVf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxjVO,qBAAQ,CAwjVf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxkVO,qBAAQ,CAwkVf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxlVO,qBAAQ,CAwlVf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxmVO,qBAAQ,CAwmVf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxnVO,qBAAQ,CAwnVf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxoVO,qBAAQ,CAwoVf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxpVO,qBAAQ,CAwpVf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxqVO,qBAAQ,CAwqVf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxrVO,qBAAQ,CAwrVf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxsVO,qBAAQ,CAwsVf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxtVO,qBAAQ,CAwtVf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxuVO,qBAAQ,CAwuVf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxvVO,qBAAQ,CAwvVf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxwVO,qBAAQ,CAwwVf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxxVO,qBAAQ,CAwxVf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxyVO,qBAAQ,CAwyVf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxzVO,qBAAQ,CAwzVf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAx0VO,qBAAQ,CAw0Vf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAx1VO,qBAAQ,CAw1Vf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAx2VO,qBAAQ,CAw2Vf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAx3VO,qBAAQ,CAw3Vf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAx4VO,qBAAQ,CAw4Vf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAx5VO,qBAAQ,CAw5Vf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAx6VO,qBAAQ,CAw6Vf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAx7VO,qBAAQ,CAw7Vf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAx8VO,qBAAQ,CAw8Vf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAx9VO,qBAAQ,CAw9Vf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAx+VO,qBAAQ,CAw+Vf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAx/VO,qBAAQ,CAw/Vf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxgWO,qBAAQ,CAwgWf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxhWO,qBAAQ,CAwhWf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxiWO,qBAAQ,CAwiWf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxjWO,qBAAQ,CAwjWf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxkWO,qBAAQ,CAwkWf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxlWO,qBAAQ,CAwlWf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxmWO,qBAAQ,CAwmWf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxnWO,qBAAQ,CAwnWf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxoWO,qBAAQ,CAwoWf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxpWO,qBAAQ,CAwpWf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxqWO,qBAAQ,CAwqWf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxrWO,qBAAQ,CAwrWf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxsWO,qBAAQ,CAwsWf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxtWO,qBAAQ,CAwtWf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxuWO,qBAAQ,CAwuWf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxvWO,qBAAQ,CAwvWf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxwWO,qBAAQ,CAwwWf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxxWO,qBAAQ,CAwxWf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxyWO,qBAAQ,CAwyWf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxzWO,qBAAQ,CAwzWf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAx0WO,qBAAQ,CAw0WV,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAx1WO,qBAAQ,CAw1WV,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAx2WO,qBAAQ,CAw2WV,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAx3WO,qBAAQ,CAw3WV,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAx4WO,qBAAQ,CAw4WV,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAx5WO,qBAAQ,CAw5WV,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAx6WO,qBAAQ,CAw6WV,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAx7WO,qBAAQ,CAw7WV,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAx8WO,qBAAQ,CAw8WV,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAx9WO,qBAAQ,CAw9WV,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAx+WO,qBAAQ,CAw+WV,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAx/WO,qBAAQ,CAw/WV,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,

C;QAgBqB,Q;QAHjB,IA5uVO,qBAAQ,CA4uVf,C;UACI,OAAO,I;QACX,kBAAkB,UAAK,CAAL,C;QACD,+B;
QAAjB,iBAAc,CAAd,yB;UACI,cAAc,oBAAU,KAAV,EAAiB,wBAAjB,EAA8B,sBAAK,KAAL,EAA9B,E;;QAE
lB,OAAO,W;O;KAnBX,C;8FAsBA,yB;MAAA,8D;MAAA,uC;QAiBqB,Q;QAHjB,IAn0VO,qBAAQ,CAm0Vf,C;
UACI,OAAO,I;QACX,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAA
V,EAAuB,UAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KApBX,C;gGAuBA,yB;MAAA,8D;MAAA,uC;QAiBq
B,Q;QAHjB,IAl1VO,qBAAQ,CAk1Vf,C;UACI,OAAO,I;QACX,kBAAkB,UAAK,CAAL,C;QACD,+B;QAAjB,iB
AAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,UAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KApBX,C;g
GAuBA,yB;MAAA,8D;MAAA,uC;QAiBqB,Q;QAHjB,IAj2VO,qBAAQ,CAi2Vf,C;UACI,OAAO,I;QACX,kBAA
kB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,UAAK,KAAL,CA
AvB,C;;QAElB,OAAO,W;O;KApBX,C;gGAuBA,yB;MAAA,8D;MAAA,uC;QAiBqB,Q;QAHjB,IAh3VO,qBAA
Q,CAg3Vf,C;UACI,OAAO,I;QACX,kBAAkB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc
,UAAU,WAAV,EAAuB,UAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KApBX,C;gGAuBA,yB;MAAA,8D;MA
AA,uC;QAiBqB,Q;QAHjB,IA/3VO,qBAAQ,CA+3Vf,C;UACI,OAAO,I;QACX,kBAAkB,UAAK,CAAL,C;QACD
,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,UAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;
O;KApBX,C;gGAuBA,yB;MAAA,8D;MAAA,uC;QAiBqB,Q;QAHjB,IA94VO,qBAAQ,CA84Vf,C;UACI,OAAO,
I;QACX,kBAAkB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,U
AAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KApBX,C;gGAuBA,yB;MAAA,8D;MAAA,uC;QAiBqB,Q;QAHjB,
IA75VO,qBAAQ,CA65Vf,C;UACI,OAAO,I;QACX,kBAAkB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,
yB;UACI,cAAc,UAAU,WAAV,EAAuB,UAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KApBX,C;gGAuBA,yB;
MAAA,8D;MAAA,uC;QAiBqB,Q;QAHjB,IA56VO,qBAAQ,CA46Vf,C;UACI,OAAO,I;QACX,kBAAkB,UAAK,
CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,UAAK,KAAL,CAAvB,C;;Q
AElB,OAAO,W;O;KApBX,C;gGAuBA,yB;MAAA,8D;MAAA,oC;MAAA,gC;MAAA,uC;QAiBqB,Q;QAHjB,IA3
7VO,qBAAQ,CA27Vf,C;UACI,OAAO,I;QACX,kBAAkB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;
UACI,cAAc,oBAAU,wBAAV,EAAuB,sBAAK,KAAL,EAAvB,E;;QAElB,OAAO,W;O;KApBX,C;4FAuBA,yB;M
AAA,8D;MAAA,4F;MAAA,uC;QAe6B,UAEO,M;QAJhC,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,MAA
M,mCAA8B,+BAA9B,C;QACrB,kBAAqB,UAAI,YAAJ,EAAI,oBAAJ,O;QACrB,OAAO,SAAS,CAAhB,C;UACI,
cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAnBX,C;8FAsBA,yB
;MAAA,8D;MAAA,4F;MAAA,uC;QAe0B,UAEU,M;QAJhC,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,M
AAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C;U
ACI,cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAnBX,C;8FAsB
A,yB;MAAA,8D;MAAA,4F;MAAA,uC;QAe0B,UAEU,M;QAJhC,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAA
e,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C
;UACI,cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAnBX,C;8FAs
BA,yB;MAAA,8D;MAAA,4F;MAAA,uC;QAe0B,UAEU,M;QAJhC,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UA
Ae,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB
,C;UACI,cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAnBX,C;8F
AsBA,yB;MAAA,8D;MAAA,4F;MAAA,uC;QAe0B,UAEU,M;QAJhC,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;
UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CA
AhB,C;UACI,cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAnBX,
C;8FAsBA,yB;MAAA,8D;MAAA,4F;MAAA,uC;QAe0B,UAEU,M;QAJhC,YAAY,wB;QACZ,IAAI,QAAQ,CAA
Z,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,
CAAhB,C;UACI,cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAn
BX,C;8FAsBA,yB;MAAA,8D;MAAA,4F;MAAA,uC;QAe0B,UAEU,M;QAJhC,YAAY,wB;QACZ,IAAI,QAAQ,C
AAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SA
AS,CAAhB,C;UACI,cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;K
AnBX,C;8FAsBA,yB;MAAA,8D;MAAA,4F;MAAA,uC;QAe0B,UAEU,M;QAJhC,YAAY,wB;QACZ,IAAI,QAA
Q,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO
,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;

O;KAnBX,C;8FAsBA,yB;MAAA,8D;MAAA,4F;MAAA,oC;MAAA,gC;MAAA,uC;QAe0B,UAEU,M;QAJhC,YA
AY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,UAAI,YAAJ,EAAI
,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,oBAAU,sBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,wB
AAxB,E;;QAElB,OAAO,W;O;KAnBX,C;0GAsBA,yB;MAAA,8D;MAAA,4F;MAAA,uC;QAe6B,Q;QAFzB,YAA
Y,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAqB,UAAI,YAAJ,EAAI,o
BAAJ,O;QACrB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,UAAI,KAAJ,CAAjB,EAA6B,WA
A7B,C;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;4GAuBA,yB;MAAA,8D;MAAA,4F;MAAA,uC;QAe0B,Q;QAFt
B,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,UAAI,YAAJ,
EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,UAAI,KAAJ,CAAjB,EAA
6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;4GAuBA,yB;MAAA,8D;MAAA,4F;MAAA,uC;QAe0B,
Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,UAA
I,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,UAAI,KAAJ,CAAj
B,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;4GAuBA,yB;MAAA,8D;MAAA,4F;MAAA,uC;Q
Ae0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB
,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,UAAI,KAAJ,
CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;4GAuBA,yB;MAAA,8D;MAAA,4F;MAAA
,uC;QAe0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kB
AAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,UAAI,
KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;4GAuBA,yB;MAAA,8D;MAAA,4F;
MAAA,uC;QAe0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QA
CrB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB
,UAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;4GAuBA,yB;MAAA,8D;MA
AA,4F;MAAA,uC;QAe0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9
B,C;QACrB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV
,EAAiB,UAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;4GAuBA,yB;MAAA,
8D;MAAA,4F;MAAA,uC;QAe0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+
BAA9B,C;QACrB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,
KAAV,EAAiB,UAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;4GAuBA,yB;
MAAA,8D;MAAA,4F;MAAA,oC;MAAA,gC;MAAA,uC;QAe0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAQ,CAA
Z,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,
CAAhB,C;UACI,cAAc,oBAAU,KAAV,EAAiB,sBAAI,KAAJ,EAAjB,EAA6B,wBAA7B,E;UACd,qB;;QAEJ,OA
AO,W;O;KApBX,C;sHAuBA,yB;MAAA,8D;MAAA,uC;QAe6B,Q;QAFzB,YAAY,wB;QACZ,IAAI,QAAQ,CAA
Z,C;UAAe,OAAO,I;QACtB,kBAAqB,UAAI,YAAJ,EAAI,oBAAJ,O;QACrB,OAAO,SAAS,CAAhB,C;UACI,cAA
c,UAAU,KAAV,EAAiB,UAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;wHA
uBA,yB;MAAA,8D;MAAA,uC;QAe0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QAC
tB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,
UAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;wHAuBA,yB;MAAA,8D;MA
AA,uC;QAe0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAAkB,UAAI,YAA
J,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,UAAI,KAAJ,CAAjB,EA
A6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;wHAuBA,yB;MAAA,8D;MAAA,uC;QAe0B,Q;QAFtB
,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QACl
B,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,UAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,q
B;;QAEJ,OAAO,W;O;KApBX,C;wHAuBA,yB;MAAA,8D;MAAA,uC;QAe0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,
QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,
C;UACI,cAAc,UAAU,KAAV,EAAiB,UAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;K
ApBX,C;wHAuBA,yB;MAAA,8D;MAAA,uC;QAe0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,
OAAO,I;QACtB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,K
AAV,EAAiB,UAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;wHAuBA,yB;M

AAA,8D;MAAA,uC;QAe0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAAk
B,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,UAAI,KAA
J,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;wHAuBA,yB;MAAA,8D;MAAA,uC;QAe
0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAAkB,UAAI,YAAJ,EAAI,oB
AAJ,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,UAAI,KAAJ,CAAjB,EAA6B,WAA
7B,C;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;wHAuBA,yB;MAAA,8D;MAAA,oC;MAAA,gC;MAAA,uC;QAe0
B,Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAAkB,UAAI,YAAJ,EAAI,oBA
AJ,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,oBAAU,KAAV,EAAiB,sBAAI,KAAJ,EAAjB,EAA6B,wBAA
7B,E;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;wGAuBA,yB;MAAA,8D;MAAA,uC;QAgB6B,UAEO,M;QAJhC,
YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAAqB,UAAI,YAAJ,EAAI,oBAAJ,O;QACrB
,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAElB,OA
AO,W;O;KApBX,C;0GAuBA,yB;MAAA,8D;MAAA,uC;QAgB0B,UAEU,M;QAJhC,YAAY,wB;QACZ,IAAI,QA
AQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C;U
ACI,cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KApBX,C;0GAuB
A,yB;MAAA,8D;MAAA,uC;QAgB0B,UAEU,M;QAJhC,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,
I;QACtB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,cA
AJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KApBX,C;0GAuBA,yB;MAAA,8D;MAAA,uC
;QAgB0B,UAEU,M;QAJhC,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAAkB,UAAI,Y
AAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,EA
AwB,WAAxB,C;;QAElB,OAAO,W;O;KApBX,C;0GAuBA,yB;MAAA,8D;MAAA,uC;QAgB0B,UAEU,M;QAJh
C,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QAC
lB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAElB,O
AAO,W;O;KApBX,C;0GAuBA,yB;MAAA,8D;MAAA,uC;QAgB0B,UAEU,M;QAJhC,YAAY,wB;QACZ,IAAI,Q
AAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C;
UACI,cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KApBX,C;0GAu
BA,yB;MAAA,8D;MAAA,uC;QAgB0B,UAEU,M;QAJhC,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,OAA
O,I;QACtB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,c
AAJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KApBX,C;0GAuBA,yB;MAAA,8D;MAAA,
uC;QAgB0B,UAEU,M;QAJhC,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAAkB,UAAI
,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,E
AAwB,WAAxB,C;;QAElB,OAAO,W;O;KApBX,C;0GAuBA,yB;MAAA,8D;MAAA,oC;MAAA,gC;MAAA,uC;Q
AgB0B,UAEU,M;QAJhC,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAAkB,UAAI,YA
AJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,oBAAU,sBAAI,cAAJ,EAAI,sBAAJ,UAAV,EA
AwB,wBAAxB,E;;QAElB,OAAO,W;O;KApBX,C;4FAuBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAgBoB,Q;Q
AHhB,IAp0XO,qBAAQ,CAo0Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,
C;QAA+B,8B;QAA5C,aiBj9mBO,W;QjBk9mBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAh
B,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KApB
X,C;8FAuBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp1XO,qBAAQ,CAo1Xf,C;UAAe,OA
AO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBz+mBO,W;QjB0+m
BP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OA
AvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAA
A,gD;QAiBoB,Q;QAHhB,IAp2XO,qBAAQ,CAo2Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mB
AAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBjgnBO,W;QjBkgnBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UA
AgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,O
AAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp3XO,qBAAQ,CAo
3Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBzh
nBO,W;QjB0hnBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WA
AV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;

MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp4XO,qBAAQ,CAo4Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBjjnBO,W;QjBkjnBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp5XO,qBAAQ,CAo5Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBzknBO,W;QjB0knBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp6XO,qBAAQ,CAo6Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBjmnBO,W;QjBkmnBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp7XO,qBAAQ,CAo7Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBznnBO,W;QjB0nnBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp8XO,qBAAQ,CAo8Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBjonBO,W;QjBkonBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp9XO,qBAAQ,CAo9Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBzonBO,W;QjB0onBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp+XO,qBAAQ,CAo+Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBjpnBO,W;QjBkpnBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBzpnBO,W;QjB0pnBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBjqnBO,W;QjBkqnBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBzqnBO,W;QjB0qnBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBjrnBO,W;QjBkrnBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBzrnBO,W;QjB0rnBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBjsnBO,W;QjBksnBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBzsnBO,W;QjB0snBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBjtnBO,W;QjBktnBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBztnBO,W;QjB0tnBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBjunBO,W;QjBkunBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBzunBO,W;QjB0unBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBjvnBO,W;QjBkvnBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBzvnBO,W;QjB0vnBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBjwnBO,W;QjBkwnBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBzwnBO,W;QjB0wnBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBjxnBO,W;QjBkxnBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBzxnBO,W;QjB0xnBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBjynBO,W;QjBkynBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBzynBO,W;QjB0ynBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBjznBO,W;QjBkznBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBzznBO,W;QjB0znBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBj0nBO,W;QjBk0nBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBz0nBO,W;QjB00nBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBj1nBO,W;QjBk1nBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBz1nBO,W;QjB01nBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBj2nBO,W;QjBk2nBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBz2nBO,W;QjB02nBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBj3nBO,W;QjBk3nBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBz3nBO,W;QjB03nBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBj4nBO,W;QjBk4nBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBz4nBO,W;QjB04nBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBj5nBO,W;QjBk5nBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBz5nBO,W;QjB05nBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBj6nBO,W;QjBk6nBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBz6nBO,W;QjB06nBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBj7nBO,W;QjBk7nBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBz7nBO,W;QjB07nBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBj8nBO,W;QjBk8nBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBz8nBO,W;QjB08nBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBj9nBO,W;QjBk9nBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBz9nBO,W;QjB09nBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBj+nBO,W;QjBk+nBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBz+nBO,W;QjB0+nBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBj/nBO,W;QjBk/nBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBz/nBO,W;QjB0/nBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBjgoBO,W;QjBkgoBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBzgoBO,W;QjB0goBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAHhB,IAp/XO,qBAAQ,CAo/Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBjhoBO,W;QjBkhoBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;

BA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAcI,IA5vYO,qBAAQ,CA4vYf,C;UAAe,OAAO,W;QACtB,sBAAqB,
UAAK,CAAL,CAArB,C;QACgC,kBAAnB,eAAa,gBAAb,C;QAA2B,sBAAI,aAAJ,C;QAAxC,aiB14nBO,W;QjB2
4nBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,aAAV,EAAuB,UAAK,KAAL,CAAvB,C;UACd,M
AAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KArBX,C;kGAwBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IAz
wYO,qBAAQ,CAywYf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiB/5nBO,W;QjBg6nBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,aAAV,EAAuB,UAAK,KAAL,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAlB
X,C;kGAqBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IAtxYO,qBAAQ,CAsxYf,C;UAAe,OAAO,W;QACtB
,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+B,sBAAI,aAAJ,C;QAA5C,aiBp7n
BO,W;QjBq7nBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,aAAV,EAAuB,UAAK,KAAL,CAAvB
,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAlBX,C;kGAqBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;
QAWI,IAnyYO,qBAAQ,CAmyYf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACkC,kBAAvB,eAAe
rB,eAAe,gBAAf,C;QAA6B,sBAAI,aAAJ,C;QAA1C,aiBz8nBO,W;QjB08nBP,iBAAc,CAAd,UAAsB,gBAAtB,U;U
ACI,gBAAc,UAAU,aAAV,EAAuB,UAAK,KAAL,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAlBX,C;kGAqBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IAhzYO,qBAAQ,CAgzYf,C;UAAe,OAAO,W;
QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3
C,aiB99nBO,W;QjB+9nBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,aAAV,EAAuB,UAAK,KAA
L,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAlBX,C;kGAqBA,yB;MAAA,qD;MAAA,gE;M
AAA,uC;QAWI,IA7zYO,qBAAQ,CA6zYf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAC
,kBAAvB,eAAiB,gBAAjB,C;QAA+B,sBAAI,aAAJ,C;QAA5C,aiBn/nBO,W;QjBo/nBP,iBAAc,CAAd,UAAsB,gB
AAtB,U;UACI,gBAAc,UAAU,aAAV,EAAuB,UAAK,KAAL,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,O
AAO,M;O;KAlBX,C;kGAqBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IA10YO,qBAAQ,CA00Yf,C;UAAe,
OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACqC,kBAAxB,eAAkB,gBAAlB,C;QAAgC,sBAAI,aAAJ,
C;QAA7C,aiBxgoBO,W;QjBygoBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,aAAV,EAAuB,UAAK,
KAAL,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAlBX,C;kGAqBA,yB;MAAA,qD;MAAA,gE;MA
AA,uC;QAWI,IAv1YO,qBAAQ,CAu1Yf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACsC,kBAAC
,kBAAzB,eAAmB,gBAAnB,C;QAAiC,sBAAI,aAAJ,C;QAA9C,aiB7hoBO,W;QjB8hoBP,iBAAc,CAAd,UAAsB,gB
AAtB,U;UACI,gBAAc,UAAU,aAAV,EAAuB,UAAK,KAAL,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,O
AAO,M;O;KAlBX,C;kGAqBA,yB;MAAA,qD;MAAA,gE;MAAA,oC;MAAA,gC;MAAA,uC;QAWI,IAp2YO,qBAAQ,
2YO,qBAAQ,CAo2Yf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,0BAAJ,C;QAA3C,aiBljoBO,W;QjBmjoBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,oBAAU,0BAAV,EAAuB,sBAAK,KAAL,EAAuB,UAAK,KAAL,CAAvB,C;UACd,MAAO,WAAI,0BAAJ,C;;QAEX,OAAO,M;O;
KAlBX,C;8GAqBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAcI,IA57YO,qBAAQ,CA47Yf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACqC,kBAAxB,eAAkB,gBAAlB,C;QAAgC,sBAAI,aAAJ,
C;QAA7C,aiB1koBO,W;QjB2koBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UA
AK,KAAL,EAAuB,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KArBX,C;gHAwBA,yB;MAAA,qD;M
AAA,gE;MAAA,uC;QAWI,IA18YO,qBAAQ,CA08Yf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiBhpoBO,W;QjBipoBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IAr9YO,qBAAQ,CAq9Yf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiB3toBO,W;QjB4toBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IAh+YO,qBAAQ,CAg+Yf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiBtyoBO,W;QjBuyoBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IA3+YO,qBAAQ,CA2+Yf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiBjzoBO,W;QjBkzoBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IAt/YO,qBAAQ,CAs/Yf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiB5zoBO,W;QjB6zoBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IAjgZO,qBAAQ,CAigZf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiBv0oBO,W;QjBw0oBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IAphZO,qBAAQ,CAohZf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiBl1oBO,W;QjBm1oBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IAviZO,qBAAQ,CAuiZf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiBr2oBO,W;QjBs2oBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IA1jZO,qBAAQ,CA0jZf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiBx3oBO,W;QjBy3oBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IA7kZO,qBAAQ,CA6kZf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiB94oBO,W;QjB+4oBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IAhmZO,qBAAQ,CAgmZf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiBp6oBO,W;QjBq6oBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IAnnZO,qBAAQ,CAmnZf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiBx7oBO,W;QjBy7oBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IAtoZO,qBAAQ,CAsoZf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiB58oBO,W;QjB68oBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IAzpZO,qBAAQ,CAypZf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiBh+oBO,W;QjBi+oBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IA5qZO,qBAAQ,CA4qZf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiBp/oBO,W;QjBq/oBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IA/rZO,qBAAQ,CA+rZf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiBvgpBO,W;QjBwgpBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IAltZO,qBAAQ,CAktZf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiB3hpBO,W;QjB4hpBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IArvZO,qBAAQ,CAqvZf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiB/ipBO,W;QjBgjpBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IAxwZO,qBAAQ,CAwwZf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiBnkpBO,W;QjBokpBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IA3xZO,qBAAQ,CA2xZf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiBvlpBO,W;QjBwlpBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IA9yZO,qBAAQ,CA8yZf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiB3mpBO,W;QjB4mpBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IAjzZO,qBAAQ,CAizZf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiBnopBO,W;QjBoopBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IApzZO,qBAAQ,CAozZf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiBvqpBO,W;QjBwqpBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IAv0ZO,qBAAQ,CAu0Zf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiB3rpBO,W;QjB4rpBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IA11ZO,qBAAQ,CA01Zf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiBntpBO,W;QjBotpBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IA72ZO,qBAAQ,CA62Zf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiBzvpBO,W;QjB0vpBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IAh4ZO,qBAAQ,CAg4Zf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiB5xpBO,W;QjB6xpBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IAn5ZO,qBAAQ,CAm5Zf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiB/zpBO,W;QjBg0pBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IAt6ZO,qBAAQ,CAs6Zf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiBl1pBO,W;QjBm1pBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IAz7ZO,qBAAQ,CAy7Zf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiBr2pBO,W;QjBs2pBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IA58ZO,qBAAQ,CA48Zf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiBx3pBO,W;QjBy3pBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IA/9ZO,qBAAQ,CA+9Zf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiB95pBO,W;QjB+5pBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IAlgaO,qBAAQ,CAkgaf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiBl8pBO,W;QjBm8pBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IAshaO,qBAAQ,CAshaf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiBr+pBO,W;QjBs+pBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IAziaO,qBAAQ,CAyiaf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiBzgqBO,W;QjB0gqBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IA5jaO,qBAAQ,CA4jaf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiBliqBO,W;QjBmiqBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IAnlaO,qBAAQ,CAmlaf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiBxkqBO,W;QjBykqBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IAvmaO,qBAAQ,CAumaf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiB5mqBO,W;QjB6mqBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IA3naO,qBAAQ,CA2naf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiBhpqBO,W;QjBipqBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;
KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IAhpaO,qBAAQ,CAgpaf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,
gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiBrrqBO,W;QjBsrqBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,UAAU,KAAV,EAAuB,EAAiB,aAAjB,EAAuB,EAA8B,UAAK,KAAL,EAAuB,CAAvB,C;UACd,MAAO,WAAI,aAA

CAAlB,C;QACmC,kBAAtB,eAAgB,gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiBlqoBO,W;QjBmqoBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IAlgZO,qBAAQ,CAkgZf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiBxroBO,W;QjByroBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IAhhZO,qBAAQ,CAghZf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiB9soBO,W;QjB+soBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IA9hZO,qBAAQ,CA8hZf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiBpuoBO,W;QjBquoBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IA5iZO,qBAAQ,CA4iZf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiB1voBO,W;QjB2voBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IAljZO,qBAAQ,CAkjZf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiBhxoBO,W;QjBixoBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IAxkZO,qBAAQ,CAwkZf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiBtyoBO,W;QjBuyoBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IA9lZO,qBAAQ,CA8lZf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiB5zoBO,W;QjB6zoBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IApnZO,qBAAQ,CAonZf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiBl1oBO,W;QjBm1oBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IA1oZO,qBAAQ,CA0oZf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiBx2oBO,W;QjBy2oBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IAhqZO,qBAAQ,CAgqZf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiB93oBO,W;QjB+3oBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IAtrZO,qBAAQ,CAsrZf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiBp5oBO,W;QjBq5oBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IA5sZO,qBAAQ,CA4sZf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiB16oBO,W;QjB26oBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IAluZO,qBAAQ,CAkuZf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiBh8oBO,W;QjBi8oBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IAxvZO,qBAAQ,CAwvZf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiBt9oBO,W;QjBu9oBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IA9wZO,qBAAQ,CA8wZf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiBp/oBO,W;QjBq/oBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IApyZO,qBAAQ,CAoyZf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiB1goBO,W;QjB2goBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IA1zZO,qBAAQ,CA0zZf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiBhioBO,W;QjBiioBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IA90ZO,qBAAQ,CA80ZZ,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiBtkoBO,W;QjBukoBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IAn2ZO,qBAAQ,CAm2ZZ,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiB3moBO,W;QjB4moBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IAv3ZO,qBAAQ,CAu3ZZ,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiBpooBO,W;QjBqooBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IA34ZO,qBAAQ,CA24ZZ,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiBxqooBO,W;QjByqooBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IA/5ZO,qBAAQ,CA+5ZZ,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiB5soBO,W;QjB6soBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IAn7ZO,qBAAQ,CAm7ZZ,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiBhvoBO,W;QjBivoBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IAv8ZO,qBAAQ,CAu8ZZ,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiBxxoBO,W;QjByxoBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IA39ZO,qBAAQ,CA29ZZ,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiBpzoBO,W;QjBqzoBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IA/+ZO,qBAAQ,CA++ZZ,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiBh1oBO,W;QjBi1oBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IAngaO,qBAAQ,CAmgaZ,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiB52oBO,W;QjB62oBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IAvhaO,qBAAQ,CAuhaZ,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiBx4oBO,W;QjBy4oBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IA3iaO,qBAAQ,CA2iaZ,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiB56oBO,W;QjB66oBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IA/jaO,qBAAQ,CA+jaZ,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiBh9oBO,W;QjBi9oBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IAnlaO,qBAAQ,CAmlaZ,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiB5+oBO,W;QjB6+oBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IAvmaO,qBAAQ,CAumaZ,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiBxgpBO,W;QjBygpBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IA3naO,qBAAQ,CA2naZ,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiB5hpBO,W;QjB6hpBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IA/oaO,qBAAQ,CA+oaZ,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiBhjpBO,W;QjBijpBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IAnqaO,qBAAQ,CAmqaZ,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiB5kpBO,W;QjB6kpBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IAvraO,qBAAQ,CAuraZ,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiBxmpBO,W;QjBympBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IA3saO,qBAAQ,CA2saZ,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiBpopBO,W;QjBqopBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IA/taO,qBAAQ,CA+taZ,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiBhqpBO,W;QjBiqpBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IAnvaO,qBAAQ,CAmvaZ,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiB5rpBO,W;QjB6rpBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IAvwaO,qBAAQ,CAuwaZ,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiBxtpBO,W;QjBytpBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IA3xaO,qBAAQ,CA2xaZ,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiBpvpBO,W;QjBqvpBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IA/yaO,qBAAQ,CA+yaZ,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiBhxpBO,W;QjBixpBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IAn0aO,qBAAQ,CAm0aZ,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiB5ypBO,W;QjB6ypBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IAv1aO,qBAAQ,CAu1aZ,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiBx0pBO,W;QjBy0pBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IA32aO,qBAAQ,CA22aZ,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiBp1pBO,W;QjBq1pBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IA/3aO,qBAAQ,CA+3aZ,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiBh2pBO,W;QjBi2pBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IAn5aO,qBAAQ,CAm5aZ,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiB53pBO,W;QjB63pBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IAv6aO,qBAAQ,CAu6aZ,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiBx5pBO,W;QjBy5pBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IA37aO,qBAAQ,CA27aZ,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aip6pBO,W;QjBq6pBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IA/8aO,qBAAQ,CA+8aZ,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aih7pBO,W;QjBi7pBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IAn+aO,qBAAQ,CAm+aZ,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aiBp9pBO,W;QjBq9pBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IAv/aO,qBAAQ,CAu/aZ,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gBAAjB,C;QAA+C,sBAAI,aAAJ,C;QAA5C,aix+pBO,W;QjBy+pBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O

AAO,CAAP,IAAb,C;UAA+B,sBAqxBzB,OArxByB,C;UAA5C,aiBznnBO,W;UjB0nnBP,kBAoxBmB,O;UAnxBnB,iD;YAAgB,cAAhB,e;YACI,cAkxBwB,SAlxBV,CAAU,WAAV,EAAuB,OAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QA+wBP,yB;O;KAfJ,C;gFAkBA,yB;MA/wBA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MA+wBA,gD;QAeW,sB;;UA7wBS,Q;UAHhB,IAp8XO,qBAAQ,CAo8Xf,C;YAAe,qBAAO,OAgxBH,OAhxBG,C;YAAP,uB;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBA+wBzB,OA/wByB,C;UAA5C,aiBjpnBO,W;UjBkpnBP,kBA8wBmB,O;UA7wBnB,iD;YAAgB,cAAhB,0B;YACI,cA4wBwB,SA5wBV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAywBP,yB;O;KAfJ,C;4FAkBA,yB;MAzwBA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MAywBA,gD;QAeW,6B;;UAvwBS,Q;UAHhB,IA5hYO,qBAAQ,CA4hYf,C;YAAe,4BAAO,OAswBH,OAtwBG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAqwBzB,OArwByB,C;UAA5C,aiBzqnBO,W;UjB0qnBP,kBAowBmB,O;UAnwBnB,iD;YAAgB,cAAhB,0B;YACI,cAkwBwB,SAlwBV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QA+vBP,yB;O;KAfJ,C;4FAkBA,yB;MA/vBA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MA+vBA,gD;QAeW,6B;;UA7vBS,Q;UAHhB,IAlsXO,qBAAQ,CAksXf,C;YAAe,4BAAO,OA4vBH,OA5vBG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBA2vBzB,OA3vByB,C;UAA5C,aiBnrnBO,W;UjBornBP,kBA0vBmB,O;UAzvBnB,iD;YAAgB,cAAhB,0B;YACI,cAwvBwB,SAxvBV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAquBP,yB;O;KAfJ,C;4FAkBA,yB;MArvBA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MAqvBA,gD;QAeW,6B;;UAnvBS,Q;UAHhB,IAxmXO,qBAAQ,CAwmXf,C;YAAe,4BAAO,OAkuBH,OAluBG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAiuBzB,OAjuByB,C;UAA5C,aiB7snBO,W;UjB8snBP,kBAguBmB,O;UA/tBnB,iD;YAAgB,cAAhB,0B;YACI,cA8tBwB,SA9tBV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QA2sBP,yB;O;KAfJ,C;4FAkBA,yB;MA3tBA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MA2tBA,gD;QAeW,6B;;UAztBS,Q;UAHhB,IA9pXO,qBAAQ,CA8pXf,C;YAAe,4BAAO,OAwsBH,OAxsBG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAusBzB,OAvsByB,C;UAA5C,aiBvunBO,W;UjBwunBP,kBAssBmB,O;UArsBnB,iD;YAAgB,cAAhB,0B;YACI,cAosBwB,SApsBV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAirBP,yB;O;KAfJ,C;4FAkBA,yB;MAjsBA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MAisBA,gD;QAeW,6B;;UA/rBS,Q;UAHhB,IApoXO,qBAAQ,CAooXf,C;YAAe,4BAAO,OA8qBH,OA9qBG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBA6qBzB,OA7qByB,C;UAA5C,aiBjwnBO,W;UjBkwnBP,kBA4qBmB,O;UA3qBnB,iD;YAAgB,cAAhB,0B;YACI,cA0qBwB,SA1qBV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAupBP,yB;O;KAfJ,C;4FAkBA,yB;MAvqBA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MAuqBA,gD;QAeW,6B;;UArqBS,Q;UAHhB,IA1lXO,qBAAQ,CA0lXf,C;YAAe,4BAAO,OAopBH,OAppBG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAmpBzB,OAnpByB,C;UAA5C,aiB3xnBO,W;UjB4xnBP,kBAkpBmB,O;UAjpBnB,iD;YAAgB,cAAhB,0B;YACI,cAgpBwB,SAhpBV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QA6nBP,yB;O;KAfJ,C;4FAkBA,yB;MA7oBA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MA6oBA,gD;QAeW,6B;;UA3oBS,Q;UAHhB,IAhjXO,qBAAQ,CAgjXf,C;YAAe,4BAAO,OA0nBH,OA1nBG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAynBzB,OAznByB,C;UAA5C,aiBjznBO,W;UjBkznBP,kBAwnBmB,O;UAvnBnB,iD;YAAgB,cAAhB,0B;YACI,cAsnBwB,SAtnBV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAmmBP,yB;O;KAfJ,C;4FAkBA,yB;MAnnBA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MAmnBA,gD;QAeW,6B;;UAjnBS,Q;UAHhB,IAtgXO,qBAAQ,CAsgXf,C;YAAe,4BAAO,OAgmBH,OAhmBG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBA+lBzB,OA/lByB,C;UAA5C,aiBv1nBO,W;UjBw1nBP,kBA8lBmB,O;UA7lBnB,iD;YAAgB,cAAhB,0B;YACI,cA4lBwB,SA5lBV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAykBP,yB;O;KAfJ,C;4FAkBA,yB;MAzlBA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MAylBA,gD;QAeW,6B;;UAvlBS,Q;UAHhB,IA5eXO,qBAAQ,CA4eWf,C;YAAe,4BAAO,OAsjBH,OAtjBG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAqjBzB,OArjByB,C;UAA5C,aiB73nBO,W;UjB83nBP,kBAojBmB,O;UAnjBnB,iD;YAAgB,cAAhB,0B;YACI,cAkjBwB,SAljBV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QA+hBP,yB;O;KAfJ,C;4FAkBA,yB;MA/iBA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MA+iBA,gD;QAeW,6B;;UA7iBS,Q;UAHhB,IAlcXO,qBAAQ,CAkcWf,C;YAAe,4BAAO,OA4gBH,OA5gBG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBA2gBzB,OA3gByB,C;UAA5C,aiBn6nBO,W;UjBo6nBP,kBA0gBmB,O;UAzgBnB,iD;YAAgB,cAAhB,0B;YACI,cAwgBwB,SAxgBV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAqfP,yB;O;KAfJ,C;4FAkBA,yB;MArgBA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MAqgBA,gD;QAeW,6B;;UAngBS,Q;UAHhB,IAxZXO,qBAAQ,CAwZWf,C;YAAe,4BAAO,OAkfH,OAlfG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAifzB,OAjfyB,C;UAA5C,aiBz8nBO,W;UjB08nBP,kBAgfmB,O;UA/enB,iD;YAAgB,cAAhB,0B;YACI,cA8ewB,SA9eV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QA2dP,yB;O;KAfJ,C;4FAkBA,yB;MA3eA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MA2eA,gD;QAeW,6B;;UAzeS,Q;UAHhB,IA9XXO,qBAAQ,CA8XWf,C;YAAe,4BAAO,OAwdH,OAxdG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAudzB,OAvdyB,C;UAA5C,aiB/+nBO,W;UjBg/nBP,kBAsdmB,O;UArdnB,iD;YAAgB,cAAhB,0B;YACI,cAodwB,SApdV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAicP,yB;O;KAfJ,C;4FAkBA,yB;MAjdA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MAidA,gD;QAeW,6B;;UA/cS,Q;UAHhB,IApWXO,qBAAQ,CAoWWf,C;YAAe,4BAAO,OA8bH,OA9bG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBA6bzB,OA7byB,C;UAA5C,aiBrhoBO,W;UjBshoBP,kBA4bmB,O;UA3bnB,iD;YAAgB,cAAhB,0B;YACI,cA0bwB,SA1bV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAuaP,yB;O;KAfJ,C;4FAkBA,yB;MAvbA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MAubA,gD;QAeW,6B;;UArbS,Q;UAHhB,IA1UXO,qBAAQ,CA0UWf,C;YAAe,4BAAO,OAoaH,OApaG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAmazB,OAnayB,C;UAA5C,aiB3koBO,W;UjB4koBP,kBAkamB,O;UAjanB,iD;YAAgB,cAAhB,0B;YACI,cAgawB,SAhaV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QA6YP,yB;O;KAfJ,C;4FAkBA,yB;MA7aA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MA6aA,gD;QAeW,6B;;UA3aS,Q;UAHhB,IAhTXO,qBAAQ,CAgTWf,C;YAAe,4BAAO,OA0ZH,OA1ZG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAyZzB,OAzZyB,C;UAA5C,aiBjnoBO,W;UjBknoBP,kBAwZmB,O;UAvZnB,iD;YAAgB,cAAhB,0B;YACI,cAsZwB,SAtZV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAmYP,yB;O;KAfJ,C;4FAkBA,yB;MAnZA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MAmZA,gD;QAeW,6B;;UAjZS,Q;UAHhB,IAtRXO,qBAAQ,CAsRWf,C;YAAe,4BAAO,OAgYH,OAhYG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBA+XzB,OA/XyB,C;UAA5C,aiBvqoBO,W;UjBwqoBP,kBA8XmB,O;UA7XnB,iD;YAAgB,cAAhB,0B;YACI,cA4XwB,SA5XV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAyWP,yB;O;KAfJ,C;4FAkBA,yB;MAzXA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MAyXA,gD;QAeW,6B;;UAvXS,Q;UAHhB,IA5PXO,qBAAQ,CA4PWf,C;YAAe,4BAAO,OAsWH,OAtWG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAqWzB,OArWyB,C;UAA5C,aiB7soBO,W;UjB8soBP,kBAoWmB,O;UAnWnB,iD;YAAgB,cAAhB,0B;YACI,cAkWwB,SAlWV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QA+UP,yB;O;KAfJ,C;4FAkBA,yB;MA/VA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MA+VA,gD;QAeW,6B;;UA7VS,Q;UAHhB,IAlOXO,qBAAQ,CAkOWf,C;YAAe,4BAAO,OA4UH,OA5UG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBA2UzB,OA3UyB,C;UAA5C,aiBnuoBO,W;UjBouoBP,kBA0UmB,O;UAzUnB,iD;YAAgB,cAAhB,0B;YACI,cAwUwB,SAxUV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAqTP,yB;O;KAfJ,C;4FAkBA,yB;MArUA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MAqUA,gD;QAeW,6B;;UAnUS,Q;UAHhB,IAxNXO,qBAAQ,CAwNWf,C;YAAe,4BAAO,OAkTH,OAlTG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAiTzB,OAjTyB,C;UAA5C,aiBzvoBO,W;UjB0voBP,kBAgTmB,O;UA/SnB,iD;YAAgB,cAAhB,0B;YACI,cA8SwB,SA9SV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QA2RP,yB;O;KAfJ,C;4FAkBA,yB;MA3SA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MA2SA,gD;QAeW,6B;;UAzSS,Q;UAHhB,IA9LXO,qBAAQ,CA8LWf,C;YAAe,4BAAO,OAwRH,OAxRG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAuRzB,OAvRyB,C;UAA5C,aiB/woBO,W;UjBgxoBP,kBAsRmB,O;UArRnB,iD;YAAgB,cAAhB,0B;YACI,cAoRwB,SApRV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAiQP,yB;O;KAfJ,C;4FAkBA,yB;MAjRA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MAiRA,gD;QAeW,6B;;UA/QS,Q;UAHhB,IApKXO,qBAAQ,CAoKWf,C;YAAe,4BAAO,OA8PH,OA9PG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBA6PzB,OA7PyB,C;UAA5C,aiBrypBO,W;UjBsypBP,kBA4PmB,O;UA3PnB,iD;YAAgB,cAAhB,0B;YACI,cA0PwB,SA1PV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAuOP,yB;O;KAfJ,C;4FAkBA,yB;MAvPA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MAuPA,gD;QAeW,6B;;UArPS,Q;UAHhB,IA1IXO,qBAAQ,CA0IWf,C;YAAe,4BAAO,OAoOH,OApOG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAmOzB,OAnOyB,C;UAA5C,aiB30pBO,W;UjB40pBP,kBAkOmB,O;UAjOnB,iD;YAAgB,cAAhB,0B;YACI,cAgOwB,SAhOV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QA6MP,yB;O;KAfJ,C;4FAkBA,yB;MA7NA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MA6NA,gD;QAeW,6B;;UA3NS,Q;UAHhB,IAhHXO,qBAAQ,CAgHWf,C;YAAe,4BAAO,OA0MH,OA1MG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAyMzB,OAzMyB,C;UAA5C,aiBj2pBO,W;UjBk2pBP,kBAwMmB,O;UAvMnB,iD;YAAgB,cAAhB,0B;YACI,cAsMwB,SAtMV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAmLP,yB;O;KAfJ,C;4FAkBA,yB;MAnMA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MAmMA,gD;QAeW,6B;;UAjMS,Q;UAHhB,IAtFXO,qBAAQ,CAsFWf,C;YAAe,4BAAO,OAgLH,OAhLG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBA+KzB,OA/KyB,C;UAA5C,aiBv3pBO,W;UjBw3pBP,kBA8KmB,O;UA7KnB,iD;YAAgB,cAAhB,0B;YACI,cA4KwB,SA5KV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAyJP,yB;O;KAfJ,C;4FAkBA,yB;MAzKA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MAyKA,gD;QAeW,6B;;UAvKS,Q;UAHhB,IA5DXO,qBAAQ,CA4DWf,C;YAAe,4BAAO,OAsJH,OAtJG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAqJzB,OArJyB,C;UAA5C,aiB74pBO,W;UjB84pBP,kBAoJmB,O;UAnJnB,iD;YAAgB,cAAhB,0B;YACI,cAkJwB,SAlJV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QA+HP,yB;O;KAfJ,C;4FAkBA,yB;MA/IA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MA+IA,gD;QAeW,6B;;UA7IS,Q;UAHhB,IAlCXO,qBAAQ,CAkCWf,C;YAAe,4BAAO,OA4HH,OA5HG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBA2HzB,OA3HyB,C;UAA5C,aiBn6pBO,W;UjBo6pBP,kBA0HmB,O;UAzHnB,iD;YAAgB,cAAhB,0B;YACI,cAwHwB,SAxHV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAqGP,yB;O;KAfJ,C;4FAkBA,yB;MArHA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MAqHA,gD;QAeW,6B;;UAnHS,Q;UAHhB,IAxAXO,qBAAQ,CAwAWf,C;YAAe,4BAAO,OAkGH,OAlGG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAiGzB,OAjGyB,C;UAA5C,aiB77pBO,W;UjB87pBP,kBAgGmB,O;UA/FnB,iD;YAAgB,cAAhB,0B;YACI,cA8FwB,SA9FV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QA2EP,yB;O;KAfJ,C;4FAkBA,yB;MA3FA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MA2FA,gD;QAeW,6B;;UAzFS,Q;UAHhB,IA9DXO,qBAAQ,CA8DWf,C;YAAe,4BAAO,OAwEH,OAxEG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAuEzB,OAvEyB,C;UAA5C,aiBn9pBO,W;UjBo9pBP,kBAsEmB,O;UArEnB,iD;YAAgB,cAAhB,0B;YACI,cAoEwB,SApEV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAiDP,yB;O;KAfJ,C;4FAkBA,yB;MAjEA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MAiEA,gD;QAeW,6B;;UA/DS,Q;UAHhB,IApHXO,qBAAQ,CAoHWf,C;YAAe,4BAAO,OA8CH,OA9CG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBA6CzB,OA7CyB,C;UAA5C,aiBz+pBO,W;UjB0+pBP,kBA4CmB,O;UA3CnB,iD;YAAgB,cAAhB,0B;YACI,cA0CwB,SA1CV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAuBP,yB;O;KAfJ,C;4FAkBA,yB;MAvCA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MAuCA,gD;QAeW,6B;;UArCS,Q;UAHhB,IA1IXO,qBAAQ,CA0IWf,C;YAAe,4BAAO,OAoBH,OApBG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAmBzB,OAnByB,C;UAA5C,aiB7/pBO,W;UjB8/pBP,kBAkBmB,O;UAjBnB,iD;YAAgB,cAAhB,0B;YACI,cAgBwB,SAhBV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAaP,yB;O;KAfJ,C;4FAkBA,yB;MAbA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MAaA,gD;QAeW,6B;;UAXS,Q;UAHhB,IAhJXO,qBAAQ,CAgJWf,C;YAAe,4BAAO,OAUH,OAVG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBASzB,OATyB,C;UAA5C,aiBnhqBO,W;UjBohqBP,kBAQmB,O;UAPnB,iD;YAAgB,cAAhB,0B;YACI,cAMwB,SANV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAGP,yB;O;KAfJ,C;4FAkBA,yB;MAHA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MAGA,gD;QAeW,6B;;UADS,Q;UAHhB,IAtJXO,qBAAQ,CAsJWf,C;YAAe,4BAAO,OAAH,OAAG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAAzB,OAAyB,C;UAA5C,aiBzipBO,W;UjB0ipBP,kBAAmB,O;UAAnB,iD;YAAgB,cAAhB,0B;YACI,cAAwB,SAAV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAGP,yB;O;KAfJ,C;4FAkBA,yB;MAHA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MAGA,gD;QAeW,6B;;UADS,Q;UAHhB,IA5JXO,qBAAQ,CA4JWf,C;YAAe,4BAAO,OAAH,OAAG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAAzB,OAAyB,C;UAA5C,aiBnjpBO,W;UjBojpBP,kBAAmB,O;UAAnB,iD;YAAgB,cAAhB,0B;YACI,cAAwB,SAAV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAGP,yB;O;KAfJ,C;4FAkBA,yB;MAHA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MAGA,gD;QAeW,6B;;UADS,Q;UAHhB,IAlKXO,qBAAQ,CAkKWf,C;YAAe,4BAAO,OAAH,OAAG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAAzB,OAAyB,C;UAA5C,aiBzjpBO,W;UjB0jpBP,kBAAmB,O;UAAnB,iD;YAAgB,cAAhB,0B;YACI,cAAwB,SAAV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAGP,yB;O;KAfJ,C;4FAkBA,yB;MAHA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MAGA,gD;QAeW,6B;;UADS,Q;UAHhB,IAxKXO,qBAAQ,CAwKWf,C;YAAe,4BAAO,OAAH,OAAG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAAzB,OAAyB,C;UAA5C,aiBjkpBO,W;UjBkkpBP,kBAAmB,O;UAAnB,iD;YAAgB,cAAhB,0B;YACI,cAAwB,SAAV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAGP,yB;O;KAfJ,C;4FAkBA,yB;MAHA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MAGA,gD;QAeW,6B;;UADS,Q;UAHhB,IA9KXO,qBAAQ,CA8KWf,C;YAAe,4BAAO,OAAH,OAAG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAAzB,OAAyB,C;UAA5C,aiBzkpBO,W;UjB0kpBP,kBAAmB,O;UAAnB,iD;YAAgB,cAAhB,0B;YACI,cAAwB,SAAV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAGP,yB;O;KAfJ,C;4FAkBA,yB;MAHA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MAGA,gD;QAeW,6B;;UADS,Q;UAHhB,IAxLXO,qBAAQ,CAwLWf,C;YAAe,4BAAO,OAAH,OAAG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAAzB,OAAyB,C;UAA5C,aiBjlpBO,W;UjBklpBP,kBAAmB,O;UAAnB,iD;YAAgB,cAAhB,0B;YACI,cAAwB,SAAV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAGP,yB;O;KAfJ,C;4FAkBA,yB;MAHA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MAGA,gD;QAeW,6B;;UADS,Q;UAHhB,IAxMXO,qBAAQ,CAwMWf,C;YAAe,4BAAO,OAAH,OAAG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAAzB,OAAyB,C;UAA5C,aiBjmpBO,W;UjBkmpBP,kBAAmB,O;UAAnB,iD;YAAgB,cAAhB,0B;YACI,cAAwB,SAAV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAGP,yB;O;KAfJ,C;4FAkBA,yB;MAHA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MAGA,gD;QAeW,6B;;UADS,Q;UAHhB,IAxNXO,qBAAQ,CAwNWf,C;YAAe,4BAAO,OAAH,OAAG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAAzB,OAAyB,C;UAA5C,aiBjnpBO,W;UjBknpBP,kBAAmB,O;UAAnB,iD;YAAgB,cAAhB,0B;YACI,cAAwB,SAAV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAGP,yB;O;KAfJ,C;4FAkBA,yB;MAHA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MAGA,gD;QAeW,6B;;UADS,Q;UAHhB,IAxOXO,qBAAQ,CAwOWf,C;YAAe,4BAAO,OAAH,OAAG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAAzB,OAAyB,C;UAA5C,aiBjopBO,W;UjBkopBP,kBAAmB,O;UAAnB,iD;YAAgB,cAAhB,0B;YACI,cAAwB,SAAV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAGP,yB;O;KAfJ,C;4FAkBA,yB;MAHA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MAGA,gD;QAeW,6B;;UADS,Q;UAHhB,IAxPXO,qBAAQ,CAwPWf,C;YAAe,4BAAO,OAAH,OAAG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAAzB,OAAyB,C;UAA5C,aiBjppBO,W;UjBkppBP,kBAAmB,O;UAAnB,iD;YAAgB,cAAhB,0B;YACI,cAAwB,SAAV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAGP,yB;O;KAfJ,C;4FAkBA,yB;MAHA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MAGA,gD;QAeW,6B;;UADS,Q;UAHhB,IAxQXO,qBAAQ,CAwQWf,C;YAAe,4BAAO,OAAH,OAAG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAAzB,OAAyB,C;UAA5C,aiBjqpBO,W;UjBkqpBP,kBAAmB,O;UAAnB,iD;YAAgB,cAAhB,0B;YACI,cAAwB,SAAV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAGP,yB;O;KAfJ,C;4FAkBA,yB;MAHA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MAGA,gD;QAeW,6B;;UADS,Q;UAHhB,IAxRXO,qBAAQ,CAwRWf,C;YAAe,4BAAO,OAAH,OAAG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAAzB,OAAyB,C;UAA5C,aiBjrpBO,W;UjBkrpBP,kBAAmB,O;UAAnB,iD;YAAgB,cAAhB,0B;YACI,cAAwB,SAAV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAGP,yB;O;KAfJ,C;4FAkBA,yB;MAHA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MAGA,gD;QAeW,6B;;UADS,Q;UAHhB,IAxSXO,qBAAQ,CAwSWf,C;YAAe,4BAAO,OAAH,OAAG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAAzB,OAAyB,C;UAA5C,aiBjspBO,W;UjBkspBP,kBAAmB,O;UAAnB,iD;YAAgB,cAAhB,0B;YACI,cAAwB,SAAV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAGP,yB;O;KAfJ,C;4FAkBA,yB;MAHA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MAGA,gD;QAeW,6B;;UADS,Q;UAHhB,IAxTXO,qBAAQ,CAwTWf,C;YAAe,4BAAO,OAAH,OAAG,C;YAAP,8B;WACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAAzB,OAAyB,C;UAA5C,aiBjtpBO,W;U

O,SAAS,OAAT,CAAP,I;;MAEJ,OAAO,G;K;kFAGX,+B;MAOoB,Q;MADhB,UAAe,C;MACf,wBAAgB,SAAhB,
gB;QAAgB,cAAA,SAAhB,M;QACI,YAAO,SAAS,OAAT,CAAP,I;;MAEJ,OAAO,G;K;kFAGX,+B;MAOoB,Q;M
ADhB,UAAe,C;MACf,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,YAAO,SAAS,OAAT,CAAP,I;;MA
EJ,OAAO,G;K;kFAGX,+B;MAOoB,Q;MADhB,UAAe,C;MACf,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;
QACI,YAAO,SAAS,OAAT,CAAP,I;;MAEJ,OAAO,G;K;kFAGX,+B;MAOoB,Q;MADhB,UAAe,C;MACf,wBAA
gB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,YAAO,SAAS,OAAT,CAAP,I;;MAEJ,OAAO,G;K;kFAGX,+B;M
AOoB,Q;MADhB,UAAe,C;MACf,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,YAAO,SAAS,OAAT,C
AAP,I;;MAEJ,OAAO,G;K;kFAGX,yB;MAAA,oC;MAAA,gC;MAAA,sC;QAOoB,Q;QADhB,UAAe,C;QACf,wB
AAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UACI,YAAO,SAAS,oBAAT,CAAP,I;;QAEJ,OAAO,G;O;
KAVX,C;4FAaA,+B;MAOoB,Q;MADhB,UAAkB,G;MAClB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;Q
ACI,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;8FAGX,+B;MAOoB,Q;MADhB,UAAkB,G;MAClB,wBAAgB,
SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;8FAGX,+B;MAOoB,Q
;MADhB,UAAkB,G;MAClB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,SAAS,OAAT,C;;MA
EX,OAAO,G;K;8FAGX,+B;MAOoB,Q;MADhB,UAAkB,G;MAClB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAh
B,M;QACI,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;8FAGX,+B;MAOoB,Q;MADhB,UAAkB,G;MAClB,wB
AAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;8FAGX,+B;MA
OoB,Q;MADhB,UAAkB,G;MAClB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,SAAS,OAAT,
C;;MAEX,OAAO,G;K;8FAGX,+B;MAOoB,Q;MADhB,UAAkB,G;MAClB,wBAAgB,SAAhB,gB;QAAgB,cAAA,
SAAhB,M;QACI,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;8FAGX,+B;MAOoB,Q;MADhB,UAAkB,G;MACl
B,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;8FAGX,y
B;MAAA,oC;MAAA,gC;MAAA,sC;QAOoB,Q;QADhB,UAAkB,G;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAh
B,UAAgB,SAAhB,O;UACI,OAAO,SAAS,oBAAT,C;;QAEX,OAAO,G;O;KAVX,C;gFAaA,+B;MAUoB,Q;MADh
B,UAAoB,C;MACpB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,SAAS,OAAT,C;;MAEX,O
AAO,G;K;kFAGX,+B;MAUoB,Q;MADhB,UAAoB,C;MACpB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;
QACI,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;kFAGX,+B;MAUoB,Q;MADhB,UAAoB,C;MACpB,wBAAg
B,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;kFAGX,+B;MAUoB,
Q;MADhB,UAAoB,C;MACpB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,SAAS,OAAT,C;;
MAEX,OAAO,G;K;kFAGX,+B;MAUoB,Q;MADhB,UAAoB,C;MACpB,wBAAgB,SAAhB,gB;QAAgB,cAAA,S
AAhB,M;QACI,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;kFAGX,+B;MAUoB,Q;MADhB,UAAoB,C;MACpB
,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;kFAGX,+B;
MAUoB,Q;MADhB,UAAoB,C;MACpB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,SAAS,O
AAT,C;;MAEX,OAAO,G;K;kFAGX,+B;MAUoB,Q;MADhB,UAAoB,C;MACpB,wBAAgB,SAAhB,gB;QAAgB,c
AAA,SAAhB,M;QACI,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;kFAGX,yB;MAAA,oC;MAAA,gC;MAAA,s
C;QAUoB,Q;QADhB,UAAoB,C;QACpB,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UACI,OAAO
,SAAS,oBAAT,C;;QAEX,OAAO,G;O;KAbX,C;kFAgBA,+B;MAUoB,Q;MADhB,UAAe,C;MACf,wBAAgB,SAA
hB,gB;QAAgB,cAAA,SAAhB,M;QACI,YAAO,SAAS,OAAT,CAAP,I;;MAEJ,OAAO,G;K;kFAGX,+B;MAUoB,
Q;MADhB,UAAe,C;MACf,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,YAAO,SAAS,OAAT,CAAP,I;
;MAEJ,OAAO,G;K;mFAGX,+B;MAUoB,Q;MADhB,UAAe,C;MACf,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAh
B,M;QACI,YAAO,SAAS,OAAT,CAAP,I;;MAEJ,OAAO,G;K;mFAGX,+B;MAUoB,Q;MADhB,UAAe,C;MACf,w
BAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,YAAO,SAAS,OAAT,CAAP,I;;MAEJ,OAAO,G;K;mFAGX,
+B;MAUoB,Q;MADhB,UAAe,C;MACf,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,YAAO,SAAS,O
AAT,CAAP,I;;MAEJ,OAAO,G;K;mFAGX,+B;MAUoB,Q;MADhB,UAAe,C;MACf,wBAAgB,SAAhB,gB;QAAg
B,cAAA,SAAhB,M;QACI,YAAO,SAAS,OAAT,CAAP,I;;MAEJ,OAAO,G;K;mFAGX,+B;MAUoB,Q;MADhB,U
AAe,C;MACf,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,YAAO,SAAS,OAAT,CAAP,I;;MAEJ,OAA
O,G;K;mFAGX,+B;MAUoB,Q;MADhB,UAAe,C;MACf,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,
YAAO,SAAS,OAAT,CAAP,I;;MAEJ,OAAO,G;K;mFAGX,yB;MAAA,oC;MAAA,gC;MAAA,sC;QAUoB,Q;QA
DhB,UAAe,C;QACf,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UACI,YAAO,SAAS,oBAAT,CA
AP,I;;QAEJ,OAAO,G;O;KAbX,C;mFAgBA,yB;MAAA,SASoB,gB;MATpB,sC;QAUoB,Q;QADhB,Y;QACA,wB

AAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAO,SAAS,OAAT,CAAP,C;;QAEJ,OAAO,G;O;KAbX,C;m
FAgBA,yB;MAAA,SASoB,gB;MATpB,sC;QAUoB,Q;QADhB,Y;QACA,wBAAgB,SAAhB,gB;UAAgB,cAAA,S
AAhB,M;UACI,cAAO,SAAS,OAAT,CAAP,C;;QAEJ,OAAO,G;O;KAbX,C;mFAgBA,yB;MAAA,SASoB,gB;MA
TpB,sC;QAUoB,Q;QADhB,Y;QACA,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAO,SAAS,OAA
T,CAAP,C;;QAEJ,OAAO,G;O;KAbX,C;mFAgBA,yB;MAAA,SASoB,gB;MATpB,sC;QAUoB,Q;QADhB,Y;QAC
A,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAO,SAAS,OAAT,CAAP,C;;QAEJ,OAAO,G;O;KAb
X,C;mFAgBA,yB;MAAA,SASoB,gB;MATpB,sC;QAUoB,Q;QADhB,Y;QACA,wBAAgB,SAAhB,gB;UAAgB,cA
AA,SAAhB,M;UACI,cAAO,SAAS,OAAT,CAAP,C;;QAEJ,OAAO,G;O;KAbX,C;mFAgBA,yB;MAAA,SASoB,g
B;MATpB,sC;QAUoB,Q;QADhB,Y;QACA,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAO,SAAS,
OAAT,CAAP,C;;QAEJ,OAAO,G;O;KAbX,C;mFAgBA,yB;MAAA,SASoB,gB;MATpB,sC;QAUoB,Q;QADhB,Y;
QACA,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAO,SAAS,OAAT,CAAP,C;;QAEJ,OAAO,G;O;
KAbX,C;mFAgBA,yB;MAAA,SASoB,gB;MATpB,sC;QAUoB,Q;QADhB,Y;QACA,wBAAgB,SAAhB,gB;UAAg
B,cAAA,SAAhB,M;UACI,cAAO,SAAS,OAAT,CAAP,C;;QAEJ,OAAO,G;O;KAbX,C;mFAgBA,yB;MAAA,SAS
oB,gB;MATpB,oC;MAAA,gC;MAAA,sC;QAUoB,Q;QADhB,Y;QACA,wBAAgB,SAAhB,gB;UAAgB,cAAhB,U
AAgB,SAAhB,O;UACI,cAAO,SAAS,oBAAT,CAAP,C;;QAEJ,OAAO,G;O;KAbX,C;mFAgBA,yB;MGl7pBA,6B;
MHk7pBA,sC;QAWoB,Q;QADhB,UGl7pBmC,cHk7pBnB,CGl7pBmB,C;QHm7pBnC,wBAAgB,SAAhB,gB;UA
AgB,cAAA,SAAhB,M;UACI,MGtvqBiD,cHsvqBjD,GGtvqB2D,KAAK,GHsvqBzD,SAAS,OAAT,CGtvqBoE,KA
AX,IAAf,C;;QHwvqBrD,OAAO,G;O;KAdX,C;mFAiBA,yB;MGn8pBA,6B;MHm8pBA,sC;QAWoB,Q;QADhB,U
Gn8pBmC,cHm8pBnB,CGn8pBmB,C;QHo8pBnC,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,MGvw
qBiD,cHuwqBjD,GGvwqB2D,KAAK,GHuwqBzD,SAAS,OAAT,CGvwqBoE,KAAX,IAAf,C;;QHywqBrD,OAAO
,G;O;KAdX,C;mFAiBA,yB;MGp9pBA,6B;MHo9pBA,sC;QAWoB,Q;QADhB,UGp9pBmC,cHo9pBnB,CGp9pBm
B,C;QHq9pBnC,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,MGxxqBiD,cHwxqBjD,GGxxqB2D,KA
AK,GHwxqBzD,SAAS,OAAT,CGxxqBoE,KAAX,IAAf,C;;QH0xqBrD,OAAO,G;O;KAdX,C;mFAiBA,yB;MGr+p
BA,6B;MHq+pBA,sC;QAWoB,Q;QADhB,UGr+pBmC,cHq+pBnB,CGr+pBmB,C;QHs+pBnC,wBAAgB,SAAhB,
gB;UAAgB,cAAA,SAAhB,M;UACI,MGzyqBiD,cHyyqBjD,GGzyqB2D,KAAK,GHyyqBzD,SAAS,OAAT,CGzyq
BoE,KAAX,IAAf,C;;QH2yqBrD,OAAO,G;O;KAdX,C;mFAiBA,yB;MGt/pBA,6B;MHs/pBA,sC;QAWoB,Q;QAD
hB,UGt/pBmC,cHs/pBnB,CGt/pBmB,C;QHu/pBnC,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,MG1z
qBiD,cH0zqBjD,GG1zqB2D,KAAK,GH0zqBzD,SAAS,OAAT,CG1zqBoE,KAAX,IAAf,C;;QH4zqBrD,OAAO,G;
O;KAdX,C;mFAiBA,yB;MGvgqBA,6B;MHugqBA,sC;QAWoB,Q;QADhB,UGvgqBmC,cHugqBnB,CGvgqBmB,
C;QHwgqBnC,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,MG30qBiD,cH20qBjD,GG30qB2D,KAAK
,GH20qBzD,SAAS,OAAT,CG30qBoE,KAAX,IAAf,C;;QH60qBrD,OAAO,G;O;KAdX,C;mFAiBA,yB;MGxhqBA
,6B;MHwhqBA,sC;QAWoB,Q;QADhB,UGxhqBmC,cHwhqBnB,CGxhqBmB,C;QHyhqBnC,wBAAgB,SAAhB,gB
;UAAgB,cAAA,SAAhB,M;UACI,MG51qBiD,cH41qBjD,GG51qB2D,KAAK,GH41qBzD,SAAS,OAAT,CG51qBo
E,KAAX,IAAf,C;;QH81qBrD,OAAO,G;O;KAdX,C;mFAiBA,yB;MGziqBA,6B;MHyiqBA,sC;QAWoB,Q;QADh
B,UGziqBmC,cHyiqBnB,CGziqBmB,C;QH0iqBnC,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,MG72
qBiD,cH62qBjD,GG72qB2D,KAAK,GH62qBzD,SAAS,OAAT,CG72qBoE,KAAX,IAAf,C;;QH+2qBrD,OAAO,G
;O;KAdX,C;mFAiBA,yB;MAAA,oC;MAAA,gC;MG1jqBA,6B;MH0jqBA,sC;QAWoB,Q;QADhB,UG1jqBmC,cH
0jqBnB,CG1jqBmB,C;QH2jqBnC,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UACI,MG93qBiD,c
H83qBjD,GG93qB2D,KAAK,GH83qBzD,SAAS,oBAAT,CG93qBoE,KAAX,IAAf,C;;QHg4qBrD,OAAO,G;O;K
AdX,C;mFAiBA,yB;MmBxkqBA,+B;MnBwkqBA,sC;QAWoB,Q;QADhB,UmBvkqBqC,eAAW,oBnBukqB/B,Cm
BvkqB+B,CAAX,C;QnBwkqBrC,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,MmB54qBmD,enB44qB
nD,GmB54qB8D,KAAK,KnB44qB5D,SAAS,OAAT,CmB54qBuE,KAAX,CAAhB,C;;QnB84qBvD,OAAO,G;O;K
AdX,C;mFAiBA,yB;MmBzlqBA,+B;MnBylqBA,sC;QAWoB,Q;QADhB,UmBxlqBqC,eAAW,oBnBwlqB/B,CmB
xlqB+B,CAAX,C;QnBylqBrC,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,MmB75qBmD,enB65qBnD
,GmB75qB8D,KAAK,KnB65qB5D,SAAS,OAAT,CmB75qBuE,KAAX,CAAhB,C;;QnB+5qBvD,OAAO,G;O;KAd
X,C;mFAiBA,yB;MmB1mqBA,+B;MnB0mqBA,sC;QAWoB,Q;QADhB,UmBzmqBqC,eAAW,oBnBymqB/B,Cm
BzmqB+B,CAAX,C;QnB0mqBrC,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,MmB96qBmD,enB86q
BnD,GmB96qB8D,KAAK,KnB86qB5D,SAAS,OAAT,CmB96qBuE,KAAX,CAAhB,C;;QnBg7qBvD,OAAO,G;O;

KAdX,C;kFAiBA,yB;MmB3nqBA,+B;MnB2nqBA,sC;QAWoB,Q;QADhB,UmB1nqBqC,eAAW,oBnB0nqB/B,C
mB1nqB+B,CAAX,C;QnB2nqBrC,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,MmB/7qBmD,enB+7q
BnD,GmB/7qB8D,KAAK,KnB+7qB5D,SAAS,OAAT,CmB/7qBuE,KAAX,CAAhB,C;;QnBi8qBvD,OAAO,G;O;K
AdX,C;mFAiBA,yB;MmB5oqBA,+B;MnB4oqBA,sC;QAWoB,Q;QADhB,UmB3oqBqC,eAAW,oBnB2oqB/B,Cm
B3oqB+B,CAAX,C;QnB4oqBrC,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,MmBh9qBmD,enBg9qB
nD,GmBh9qB8D,KAAK,KnBg9qB5D,SAAS,OAAT,CmBh9qBuE,KAAX,CAAhB,C;;QnBk9qBvD,OAAO,G;O;K
AdX,C;mFAiBA,yB;MmB7pqBA,+B;MnB6pqBA,sC;QAWoB,Q;QADhB,UmB5pqBqC,eAAW,oBnB4pqB/B,Cm
B5pqB+B,CAAX,C;QnB6pqBrC,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,MmBj+qBmD,enBi+qBn
D,GmBj+qB8D,KAAK,KnBi+qB5D,SAAS,OAAT,CmBj+qBuE,KAAX,CAAhB,C;;QnBm+qBvD,OAAO,G;O;KA
dX,C;mFAiBA,yB;MmB9qqBA,+B;MnB8qqBA,sC;QAWoB,Q;QADhB,UmB7qqBqC,eAAW,oBnB6qqB/B,CmB
7qqB+B,CAAX,C;QnB8qqBrC,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,MmBl/qBmD,enBk/qBnD,
GmBl/qB8D,KAAK,KnBk/qB5D,SAAS,OAAT,CmBl/qBuE,KAAX,CAAhB,C;;QnBo/qBvD,OAAO,G;O;KAdX,C
;kFAiBA,yB;MmB/rqBA,+B;MnB+rqBA,sC;QAWoB,Q;QADhB,UmB9rqBqC,eAAW,oBnB8rqB/B,CmB9rqB+B,
CAAX,C;QnB+rqBrC,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,MmBngrBmD,enBmgrBnD,GmBng
rB8D,KAAK,KnBmgrB5D,SAAS,OAAT,CmBngrBuE,KAAX,CAAhB,C;;QnBqgrBvD,OAAO,G;O;KAdX,C;mF
AiBA,yB;MAAA,oC;MAAA,gC;MmBhtqBA,+B;MnBgtqBA,sC;QAWoB,Q;QADhB,UmB/sqBqC,eAAW,oBnB+
sqB/B,CmB/sqB+B,CAAX,C;QnBgtqBrC,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UACI,MmB
phrBmD,enBohrBnD,GmBphrB8D,KAAK,KnBohrB5D,SAAS,oBAAT,CmBphrBuE,KAAX,CAAhB,C;;QnBshrB
vD,OAAO,G;O;KAdX,C;IAiBA,mC;MAIoB,UAMT,M;MANP,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;
QACI,IAAI,eAAJ,C;UACI,MAAM,gCAAyB,2BAAwB,SAAxB,MAAzB,C;;MAId,OAAO,0D;K;wFAGX,yB;MA
AA,+D;MAAA,6B;MAAA,uC;QAUoB,Q;QAFhB,YAAY,gB;QACZ,aAAa,gB;QACb,wBAAgB,SAAhB,gB;UAA
gB,cAAA,SAAhB,M;UACI,IAAI,UAAU,OAAV,CAAJ,C;YACI,KAAM,WAAI,OAAJ,C;;YAEN,MAAO,WAAI,
OAAJ,C;;;QAGf,OAAO,cAAK,KAAL,EAAY,MAAZ,C;O;KAjBX,C;0FAoBA,yB;MAAA,+D;MAAA,6B;MAAA
,uC;QAUoB,Q;QAFhB,YAAY,gB;QACZ,aAAa,gB;QACb,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI
,IAAI,UAAU,OAAV,CAAJ,C;YACI,KAAM,WAAI,OAAJ,C;;YAEN,MAAO,WAAI,OAAJ,C;;;QAGf,OAAO,cA
AK,KAAL,EAAY,MAAZ,C;O;KAjBX,C;0FAoBA,yB;MAAA,+D;MAAA,6B;MAAA,uC;QAUoB,Q;QAFhB,YA
AY,gB;QACZ,aAAa,gB;QACb,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,IAAI,UAAU,OAAV,CAA
J,C;YACI,KAAM,WAAI,OAAJ,C;;YAEN,MAAO,WAAI,OAAJ,C;;;QAGf,OAAO,cAAK,KAAL,EAAY,MAAZ,
C;O;KAjBX,C;0FAoBA,yB;MAAA,+D;MAAA,6B;MAAA,uC;QAUoB,Q;QAFhB,YAAY,gB;QACZ,aAAa,gB;Q
ACb,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,IAAI,UAAU,OAAV,CAAJ,C;YACI,KAAM,WAAI,
OAAJ,C;;YAEN,MAAO,WAAI,OAAJ,C;;;QAGf,OAAO,cAAK,KAAL,EAAY,MAAZ,C;O;KAjBX,C;0FAoBA,y
B;MAAA,+D;MAAA,6B;MAAA,uC;QAUoB,Q;QAFhB,YAAY,gB;QACZ,aAAa,gB;QACb,wBAAgB,SAAhB,gB
;UAAgB,cAAA,SAAhB,M;UACI,IAAI,UAAU,OAAV,CAAJ,C;YACI,KAAM,WAAI,OAAJ,C;;YAEN,MAAO,W
AAI,OAAJ,C;;;QAGf,OAAO,cAAK,KAAL,EAAY,MAAZ,C;O;KAjBX,C;0FAoBA,yB;MAAA,+D;MAAA,6B;M
AAA,uC;QAUoB,Q;QAFhB,YAAY,gB;QACZ,aAAa,gB;QACb,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;
UACI,IAAI,UAAU,OAAV,CAAJ,C;YACI,KAAM,WAAI,OAAJ,C;;YAEN,MAAO,WAAI,OAAJ,C;;;QAGf,OAA
O,cAAK,KAAL,EAAY,MAAZ,C;O;KAjBX,C;0FAoBA,yB;MAAA,+D;MAAA,6B;MAAA,uC;QAUoB,Q;QAFh
B,YAAY,gB;QACZ,aAAa,gB;QACb,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,IAAI,UAAU,OAAV
,CAAJ,C;YACI,KAAM,WAAI,OAAJ,C;;YAEN,MAAO,WAAI,OAAJ,C;;;QAGf,OAAO,cAAK,KAAL,EAAY,M
AAZ,C;O;KAjBX,C;0FAoBA,yB;MAAA,+D;MAAA,6B;MAAA,uC;QAUoB,Q;QAFhB,YAAY,gB;QACZ,aAAa,
gB;QACb,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,IAAI,UAAU,OAAV,CAAJ,C;YACI,KAAM,W
AAI,OAAJ,C;;YAEN,MAAO,WAAI,OAAJ,C;;;QAGf,OAAO,cAAK,KAAL,EAAY,MAAZ,C;O;KAjBX,C;0FAo
BA,yB;MAAA,+D;MAAA,oC;MAAA,gC;MAAA,6B;MAAA,uC;QAUoB,Q;QAFhB,YAAY,gB;QACZ,aAAa,gB;
QACb,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UACI,IAAI,UAAU,oBAAV,CAAJ,C;YACI,KA
AM,WAAI,oBAAJ,C;;YAEN,MAAO,WAAI,oBAAJ,C;;;QAGf,OAAO,cAAK,KAAL,EAAY,MAAZ,C;O;KAjBX,
C;IAoBA,+B;MAkGI,WkB3orBO,MAAO,KlB2orBG,gBkB3orBH,ElBgjrBH,KA2FkB,OkB3orBf,C;MlB4orBd,W
AAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WA9FqB,GA8FP,UAAK,CAAL,CA
9FO,EAAnB,KA8FqB,CAAM,CAAN,CA9FF,CA8FrB,C;;MA9FT,OAgGO,I;K;IA7FX,iC;MAwGI,WkB3prBO,M

AAO,KlB2prBG,gBkB3prBH,ElB0jrBH,KAiGkB,OkB3prBf,C;MlB4prBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WApGqB,GAoGP,UAAK,CAAL,CApGO,EAAnB,KAoGqB,CAAM,CAAN,CApGF,CAoGrB,C;;MApGT,OAsGO,I;K;IAnGX,iC;MA8GI,WkB3qrBO,MAAO,KlB2qrBG,gBkB3qrBH,ElBokrBH,KAuGkB,OkB3qrBf,C;MlB4qrBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WA1GqB,GA0GP,UAAK,CAAL,CA1GO,EAAnB,KA0GqB,CAAM,CAAN,CA1GF,CA0GrB,C;;MA1GT,OA4GO,I;K;IAzGX,iC;MAoHI,WkB3rrBO,MAAO,KlB2rrBG,gBkB3rrBH,ElB8krBH,KA6GkB,OkB3rrBf,C;MlB4rrBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAhHqB,GAgHP,UAAK,CAAL,CAhHO,EAAnB,KAgHqB,CAAM,CAAN,CAhHF,CAgHrB,C;;MAhHT,OAkHO,I;K;IA/GX,iC;MA0HI,WkB3trBO,MAAO,KlB2trBG,gBkB3trBH,ElBkmrBH,KAyHkB,OkB3trBf,C;MlB4trBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WA5HqB,GA4HP,UAAK,CAAL,CA5HO,EAAnB,KA4HqB,CAAM,CAAN,CA5HF,CA4HrB,C;;MA5HT,OA8HO,I;K;IA3HX,iC;MAsII,WkB3vrBO,MAAO,KlB2vrBG,gBkB3vrBH,ElBsnrBH,KAqIkB,OkB3vrBf,C;MlB4vrBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAxIqB,GAwIP,UAAK,CAAL,CAxIO,EAAnB,KAwIqB,CAAM,CAAN,CAxIF,CAwIrB,C;;MAxIT,OA0IO,I;K;IAvIX,iC;MAkJI,WkB3xrBO,MAAO,KlB2xrBG,gBkB3xrBH,ElBgprBH,KAiJkB,OkB3xrBf,C;MlB4xrBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WApJqB,GAoJP,UAAK,CAAL,CApJO,EAAnB,KAoJqB,CAAM,CAAN,CApJF,CAoJrB,C;;MApJT,OAsJO,I;K;IAnJX,iC;MA8JI,WkB3zrBO,MAAO,KlB2zrBG,gBkB3zrBH,ElB0qrBH,KA6JkB,OkB3zrBf,C;MlB4zrBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAhKqB,GAgKP,UAAK,CAAL,CAhKO,EAAnB,KAgKqB,CAAM,CAAN,CAhKF,CAgKrB,C;;MAhKT,OAkKO,I;K;IA/JX,iC;MA0KI,WkB31rBO,MAAO,KlB21rBG,gBkB31rBH,ElBsrrBH,KAyKkB,OkB31rBf,C;MlB41rBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WA5KqB,GA4KP,UAAK,CAAL,CA5KO,EAAnB,KA4KqB,CAAM,CAAN,CA5KF,CA4KrB,C;;MA5KT,OA8KO,I;K;IA3KX,iC;MAsLI,WkB33rBO,MAAO,KlB23rBG,gBkB33rBH,ElBssrBH,KAqLkB,OkB33rBf,C;MlB43rBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAxLqB,GAwLP,UAAK,CAAL,CAxLO,EAAnB,KAwLqB,CAAM,CAAN,CAxLF,CAwLrB,C;;MAxLT,OA0LO,I;K;IAvLX,iC;MAkMI,WkB35rBO,MAAO,KlB25rBG,gBkB35rBH,ElBgtrBH,KAiMkB,OkB35rBf,C;MlB45rBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WApMqB,GAoMP,UAAK,CAAL,CApMO,EAAnB,KAoMqB,CAAM,CAAN,CApMF,CAoMrB,C;;MApMT,OAsMO,I;K;IAnMX,iC;MA8MI,WkB37rBO,MAAO,KlB27rBG,gBkB37rBH,ElB0trBH,KA6MkB,OkB37rBf,C;MlB47rBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAhNqB,GAgNP,UAAK,CAAL,CAhNO,EAAnB,KAgNqB,CAAM,CAAN,CAhNF,CAgNrB,C;;MAhNT,OAkNO,I;K;IA/MX,iC;MA0NI,WkB39rBO,MAAO,KlB29rBG,gBkB39rBH,ElBsvrBH,KAyNkB,OkB39rBf,C;MlB49rBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WA5NqB,GA4NP,UAAK,CAAL,CA5NO,EAAnB,KA4NqB,CAAM,CAAN,CA5NF,CA4NrB,C;;MA5NT,OA8NO,I;K;IA3NX,iC;MAsOI,WkB3/rBO,MAAO,KlB2/rBG,gBkB3/rBH,ElBsxrBH,KAqOkB,OkB3/rBf,C;MlB4/rBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAxOqB,GAwOP,UAAK,CAAL,CAxOO,EAAnB,KAwOqB,CAAM,CAAN,CAxOF,CAwOrB,C;;MAxOT,OA0OO,I;K;IAvOX,iC;MAkPI,WkB3hsBO,MAAO,KlB2hsBG,gBkB3hsBH,ElBgzrBH,KAiPkB,OkB3hsBf,C;MlB4hsBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WApPqB,GAoPP,UAAK,CAAL,CApPO,EAAnB,KAoPqB,CAAM,CAAN,CApPF,CAoPrB,C;;MApPT,OAsPO,I;K;IAnPX,iC;MA8PI,WkB3jsBO,MAAO,KlB2jsBG,gBkB3jsBH,ElB0zrBH,KA6PkB,OkB3jsBf,C;MlB4jsBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAhQqB,GAgQP,UAAK,CAAL,CAhQO,EAAnB,KAgQqB,CAAM,CAAN,CAhQF,CAgQrB,C;;MAhQT,OAkQO,I;K;IA/PX,iC;MA0QI,WkB3lsBO,MAAO,KlB2lsBG,gBkB3lsBH,ElBs1rBH,KAyQkB,OkB3lsBf,C;MlB4lsBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WA5QqB,GA4QP,UAAK,CAAL,CA5QO,EAAnB,KA4QqB,CAAM,CAAN,CA5QF,CA4QrB,C;;MA5QT,OA8QO,I;K;IA3QX,iC;MAsRI,WkB3nsBO,MAAO,KlB2nsBG,gBkB3nsBH,ElBs3rBH,KAqRkB,OkB3nsBf,C;MlB4nsBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAxRqB,GAwRP,UAAK,CAAL,CAxRO,EAAnB,KAwRqB,CAAM,CAAN,CAxRF,CAwRrB,C;;MAxRT,OA0RO,I;K;IAvRX,iC;MAkSI,WkB3psBO,MAAO,KlB2psBG,gBkB3psBH,ElBg5rBH,KAiSkB,OkB3psBf,C;MlB4psBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WApSqB,GAoSP,UAAK,CAAL,CApSO,EAAnB,KAoSqB,CAAM,CAAN,CApSF,CAoSrB,C;;MApST,OAsSO,I;K;IAnSX,iC;MA8SI,WkB3rsBO,MAAO,KlB2rsBG,gBkB3rsBH,ElB06rBH,KA6SkB,OkB3rsBf,C;MlB4rsBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAhTqB,GAgTP,UAAK,CAAL,CAhTO,EAAnB,KAgTqB,CAAM,CAAN,CAhTF,CAgTrB,C;;MAhTT,OAkTO,I;K;IA/SX,iC;MA0TI,WkB3tsBO,MAAO,KlB2tsBG,gBkB3tsBH,ElBs8rBH,KAyTkB,OkB3tsBf,C;MlB4tsBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WA5TqB,GA4TP,UAAK,CAAL,CA5TO,EAAnB,KA4TqB,CAAM,CAAN,CA5TF,CA4TrB,C;;MA5TT,OA8TO,I;K;IA3TX,iC;MAsUI,WkB3vsBO,MAAO,KlB2vsBG,gBkB3vsBH,ElBs+rBH,KAqUkB,OkB3vsBf,C;MlB4vsBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAxUqB,GAwUP,UAAK,CAAL,CAxUO,EAAnB,KAwUqB,CAAM,CAAN,CAxUF,CAwUrB,C;;MAxUT,OA0UO,I;K;IAvUX,iC;MAkVI,WkB3xsBO,MAAO,KlB2xsBG,gBkB3xsBH,ElBggsBH,KAiVkB,OkB3xsBf,C;MlB4xsBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WApVqB,GAoVP,UAAK,CAAL,CApVO,EAAnB,KAoVqB,CAAM,CAAN,CApVF,CAoVrB,C;;MApVT,OAsVO,I;K;IAnVX,iC;MA8VI,WkB3zsBO,MAAO,KlB2zsBG,gBkB3zsBH,ElB0hsBH,KA6VkB,OkB3zsBf,C;MlB4zsBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAV,MAAkB,IAAlB,M;QACI,IAAK,WAhWqB,GAgWP,UAAK,CAAL,CAhWO,EAAnB,KAgWqB,CAAM,CAAN,CAhWF,CAgWrB,C;;MAhWT,OAkWO,I;K;IA/VX,iC;MA0WI,WkB31sBO,MAAO,KlB21sBG,gBkB31sBH,ElBsjsBH,KAyWkB,OkB31sBf,C;MlB41sBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WA5WqB,GA4WP,UAAK,CAAL,CA5WO,EAAnB,KA4WqB,CAAM,CAAN,CA5WF,CA4WrB,C;;MA5WT,OA8WO,I;K;IA3WX,iC;MAsXI,WkB33sBO,MAAO,KlB23sBG,gBkB33sBH,ElBslsBH,KAqXkB,OkB33sBf,C;MlB43sBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAxXqB,GAwXP,UAAK,CAAL,CAxXO,EAAnB,KAwXqB,CAAM,CAAN,CAxXF,CAwXrB,C;;MAxXT,OA0XO,I;K;IAvXX,iC;MAkYI,WkB35sBO,MAAO,KlB25sBG,gBkB35sBH,ElBgnsBH,KAiYkB,OkB35sBf,C;MlB45sBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WApYqB,GAoYP,UAAK,CAAL,CApYO,EAAnB,KAoYqB,CAAM,CAAN,CApYF,CAoYrB,C;;MApYT,OAsYO,I;K;IAnYX,iC;MA8YI,WkB37sBO,MAAO,KlB27sBG,gBkB37sBH,ElB0osBH,KA6YkB,OkB37sBf,C;MlB47sBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAhZqB,GAgZP,UAAK,CAAL,CAhZO,EAAnB,KAgZqB,CAAM,CAAN,CAhZF,CAgZrB,C;;MAhZT,OAkZO,I;K;IA/YX,iC;MA0ZI,WkB39sBO,MAAO,KlB29sBG,gBkB39sBH,ElBsqsBH,KAyZkB,OkB39sBf,C;MlB49sBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WA5ZqB,GA4ZP,UAAK,CAAL,CA5ZO,EAAnB,KA4ZqB,CAAM,CAAN,CA5ZF,CA4ZrB,C;;MA5ZT,OA8ZO,I;K;IA3ZX,iC;MAsaI,WkB3/sBO,MAAO,KlB2/sBG,gBkB3/sBH,ElBssBH,KAqakB,OkB3/sBf,C;MlB4/sBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAxaqB,GAwaP,UAAK,CAAL,CAxaO,EAAnB,KAwaqB,CAAM,CAAN,CAxaF,CAwarB,C;;MAxaT,OA0aO,I;K;IAvaX,iC;MAkbI,WkB3htBO,MAAO,KlB2htBG,gBkB3htBH,ElBguBH,KAibkB,OkB3htBf,C;MlB4htBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WApbqB,GAobP,UAAK,CAAL,CApbO,EAAnB,KAobqB,CAAM,CAAN,CApbF,CAobrB,C;;MApbT,OAsbO,I;K;IAnbX,iC;MA8bI,WkB3jtBO,MAAO,KlB2jtBG,gBkB3jtBH,ElB0uBH,KA6bkB,OkB3jtBf,C;MlB4jtBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAhcqB,GAgcP,UAAK,CAAL,CAhcO,EAAnB,KAgcqB,CAAM,CAAN,CAhcF,CAgcrB,C;;MAhcT,OAkcO,I;K;IA/bX,iC;MA0cI,WkB3ltBO,MAAO,KlB2ltBG,gBkB3ltBH,ElBsvBH,KAycmB,OkB3ltBf,C;MlB4ltBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WA5cqB,GA4cP,UAAK,CAAL,CA5cO,EAAnB,KA4cqB,CAAM,CAAN,CA5cF,CA4crB,C;;MA5cT,OA8cO,I;K;IA3cX,iC;MAsdI,WkB3ntBO,MAAO,KlB2ntBG,gBkB3ntBH,ElBswBH,KAqdmB,OkB3ntBf,C;MlB4ntBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAxdqB,GAwdP,UAAK,CAAL,CAxdO,EAAnB,KAwdqB,CAAM,CAAN,CAxdF,CAwdrB,C;;MAxdT,OA0dO,I;K;IAvdX,iC;MAkeI,WkB3ptBO,MAAO,KlB2ptBG,gBkB3ptBH,ElBgxBH,KAieoB,OkB3ptBf,C;MlB4ptBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WApeqB,GAoeP,UAAK,CAAL,CApeO,EAAnB,KAoeqB,CAAM,CAAN,CApeF,CAoerB,C;;MApeT,OAseO,I;K;IAneX,iC;MA8eI,WkB3rtBO,MAAO,KlB2rtBG,gBkB3rtBH,ElB0xBH,KA6eoB,OkB3rtBf,C;MlB4rtBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAhfqB,GAgfP,UAAK,CAAL,CAhfO,EAAnB,KAgfqB,CAAM,CAAN,CAhfF,CAgfrB,C;;MAhfT,OAkfO,I;K;IA/eX,iC;MA0fI,WkB3ttBO,MAAO,KlB2ttBG,gBkB3ttBH,ElBsyBH,KAyfoB,OkB3ttBf,C;MlB4ttBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WA5fqB,GA4fP,UAAK,CAAL,CA5fO,EAAnB,KA4fqB,CAAM,CAAN,CA5fF,CA4frB,C;;MA5fT,OA8fO,I;K;IA3fX,iC;MAsgBI,WkB3vtBO,MAAO,KlB2vtBG,gBkB3vtBH,ElBszBH,KAqgBoB,OkB3vtBf,C;MlB4vtBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAxgBqB,GAwgBP,UAAK,CAAL,CAxgBO,EAAnB,KAwgBqB,CAAM,CAAN,CAxgBF,CAwgBrB,C;;MAxgBT,OA0gBO,I;K;IAvgBX,iC;MAkhBI,WkB3xtBO,MAAO,KlB2xtBG,gBkB3xtBH,ElBg0BH,KAihBoB,OkB3xtBf,C;MlB4xtBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAphBqB,GAohBP,UAAK,CAAL,CAphBO,EAAnB,KAohBqB,CAAM,CAAN,CAphBF,CAohBrB,C;;MAphBT,OAshBO,I;K;IAnhBX,iC;MA8hBI,WkB3ztBO,MAAO,KlB2ztBG,gBkB3ztBH,ElB01BH,KA6hBoB,OkB3ztBf,C;MlB4ztBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAhiBqB,GAgiBP,UAAK,CAAL,CAhiBO,EAAnB,KAgiBqB,CAAM,CAAN,CAhiBF,CAgiBrB,C;;MAhiBT,OAkiBO,I;K;IA/hBX,iC;MA0iBI,WkB31tBO,MAAO,KlB21tBG,gBkB31tBH,ElBs2BH,KAyiBoB,OkB31tBf,C;MlB41tBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WA5iBqB,GA4iBP,UAAK,CAAL,CA5iBO,EAAnB,KA4iBqB,CAAM,CAAN,CA5iBF,CA4iBrB,C;;MA5iBT,OA8iBO,I;K;IA3iBX,iC;MAsjBI,WkB33tBO,MAAO,KlB23tBG,gBkB33tBH,ElBs4BH,KAqjBoB,OkB33tBf,C;MlB43tBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAxjBqB,GAwjBP,UAAK,CAAL,CAxjBO,EAAnB,KAwjBqB,CAAM,CAAN,CAxjBF,CAwjBrB,C;;MAxjBT,OA0jBO,I;K;IAvjBX,iC;MAkkBI,WkB35tBO,MAAO,KlB25tBG,gBkB35tBH,ElBg6BH,KAikBoB,OkB35tBf,C;MlB45tBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WApkBqB,GAokBP,UAAK,CAAL,CApkBO,EAAnB,KAokBqB,CAAM,CAAN,CApkBF,CAokBrB,C;;MApkBT,OAskBO,I;K;IAnkBX,iC;MA8kBI,WkB37tBO,MAAO,KlB27tBG,gBkB37tBH,ElB07BH,KA6kBoB,OkB37tBf,C;MlB47tBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAhlBqB,GAglBP,UAAK,CAAL,CAhlBO,EAAnB,KAglBqB,CAAM,CAAN,CAhlBF,CAglBrB,C;;MAhlBT,OAklBO,I;K;IA/kBX,iC;MA0lBI,WkB39tBO,MAAO,KlB29tBG,gBkB39tBH,ElBs8BH,KAylBoB,OkB39tBf,C;MlB49tBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WA5lBqB,GA4lBP,UAAK,CAAL,CA5lBO,EAAnB,KA4lBqB,CAAM,CAAN,CA5lBF,CA4lBrB,C;;MA5lBT,OA8lBO,I;K;IA3lBX,iC;MAsmBI,WkB3/tBO,MAAO,KlB2/tBG,gBkB3/tBH,ElBs+BH,KAqmBoB,OkB3/tBf,C;MlB4/tBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAxmBqB,GAwmBP,UAAK,CAAL,CAxmBO,EAAnB,KAwmBqB,CAAM,CAAN,CAxmBF,CAwmBrB,C;;MAxmBT,OA0mBO,I;K;IAvmBX,iC;MAknBI,WkB3huBO,MAAO,KlB2huBG,gBkB3huBH,ElBggCH,KAinBoB,OkB3huBf,C;MlB4huBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WApnBqB,GAonBP,UAAK,CAAL,CApnBO,EAAnB,KAonBqB,CAAM,CAAN,CApnBF,CAonBrB,C;;MApnBT,OAsnBO,I;K;IAnnBX,iC;MA8nBI,WkB3juBO,MAAO,KlB2juBG,gBkB3juBH,ElB0gCH,KA6nBoB,OkB3juBf,C;MlB4juBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAhoBqB,GAgoBP,UAAK,CAAL,CAhoBO,EAAnB,KAgoBqB,CAAM,CAAN,CAhoBF,CAgoBrB,C;;MAhoBT,OAkoBO,I;K;IA/nBX,iC;MA0oBI,WkB3luBO,MAAO,KlB2luBG,gBkB3luBH,ElBshCH,KAyoBoB,OkB3luBf,C;MlB4luBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WA5oBqB,GA4oBP,UAAK,CAAL,CA5oBO,EAAnB,KA4oBqB,CAAM,CAAN,CA5oBF,CA4oBrB,C;;MA5oBT,OA8oBO,I;K;IA3oBX,iC;MAspBI,WkB3nuBO,MAAO,KlB2nuBG,gBkB3nuBH,ElBsiCH,KAqpBoB,OkB3nuBf,C;MlB4nuBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAxpBqB,GAwpBP,UAAK,CAAL,CAxpBO,EAAnB,KAwpBqB,CAAM,CAAN,CAxpBF,CAwpBrB,C;;MAxpBT,OA0pBO,I;K;IAvpBX,iC;MAkqBI,WkB3puBO,MAAO,KlB2puBG,gBkB3puBH,ElBgjCH,KAiqBoB,OkB3puBf,C;MlB4puBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WApqBqB,GAoqBP,UAAK,CAAL,CApqBO,EAAnB,KAoqBqB,CAAM,CAAN,CApqBF,CAoqBrB,C;;MApqBT,OAsqBO,I;K;IAnqBX,iC;MA8qBI,WkB3ruBO,MAAO,KlB2ruBG,gBkB3ruBH,ElB0jCH,KA6qBoB,OkB3ruBf,C;MlB4ruBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAhrBqB,GAgrBP,UAAK,CAAL,CAhrBO,EAAnB,KAgrBqB,CAAM,CAAN,CAhrBF,CAgrBrB,C;;MAhrBT,OAkrBO,I;K;IA/qBX,iC;MA0rBI,WkB3tuBO,MAAO,KlB2tuBG,gBkB3tuBH,ElBskCH,KAyrBoB,OkB3tuBf,C;MlB4tuBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WA5rBqB,GA4rBP,UAAK,CAAL,CA5rBO,EAAnB,KA4rBqB,CAAM,CAAN,CA5rBF,CA4rBrB,C;;MA5rBT,OA8rBO,I;K;IA3rBX,iC;MAssBI,WkB3vuBO,MAAO,KlB2vuBG,gBkB3vuBH,ElBslCH,KAqsBoB,OkB3vuBf,C;MlB4vuBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAxsBqB,GAwsBP,UAAK,CAAL,CAxsBO,EAAnB,KAwsBqB,CAAM,CAAN,CAxsBF,CAwsBrB,C;;MAxsBT,OA0sBO,I;K;IAvsBX,iC;MAktBI,WkB3xuBO,MAAO,KlB2xuBG,gBkB3xuBH,ElBgmCH,KAitBoB,OkB3xuBf,C;MlB4xuBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAptBqB,GAotBP,UAAK,CAAL,CAptBO,EAAnB,KAotBqB,CAAM,CAAN,CAptBF,CAotBrB,C;;MAptBT,OAstBO,I;K;IAntBX,iC;MA8tBI,WkB3zuBO,MAAO,KlB2zuBG,gBkB3zuBH,ElB0mCH,KA6tBoB,OkB3zuBf,C;MlB4zuBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAhuBqB,GAguBP,UAAK,CAAL,CAhuBO,EAAnB,KAguBqB,CAAM,CAAN,CAhuBF,CAguBrB,C;;MAhuBT,OAkuBO,I;K;IA/tBX,iC;MA0uBI,WkB31uBO,MAAO,KlB21uBG,gBkB31uBH,ElBsnCH,KAyuBoB,OkB31uBf,C;MlB41uBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WA5uBqB,GA4uBP,UAAK,CAAL,CA5uBO,EAAnB,KA4uBqB,CAAM,CAAN,CA5uBF,CA4uBrB,C;;MA5uBT,OA8uBO,I;K;IA3uBX,iC;MAsvBI,WkB33uBO,MAAO,KlB23uBG,gBkB33uBH,ElBsoCH,KAqvBoB,OkB33uBf,C;MlB43uBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAxvBqB,GAwvBP,UAAK,CAAL,CAxvBO,EAAnB,KAwvBqB,CAAM,CAAN,CAxvBF,CAwvBrB,C;;MAxvBT,OA0vBO,I;K;IAvvBX,iC;MAkwBI,WkB35uBO,MAAO,KlB25uBG,gBkB35uBH,ElBgpCH,KAiwBoB,OkB35uBf,C;MlB45uBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WApwBqB,GAowBP,UAAK,CAAL,CApwBO,EAAnB,KAowBqB,CAAM,CAAN,CApwBF,CAowBrB,C;;MApwBT,OAswBO,I;K;IAnwBX,iC;MA8wBI,WkB37uBO,MAAO,KlB27uBG,gBkB37uBH,ElB0pCH,KA6wBoB,OkB37uBf,C;MlB47uBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAhxBqB,GAgxBP,UAAK,CAAL,CAhxBO,EAAnB,KAgxBqB,CAAM,CAAN,CAhxBF,CAgxBrB,C;;MAhxBT,OAkxBO,I;K;IA/wBX,iC;MA0xBI,WkB39uBO,MAAO,KlB29uBG,gBkB39uBH,ElBsqCH,KAyxBoB,OkB39uBf,C;MlB49uBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WA5xBqB,GA4xBP,UAAK,CAAL,CA5xBO,EAAnB,KA4xBqB,CAAM,CAAN,CA5xBF,CA4xBrB,C;;MA5xBT,OA8xBO,I;K;IA3xBX,iC;MAsyBI,WkB3/uBO,MAAO,KlB2/uBG,gBkB3/uBH,ElBsrCH,KAqyBoB,OkB3/uBf,C;MlB4/uBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAxyBqB,GAwyBP,UAAK,CAAL,CAxyBO,EAAnB,KAwyBqB,CAAM,CAAN,CAxyBF,CAwyBrB,C;;MAxyBT,OA0yBO,I;K;IAvyBX,iC;MAkzBI,WkB3hvBO,MAAO,KlB2hvBG,gBkB3hvBH,ElBgsCH,KAizBoB,OkB3hvBf,C;MlB4hvBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WApzBqB,GAozBP,UAAK,CAAL,CApzBO,EAAnB,KAozBqB,CAAM,CAAN,CApzBF,CAozBrB,C;;MApzBT,OAszBO,I;K;IAnzBX,iC;MA8zBI,WkB3jvBO,MAAO,KlB2jvBG,gBkB3jvBH,ElB0sCH,KA6zBoB,OkB3jvBf,C;MlB4jvBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAh0BqB,GAg0BP,UAAK,CAAL,CAh0BO,EAAnB,KAg0BqB,CAAM,CAAN,CAh0BF,CAg0BrB,C;;MAh0BT,OAk0BO,I;K;IA/zBX,iC;MA00BI,WkB3lvBO,MAAO,KlB2lvBG,gBkB3lvBH,ElBstCH,KAy0BoB,OkB3lvBf,C;MlB4lvBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WA50BqB,GA40BP,UAAK,CAAL,CA50BO,EAAnB,KA40BqB,CAAM,CAAN,CA50BF,CA40BrB,C;;MA50BT,OA80BO,I;K;IA30BX,iC;MAs1BI,WkB3nvBO,MAAO,KlB2nvBG,gBkB3nvBH,ElBsuCH,KAq1BoB,OkB3nvBf,C;MlB4nvBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAx1BqB,GAw1BP,UAAK,CAAL,CAx1BO,EAAnB,KAw1BqB,CAAM,CAAN,CAx1BF,CAw1BrB,C;;MAx1BT,OA01BO,I;K;IAv1BX,iC;MAk2BI,WkB3pvBO,MAAO,KlB2pvBG,gBkB3pvBH,ElBgvCH,KAi2BoB,OkB3pvBf,C;MlB4pvBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAp2BqB,GAo2BP,UAAK,CAAL,CAp2BO,EAAnB,KAo2BqB,CAAM,CAAN,CAp2BF,CAo2BrB,C;;MAp2BT,OAs2BO,I;K;IAn2BX,iC;MA82BI,WkB3rvBO,MAAO,KlB2rvBG,gBkB3rvBH,ElB0vCH,KA62BoB,OkB3rvBf,C;MlB4rvBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAh3BqB,GAg3BP,UAAK,CAAL,CAh3BO,EAAnB,KAg3BqB,CAAM,CAAN,CAh3BF,CAg3BrB,C;;MAh3BT,OAk3BO,I;K;IA/2BX,iC;MA03BI,WkB3tvBO,MAAO,KlB2tvBG,gBkB3tvBH,ElBswCH,KAy3BoB,OkB3tvBf,C;MlB4tvBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WA53BqB,GA43BP,UAAK,CAAL,CA53BO,EAAnB,KA43BqB,CAAM,CAAN,CA53BF,CA43BrB,C;;MA53BT,OA83BO,I;K;IA33BX,iC;MAs4BI,WkB3vvBO,MAAO,KlB2vvBG,gBkB3vvBH,ElBsxCH,KAq4BoB,OkB3vvBf,C;MlB4vvBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAx4BqB,GAw4BP,UAAK,CAAL,CAx4BO,EAAnB,KAw4BqB,CAAM,CAAN,CAx4BF,CAw4BrB,C;;MAx4BT,OA04BO,I;K;IAv4BX,iC;MAk5BI,WkB3xvBO,MAAO,KlB2xvBG,gBkB3xvBH,ElBgyCH,KAi5BoB,OkB3xvBf,C;MlB4xvBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAp5BqB,GAo5BP,UAAK,CAAL,CAp5BO,EAAnB,KAo5BqB,CAAM,CAAN,CAp5BF,CAo5BrB,C;;MAp5BT,OAs5BO,I;K;IAn5BX,iC;MA85BI,WkB3zvBO,MAAO,KlB2zvBG,gBkB3zvBH,ElB0yCH,KA65BoB,OkB3zvBf,C;MlB4zvBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAh6BqB,GAg6BP,UAAK,CAAL,CAh6BO,EAAnB,KAg6BqB,CAAM,CAAN,CAh6BF,CAg6BrB,C;;MAh6BT,OAk6BO,I;K;IA/5BX,iC;MA06BI,WkB31vBO,MAAO,KlB21vBG,gBkB31vBH,ElBszCH,KAy6BoB,OkB31vBf,C;MlB41vBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WA

GoB,gB;MAHhB,gBAAgB,gB;MAChB,WAAW,iBkBt3rBJ,MAAO,KlBs3rBsB,wBA5FzB,KA4FyB,EAAwB,EA
AxB,CkBt3rBtB,ElBs3rBmD,SkBt3rBnD,ClBs3rBH,C;MACX,QAAQ,C;MACQ,OA9FL,KA8FK,W;MAAhB,OA
AgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,KAAK,SAAT,C;UAAoB,K;QACpB,IAAK,WAhGqB,GAgGP,UAAK,U
AAL,EAAK,kBAAL,SAhGO,EAgGI,OAhGJ,CAgGrB,C;;MAhGT,OAkGO,I;K;IA/FX,kC;MA6GoB,gB;MAHhB,
gBAAgB,gB;MAChB,WAAW,iBkBx4rBJ,MAAO,KlBw4rBsB,wBApGzB,KAoGyB,EAAwB,EAAxB,CkBx4rBtB
,ElBw4rBmD,SkBx4rBnD,ClBw4rBH,C;MACX,QAAQ,C;MACQ,OAtGL,KAsGK,W;MAAhB,OAAgB,cAAhB,C
;QAAgB,yB;QACZ,IAAI,KAAK,SAAT,C;UAAoB,K;QACpB,IAAK,WAxGqB,GAwGP,UAAK,UAAL,EAAK,kB
AL,SAxGO,EAwGI,OAxGJ,CAwGrB,C;;MAxGT,OA0GO,I;K;IAvGX,kC;MAqHoB,gB;MAHhB,gBAAgB,gB;
MAChB,WAAW,iBkB15rBJ,MAAO,KlB05rBsB,wBA5GzB,KA4GyB,EAAwB,EAAxB,CkB15rBtB,ElB05rBmD,
SkB15rBnD,ClB05rBH,C;MACX,QAAQ,C;MACQ,OA9GL,KA8GK,W;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;
QACZ,IAAI,KAAK,SAAT,C;UAAoB,K;QACpB,IAAK,WAhHqB,GAgHP,UAAK,UAAL,EAAK,kBAAL,SAhHO
,EAgHI,OAhHJ,CAgHrB,C;;MAhHT,OAkHO,I;K;IA/GX,kC;MA6HoB,gB;MAHhB,gBAAgB,gB;MAChB,WAAW,
iBkB56rBJ,MAAO,KlB46rBsB,wBApHzB,KAoHyB,EAAwB,EAAxB,CkB56rBtB,ElB46rBmD,SkB56rBnD,Cl
B46rBH,C;MACX,QAAQ,C;MACQ,OAtHL,KAsHK,W;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,KA
AK,SAAT,C;UAAoB,K;QACpB,IAAK,WAxHqB,GAwHP,UAAK,UAAL,EAAK,kBAAL,SAxHO,EAwHI,OAxHJ,
CAwHrB,C;;MAxHT,OA0HO,I;K;IAvHX,kC;MAqIoB,gB;MAHhB,gBAAgB,gB;MAChB,WAAW,iBkB97rBJ,
MAAO,KlB87rBsB,wBA5HzB,KA4HyB,EAAwB,EAAxB,CkB97rBtB,ElB87rBmD,SkB97rBnD,ClB87rBH,C;MA
CX,QAAQ,C;MACQ,OA9HL,KA8HK,W;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,KAAK,SAAT,C
;UAAoB,K;QACpB,IAAK,WAhIqB,GAgIP,UAAK,UAAL,EAAK,kBAAL,SAhIO,EAgII,OAhIJ,CAgIrB,C;;MAhIT
,OAkIO,I;K;IA/HX,kC;MA6IoB,gB;MAHhB,gBAAgB,gB;MAChB,WAAW,iBkBh9rBJ,MAAO,KlBg9rBsB,
wBApIzB,KAoIyB,EAAwB,EAAxB,CkBh9rBtB,ElBg9rBmD,SkBh9rBnD,ClBg9rBH,C;MACX,QAAQ,C;MACQ
,OAtIL,KAsIK,W;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,KAAK,SAAT,C;UAAoB,K;QACpB,IAAK,
WAxIqB,GAwIP,UAAK,UAAL,EAAK,kBAAL,SAxIO,EAwII,OAxIJ,CAwIrB,C;;MAxIT,OA0IO,I;K;IAvIX,
kC;MAqJoB,gB;MAHhB,gBAAgB,gB;MAChB,WAAW,iBkBl+rBJ,MAAO,KlBk+rBsB,wBA5IzB,KA4IyB,EAAwB
,EAAxB,CkBl+rBtB,ElBk+rBmD,SkBl+rBnD,ClBk+rBH,C;MACX,QAAQ,C;MACQ,OA9IL,KA8IK,W;MAAhB,OAAgB,
cAAhB,C;QAAgB,yB;QACZ,IAAI,KAAK,SAAT,C;UAAoB,K;QACpB,IAAK,WAhJqB,GAgJP,UAAK,UAAL,EAAK,
kBAAL,SAhJO,EAgJI,OAhJJ,CAgJrB,C;;MAhJT,OAkJO,I;K;IA/IX,kC;MA6JoB,gB;MAHhB,gBAAgB,gB;MAC
hB,WAAW,iBkBp/rBJ,MAAO,KlBo/rBsB,wBApJzB,KAoJyB,EAAwB,EAAxB,CkBp/rBtB,ElBo/rBmD,SkBp
/rBnD,ClBo/rBH,C;MACX,QAAQ,C;MACQ,OAtJL,KAsJK,W;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,
KAAK,SAAT,C;UAAoB,K;QACpB,IAAK,WAxJqB,GAwJP,UAAK,UAAL,EAAK,kBAAL,SAxJO,EAwJI,OAxJJ,
CAwJrB,C;;MAxJT,OA0JO,I;K;IAvJX,kC;MAqKoB,gB;MAHhB,gBAAgB,gB;MAChB,WAAW,iBkBtgsBJ,
MAAO,KlBsgsBsB,wBA5JzB,KA4JyB,EAAwB,EAAxB,CkBtgsBtB,ElBsgsBmD,SkBtgsBnD,ClBsgsBH,C;MA
CX,QAAQ,C;MACQ,OA9JL,KA8JK,W;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,KAAK,SAAT,C
;UAAoB,K;QACpB,IAAK,WAhKqB,GAgKP,UAAK,UAAL,EAAK,kBAAL,SAhKO,EAgKI,OAhKJ,CAgKrB,C;;MAhKT
,OAkKO,I;K;IA/JX,kC;MA6KoB,gB;MAHhB,gBAAgB,gB;MAChB,WAAW,iBkBxhsBJ,MAAO,KlBwhsBsB,
wBApKzB,KAoKyB,EAAwB,EAAxB,CkBxhsBtB,ElBwhsBmD,SkBxhsBnD,ClBwhsBH,C;MACX,QAAQ,C;MACQ
,OAtKL,KAsKK,W;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,KAAK,SAAT,C;UAAoB,K;QACpB,IAAK,
WAxKqB,GAwKP,UAAK,UAAL,EAAK,kBAAL,SAxKO,EAwKI,OAxKJ,CAwKrB,C;;MAxKT,OA0KO,I;K;IAvKX,
kC;MAqLoB,gB;MAHhB,gBAAgB,gB;MAChB,WAAW,iBkB1isBJ,MAAO,KlB0isBsB,wBA5KzB,KA4KyB,EAAwB
,EAAxB,CkB1isBtB,ElB0isBmD,SkB1isBnD,ClB0isBH,C;MACX,QAAQ,C;MACQ,OA9KL,KA8KK,W;MAAhB,OAAgB,
cAAhB,C;QAAgB,yB;QACZ,IAAI,KAAK,SAAT,C;UAAoB,K;QACpB,IAAK,WAhLqB,GAgLP,UAAK,UAAL,EAAK,
kBAAL,SAhLO,EAgLI,OAhLJ,CAgLrB,C;;MAhLT,OAkLO,I;K;IA/KX,kC;MA6MoB,gB;MAHhB,gBAAgB,gB;MAC
hB,WAAW,iBkB5jsBJ,MAAO,KlB4jsBsB,wBApLzB,KAoLyB,EAAwB,EAAxB,CkB5jsBtB,ElB4jsBmD,SkB5j
sBnD,ClB4jsBH,C;MACX,QAAQ,C;MACQ,OAtLL,KAsLK,W;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,
KAAK,SAAT,C;UAAoB,K;QACpB,IAAK,WAxLqB,GAwLP,UAAK,UAAL,EAAK,kBAAL,SAxLO,EAwLI,OAxLJ,
CAwLrB,C;;MAxLT,OA0LO,I;K;IAvLX,kC;MAqMoB,gB;MAHhB,gBAAgB,gB;MAChB,WAAW,iBkB9ksBJ,
MAAO,KlB8ksBsB,wBA5LzB,KA4LyB,EAAwB,EAAxB,CkB9ksBtB,ElB8ksBmD,SkB9ksBnD,ClB8ksBH,C;MA
CX,QAAQ,C;MACQ,OA9LL,KA8LK,W;MAAhB,OAAgB,cAAhB,C

MAAO,KlB46rBsB,wBAAN,KAAM,EAAwB,EAAxB,CkB56rBtB,ElB46rBmD,SkB56rBnD,ClB46rBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkB37rBA,iB;MlB27rBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekB97rBJ,MAAO,KlB87rBsB,wBAAN,KAAM,EAAwB,EAAxB,CkB97rBtB,ElB87rBmD,SkB97rBnD,ClB87rBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkB78rBA,iB;MlB68rBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekBh9rBJ,MAAO,KlBg9rBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBh9rBtB,ElBg9rBmD,SkBh9rBnD,ClBg9rBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkBn+rBA,iB;MlBm+rBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekBt+rBJ,MAAO,KlBs+rBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBt+rBtB,ElBs+rBmD,SkBt+rBnD,ClBs+rBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkBz/rBA,iB;MlBy/rBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekB5/rBJ,MAAO,KlB4/rBsB,wBAAN,KAAM,EAAwB,EAAxB,CkB5/rBtB,ElB4/rBmD,SkB5/rBnD,ClB4/rBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkBrhsBA,iB;MlBqhsBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekBxhsBJ,MAAO,KlBwhsBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBxhsBtB,ElBwhsBmD,SkBxhsBnD,ClBwhsBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkBjjsBA,iB;MlBijsBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekBpjsBJ,MAAO,KlBojsBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBpjsBtB,ElBojsBmD,SkBpjsBnD,ClBojsBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkB7lsBA,iB;MlB6lsBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekBhmsBJ,MAAO,KlBgmsBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBhmsBtB,ElBgmsBmD,SkBhmsBnD,ClBgmsBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkBzosBA,iB;MlBwosBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekB5osBJ,MAAO,KlB4osBsB,wBAAN,KAAM,EAAwB,EAAxB,CkB5osBtB,ElB4osBmD,SkB5osBnD,ClB4osBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkBrrsBA,iB;MlBqrsBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekBxrsBJ,MAAO,KlBwrsBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBxrsBtB,ElBwrsBmD,SkBxrsBnD,ClBwrsBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkBjusBA,iB;MlBiusBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekBpusBJ,MAAO,KlBousBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBpusBtB,ElBousBmD,SkBpusBnD,ClBousBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkB7xsBA,iB;MlB6xsBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekBhysBJ,MAAO,KlBgysBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBhysBtB,ElBgysBmD,SkBhysBnD,ClBgysBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkBz1sBA,iB;MlBy1sBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekB51sBJ,MAAO,KlB41sBsB,wBAAN,KAAM,EAAwB,EAAxB,CkB51sBtB,ElB41sBmD,SkB51sBnD,ClB41sBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkBr5sBA,iB;MlBq5sBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekBx5sBJ,MAAO,KlBw5sBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBx5sBtB,ElBw5sBmD,SkBx5sBnD,ClBw5sBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkBj9sBA,iB;MlBi9sBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekBp9sBJ,MAAO,KlBo9sBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBp9sBtB,ElBo9sBmD,SkBp9sBnD,ClBo9sBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkBrhtBA,iB;MlBqhtBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekBxhtBJ,MAAO,KlBwhtBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBxhtBtB,ElBwhtBmD,SkBxhtBnD,ClBwhtBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkBjltBA,iB;MlBiltBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekBpltBJ,MAAO,KlBoltBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBpltBtB,ElBoltBmD,SkBpltBnD,ClBoltBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkB7ptBA,iB;MlB6ptBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekBhqtBJ,MAAO,KlBgqtBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBhqtBtB,ElBgqtBmD,SkBhqtBnD,ClBgqtBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkBzttBA,iB;MlBwttBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekB5ttBJ,MAAO,KlB4ttBsB,wBAAN,KAAM,EAAwB,EAAxB,CkB5ttBtB,ElB4ttBmD,SkB5ttBnD,ClB4ttBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkBrxtBA,iB;MlBqxtBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekBxxtBJ,MAAO,KlBwxtBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBxxtBtB,ElBwxtBmD,SkBxxtBnD,ClBwxtBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkBj1tBA,iB;MlBi1tBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekBp1tBJ,MAAO,KlBo1tBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBp1tBtB,ElBo1tBmD,SkBp1tBnD,ClBo1tBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkB74tBA,iB;MlB64tBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekBh5tBJ,MAAO,KlBg5tBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBh5tBtB,ElBg5tBmD,SkBh5tBnD,ClBg5tBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkBz8tBA,iB;MlBy8tBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekB58tBJ,MAAO,KlB48tBsB,wBAAN,KAAM,EAAwB,EAAxB,CkB58tBtB,ElB48tBmD,SkB58tBnD,ClB48tBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkBr/tBA,iB;MlBq/tBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekBx/tBJ,MAAO,KlBw/tBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBx/tBtB,ElBw/tBmD,SkBx/tBnD,ClBw/tBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkBjiuBA,iB;MlBiiuBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekBpiuBJ,MAAO,KlBoiuBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBpiuBtB,ElBoiuBmD,SkBpiuBnD,ClBoiuBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkB7luBA,iB;MlB6luBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekBhmuBJ,MAAO,KlBgmuBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBhmuBtB,ElBgmuBmD,SkBhmuBnD,ClBgmuBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkBzouBA,iB;MlBwouBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekB5ouBJ,MAAO,KlB4ouBsB,wBAAN,KAAM,EAAwB,EAAxB,CkB5ouBtB,ElB4ouBmD,SkB5ouBnD,ClB4ouBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkBrruBA,iB;MlBqruBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekBxruBJ,MAAO,KlBwruBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBxruBtB,ElBwruBmD,SkBxruBnD,ClBwruBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkBjvuBA,iB;MlBivuBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekBpvuBJ,MAAO,KlBovuBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBpvuBtB,ElBovuBmD,SkBpvuBnD,ClBovuBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkB7xuBA,iB;MlB6xuBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekBhyuBJ,MAAO,KlBgyuBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBhyuBtB,ElBgyuBmD,SkBhyuBnD,ClBgyuBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkBz0uBA,iB;MlBy0uBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekB50uBJ,MAAO,KlB40uBsB,wBAAN,KAAM,EAAwB,EAAxB,CkB50uBtB,ElB40uBmD,SkB50uBnD,ClB40uBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkBr4uBA,iB;MlBq4uBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekBx4uBJ,MAAO,KlBw4uBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBx4uBtB,ElBw4uBmD,SkBx4uBnD,ClBw4uBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkBj8uBA,iB;MlBi8uBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekBp8uBJ,MAAO,KlBo8uBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBp8uBtB,ElBo8uBmD,SkBp8uBnD,ClBo8uBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkBrhvBA,iB;MlBqhvBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekBxhvBJ,MAAO,KlBwhvBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBxhvBtB,ElBwhvBmD,SkBxhvBnD,ClBwhvBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkBjmvBA,iB;MlBimvBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekBpmvBJ,MAAO,KlBomvBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBpmvBtB,ElBomvBmD,SkBpmvBnD,ClBomvBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkB7qvBA,iB;MlB6qvBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekBhrvBJ,MAAO,KlBgrvBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBhrvBtB,ElBgrvBmD,SkBhrvBnD,ClBgrvBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkBzuvBA,iB;MlBwuvBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekB5uvBJ,MAAO,KlB4uvBsB,wBAAN,KAAM,EAAwB,EAAxB,CkB5uvBtB,ElB4uvBmD,SkB5uvBnD,ClB4uvBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkBrzvBA,iB;MlBqzvBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekBxzvBJ,MAAO,KlBwzvBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBxzvBtB,ElBwzvBmD,SkBxzvBnD,ClBwzvBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkBj3vBA,iB;MlBi3vBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekBp3vBJ,MAAO,KlBo3vBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBp3vBtB,ElBo3vBmD,SkBp3vBnD,ClBo3vBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkB75vBA,iB;MlB65vBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekBh6vBJ,MAAO,KlBg6vBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBh6vBtB,ElBg6vBmD,SkBh6vBnD,ClBg6vBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkBz8vBA,iB;MlBy8vBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekB58vBJ,MAAO,KlB48vBsB,wBAAN,KAAM,EAAwB,EAAxB,CkB58vBtB,ElB48vBmD,SkB58vBnD,ClB48vBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkBr+vBA,iB;MlBq+vBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekBx+vBJ,MAAO,KlBw+vBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBx+vBtB,ElBw+vBmD,SkBx+vBnD,ClBw+vBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkBjgwBA,iB;MlBigwBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekBpgwBJ,MAAO,KlBogwBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBpgwBtB,ElBogwBmD,SkBpgwBnD,ClBogwBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkB7hwBA,iB;MlB6hwBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekBhiwBJ,MAAO,KlBgiwBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBhiwBtB,ElBgiwBmD,SkBhiwBnD,ClBgiwBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkBzkwBA,iB;MlBykwBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekB5kwBJ,MAAO,KlB4kwBsB,wBAAN,KAAM,EAAwB,EAAxB,CkB5kwBtB,ElB4kwBmD,SkB5kwBnD,ClB4kwBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkBrnwBA,iB;MlBqnwBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekBxnwBJ,MAAO,KlBwnwBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBxnwBtB,ElBwnwBmD,SkBxnwBnD,ClBwnwBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkBjpwBA,iB;MlBipwBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekBppwBJ,MAAO,KlBopwBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBppwBtB,ElBopwBmD,SkBppwBnD,ClBopwBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkB7rwBA,iB;MlB6rwBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;Q

CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrnsBA,iB;MlBqnsBA,8C;QAQI,WkBvnsBO,MAAO,KlBunsBG,gBkBvnsBH,ElBunsBS,KAAM,OkBvnsBf,C;QlBwnsBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrosBA,iB;MlBqosBA,8C;QAQI,WkBvosBO,MAAO,KlBuosBG,gBkBvosBH,ElBuosBS,KAAM,OkBvosBf,C;QlBwosBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrpsBA,iB;MlBqpsBA,8C;QAQI,WkBvpsBO,MAAO,KlBupsBG,gBkBvpsBH,ElBupsBS,KAAM,OkBvpsBf,C;QlBwpsBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrqsBA,iB;MlBqqsBA,8C;QAQI,WkBvqsBO,MAAO,KlBuqsBG,gBkBvqsBH,ElBuqsBS,KAAM,OkBvqsBf,C;QlBwqsBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrrsBA,iB;MlBqrsBA,8C;QAQI,WkBvrsBO,MAAO,KlBursBG,gBkBvrsBH,ElBursBS,KAAM,OkBvrsBf,C;QlBwrsBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrssBA,iB;MlBqssBA,8C;QAQI,WkBvssBO,MAAO,KlBussBG,gBkBvssBH,ElBussBS,KAAM,OkBvssBf,C;QlBwssBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrtsBA,iB;MlBqtsBA,8C;QAQI,WkBvtsBO,MAAO,KlButsBG,gBkBvtsBH,ElButsBS,KAAM,OkBvtsBf,C;QlBwtsBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrusBA,iB;MlBqusBA,8C;QAQI,WkBvusBO,MAAO,KlBusBG,gBkBvusBH,ElBusBS,KAAM,OkBvusBf,C;QlBwusBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrvsBA,iB;MlBqvsBA,8C;QAQI,WkBvvsBO,MAAO,KlBuvsBG,gBkBvvsBH,ElBuvsBS,KAAM,OkBvvsBf,C;QlBwvsBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrwsBA,iB;MlBqwsBA,8C;QAQI,WkBvwsBO,MAAO,KlBuwsBG,gBkBvwsBH,ElBuwsBS,KAAM,OkBvwsBf,C;QlBwwsBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MAAA,oC;MkBrxsBA,iB;MlBqxsBA,8C;QAQI,WkBvxsBO,MAAO,KlBuxsBG,gBkBvxsBH,ElBuxsBS,KAAM,OkBvxsBf,C;QlBwxsBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrysBA,iB;MlBqysBA,8C;QAQI,WkBvysBO,MAAO,KlBuysBG,gBkBvysBH,ElBuysBS,KAAM,OkBvysBf,C;QlBwysBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrzsBA,iB;MlBqzsBA,8C;QAQI,WkBvzsBO,MAAO,KlBuzsBG,gBkBvzsBH,ElBuzsBS,KAAM,OkBvzsBf,C;QlBwzsBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBr0sBA,iB;MlBq0sBA,8C;QAQI,WkBv0sBO,MAAO,KlBu0sBG,gBkBv0sBH,ElBu0sBS,KAAM,OkBv0sBf,C;QlBw0sBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBr1sBA,iB;MlBq1sBA,8C;QAQI,WkBv1sBO,MAAO,KlBu1sBG,gBkBv1sBH,ElBu1sBS,KAAM,OkBv1sBf,C;QlBw1sBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBr2sBA,iB;MlBq2sBA,8C;QAQI,WkBv2sBO,MAAO,KlBu2sBG,gBkBv2sBH,ElBu2sBS,KAAM,OkBv2sBf,C;QlBw2sBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBr3sBA,iB;MlBq3sBA,8C;QAQI,WkBv3sBO,MAAO,KlBu3sBG,gBkBv3sBH,ElBu3sBS,KAAM,OkBv3sBf,C;QlBw3sBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBr4sBA,iB;MlBq4sBA,8C;QAQI,WkBv4sBO,MAAO,KlBu4sBG,gBkBv4sBH,ElBu4sBS,KAAM,OkBv4sBf,C;QlBw4sBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBr5sBA,iB;MlBq5sBA,8C;QAQI,WkBv5sBO,MAAO,KlBu5sBG,gBkBv5sBH,ElBu5sBS,KAAM,OkBv5sBf,C;QlBw5sBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBr6sBA,iB;MlBq6sBA,8C;QAQI,WkBv6sBO,MAAO,KlBu6sBG,gBkBv6sBH,ElBu6sBS,KAAM,OkBv6sBf,C;QlBw6sBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBr7sBA,iB;MlBq7sBA,8C;QAQI,WkBv7sBO,MAAO,KlBu7sBG,gBkBv7sBH,ElBu7sBS,KAAM,OkBv7sBf,C;QlBw7sBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBr8sBA,iB;MlBq8sBA,8C;QAQI,WkBv8sBO,MAAO,KlBu8sBG,gBkBv8sBH,ElBu8sBS,KAAM,OkBv8sBf,C;QlBw8sBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBr9sBA,iB;MlBq9sBA,8C;QAQI,WkBv9sBO,MAAO,KlBu9sBG,gBkBv9sBH,ElBu9sBS,KAAM,OkBv9sBf,C;QlBw9sBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBr+sBA,iB;MlBq+sBA,8C;QAQI,WkBv+sBO,MAAO,KlBu+sBG,gBkBv+sBH,ElBu+sBS,KAAM,OkBv+sBf,C;QlBw+sBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBr/sBA,iB;MlBq/sBA,8C;QAQI,WkBv/sBO,MAAO,KlBu/sBG,gBkBv/sBH,ElBu/sBS,KAAM,OkBv/sBf,C;QlBw/sBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrgtBA,iB;MlBqgtBA,8C;QAQI,WkBvgtBO,MAAO,KlBugtBG,gBkBvgtBH,ElBugtBS,KAAM,OkBvgtBf,C;QlBwgtBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrhtBA,iB;MlBqhtBA,8C;QAQI,WkBvhtBO,MAAO,KlBuhtBG,gBkBvhtBH,ElBuhtBS,KAAM,OkBvhtBf,C;QlBwhtBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBritBA,iB;MlBqitBA,8C;QAQI,WkBvitBO,MAAO,KlBuitBG,gBkBvitBH,ElBuitBS,KAAM,OkBvitBf,C;QlBwitBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrjtBA,iB;MlBqjtBA,8C;QAQI,WkBvjtBO,MAAO,KlBujtBG,gBkBvjtBH,ElBujtBS,KAAM,OkBvjtBf,C;QlBwjtBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrktBA,iB;MlBqktBA,8C;QAQI,WkBvktBO,MAAO,KlBuktBG,gBkBvktBH,ElBuktBS,KAAM,OkBvktBf,C;QlBwktBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrltBA,iB;MlBqltBA,8C;QAQI,WkBvltBO,MAAO,KlBultBG,gBkBvltBH,ElBultBS,KAAM,OkBvltBf,C;QlBwltBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrmtBA,iB;MlBqmtBA,8C;QAQI,WkBvmtBO,MAAO,KlBumtBG,gBkBvmtBH,ElBumtBS,KAAM,OkBvmtBf,C;QlBwmtBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrntBA,iB;MlBqntBA,8C;QAQI,WkBvntBO,MAAO,KlBuntBG,gBkBvntBH,ElBuntBS,KAAM,OkBvntBf,C;QlBwntBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrotBA,iB;MlBqotBA,8C;QAQI,WkBvotBO,MAAO,KlBuotBG,gBkBvotBH,ElBuotBS,KAAM,OkBvotBf,C;QlBwotBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrptBA,iB;MlBqptBA,8C;QAQI,WkBvptBO,MAAO,KlBuptBG,gBkBvptBH,ElBuptBS,KAAM,OkBvptBf,C;QlBwptBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrqtBA,iB;MlBqqtBA,8C;QAQI,WkBvqtBO,MAAO,KlBuqtBG,gBkBvqtBH,ElBuqtBS,KAAM,OkBvqtBf,C;QlBwqtBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrrtBA,iB;MlBqrtBA,8C;QAQI,WkBvrtBO,MAAO,KlBurtBG,gBkBvrtBH,ElBurtBS,KAAM,OkBvrtBf,C;QlBwrtBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrstBA,iB;MlBqstBA,8C;QAQI,WkBvstBO,MAAO,KlBustBG,gBkBvstBH,ElBustBS,KAAM,OkBvstBf,C;QlBwstBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrttBA,iB;MlBqttBA,8C;QAQI,WkBvttBO,MAAO,KlButtBG,gBkBvttBH,ElButtBS,KAAM,OkBvttBf,C;QlBwttBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrutBA,iB;MlBqutBA,8C;QAQI,WkBvutBO,MAAO,KlBuutBG,gBkBvutBH,ElBuutBS,KAAM,OkBvutBf,C;QlBwutBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrvtBA,iB;MlBqvtBA,8C;QAQI,WkBvvtBO,MAAO,KlBuvtBG,gBkBvvtBH,ElBuvtBS,KAAM,OkBvvtBf,C;QlBwvtBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrwtBA,iB;MlBqwtBA,8C;QAQI,WkBvwtBO,MAAO,KlBuwtBG,gBkBvwtBH,ElBuwtBS,KAAM,OkBvwtBf,C;QlBwwtBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrxtBA,iB;MlBqxtBA,8C;QAQI,WkBvxtBO,MAAO,KlBuxtBG,gBkBvxtBH,ElBuxtBS,KAAM,OkBvxtBf,C;QlBwxtBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrytBA,iB;MlBqytBA,8C;QAQI,WkBvytBO,MAAO,KlBuytBG,gBkBvytBH,ElBuytBS,KAAM,OkBvytBf,C;QlBwytBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrztBA,iB;MlBqztBA,8C;QAQI,WkBvztBO,MAAO,KlBuztBG,gBkBvztBH,ElBuztBS,KAAM,OkBvztBf,C;QlBwztBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBr0tBA,iB;MlBq0tBA,8C;QAQI,WkBv0tBO,MAAO,KlBu0tBG,gBkBv0tBH,ElBu0tBS,KAAM,OkBv0tBf,C;QlBw0tBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBr1tBA,iB;MlBq1tBA,8C;QAQI,WkBv1tBO,MAAO,KlBu1tBG,gBkBv1tBH,ElBu1tBS,KAAM,OkBv1tBf,C;QlBw1tBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBr2tBA,iB;MlBq2tBA,8C;QAQI,WkBv2tBO,MAAO,KlBu2tBG,gBkBv2tBH,ElBu2tBS,KAAM,OkBv2tBf,C;QlBw2tBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBr3tBA,iB;MlBq3tBA,8C;QAQI,WkBv3tBO,MAAO,KlBu3tBG,gBkBv3tBH,ElBu3tBS,KAAM,OkBv3tBf,C;QlBw3tBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBr4tBA,iB;MlBq4tBA,8C;QAQI,WkBv4tBO,MAAO,KlBu4tBG,gBkBv4tBH,ElBu4tBS,KAAM,OkBv4tBf,C;QlBw4tBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBr5tBA,iB;MlBq5tBA,8C;QAQI,WkBv5tBO,MAAO,KlBu5tBG,gBkBv5tBH,ElBu5tBS,KAAM,OkBv5tBf,C;QlBw5tBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBr6tBA,iB;MlBq6tBA,8C;QAQI,WkBv6tBO,MAAO,KlBu6tBG,gBkBv6tBH,ElBu6tBS,KAAM,OkBv6tBf,C;QlBw6tBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBr7tBA,iB;MlBq7tBA,8C;QAQI,WkBv7tBO,MAAO,KlBu7tBG,gBkBv7tBH,ElBu7tBS,KAAM,OkBv7tBf,C;QlBw7tBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBr8tBA,iB;MlBq8tBA,8C;QAQI,WkBv8tBO,MAAO,KlBu8tBG,gBkBv8tBH,ElBu8tBS,KAAM,OkBv8tBf,C;QlBw8tBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBr9tBA,iB;MlBq9tBA,8C;QAQI,WkBv9tBO,MAAO,KlBu9tBG,gBkBv9tBH,ElBu9tBS,KAAM,OkBv9tBf,C;QlBw9tBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBr+tBA,iB;MlBq+tBA,8C;QAQI,WkBv+tBO,MAAO,KlBu+tBG,gBkBv+tBH,ElBu+tBS,KAAM,OkBv+tBf,C;QlBw+tBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBr/tBA,iB;MlBq/tBA,8C;QAQI,WkBv/tBO,MAAO,KlBu/tBG,gBkBv/tBH,ElBu/tBS,KAAM,OkBv/tBf,C;QlBw/tBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrguBA,iB;MlBqguBA,8C;QAQI,WkBvguBO,MAAO,KlBuguBG,gBkBvguBH,ElBuguBS,KAAM,OkBvguBf,C;QlBwguBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrhuBA,iB;MlBqhuBA,8C;QAQI,WkBvhuBO,MAAO,KlBuhuBG,gBkBvhuBH,ElBuhuBS,KAAM,OkBvhuBf,C;QlBwhuBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBriuBA,iB;MlBqiuBA,8C;QAQI,WkBviuBO,MAAO,KlBuiuBG,gBkBviuBH,ElBuiuBS,KAAM,OkBviuBf,C;QlBwiuBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrjuBA,iB;MlBqjuBA,8C;QAQI,WkBvjuBO,MAAO,KlBujuBG,gBkBvjuBH,ElBujuBS,KAAM,OkBvjuBf,C;QlBwjuBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrkuBA,iB;MlBqkuBA,8C;QAQI,WkBvkuBO,MAAO,KlBukuBG,gBkBvkuBH,ElBukuBS,KAAM,OkBvkuBf,C;QlBwkuBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrluBA,iB;MlBqluBA,8C;QAQI,WkBvluBO,MAAO,KlBuluBG,gBkBvluBH,ElBuluBS,KAAM,OkBvluBf,C;QlBwluBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrmuBA,iB;MlBqmuBA,8C;QAQI,WkBvmuBO,MAAO,KlBumuBG,gBkBvmuBH,ElBumuBS,KAAM,OkBvmuBf,C;QlBwmuBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrnuBA,iB;MlBqnuBA,8C;QAQI,WkBvnuBO,MAAO,KlBunuBG,gBkBvnuBH,ElBunuBS,KAAM,OkBvnuBf,C;QlBwnuBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrouBA,iB;MlBqouBA,8C;QAQI,WkBvouBO,MAAO,KlBuouBG,gBkBvouBH,ElBuouBS,KAAM,OkBvouBf,C;QlBwouBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;

QAAgB,cAAA,SAAhB,M;QACI,IAAI,iCAAU,CAAd,C;UAAiB,MAAO,gBAAO,SAAP,C;QACxB,IAAI,QAAQ,
CAAR,IAAa,SAAS,KAA1B,C;UACI,IAAI,iBAAJ,C;YACI,MAAO,gBAAO,UAAU,OAAV,CAAP,C;;YAEP,MA
AO,gBAAO,OAAQ,WAAf,C;;UACR,K;;MAEX,IAAI,SAAS,CAAT,IAAc,QAAQ,KAA1B,C;QAAiC,MAAO,gB
AAO,SAAP,C;MACxC,MAAO,gBAAO,OAAP,C;MACP,OAAO,M;K;IAGX,8F;MAQyD,yB;QAAA,YAA0B,I;M
AAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K
;MAAO,yB;QAAA,YAAwC,I;MAGtN,Q;MAFhB,MAAO,gBAAO,MAAP,C;MACP,YAAY,C;MACZ,wBAAgB,
SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,IAAI,iCAAU,CAAd,C;UAAiB,MAAO,gBAAO,SAAP,C;QACxB,IA
AI,QAAQ,CAAR,IAAa,SAAS,KAA1B,C;UACI,IAAI,iBAAJ,C;YACI,MAAO,gBAAO,UAAU,OAAV,CAAP,C;;
YAEP,MAAO,gBAAO,OAAQ,WAAf,C;;UACR,K;;MAEX,IAAI,SAAS,CAAT,IAAc,QAAQ,KAA1B,C;QAAiC,
MAAO,gBAAO,SAAP,C;MACxC,MAAO,gBAAO,OAAP,C;MACP,OAAO,M;K;IAGX,8F;MAQ0D,yB;QAAA,Y
AA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,
YAA0B,K;MAAO,yB;QAAA,YAAyC,I;MAGxN,Q;MAFhB,MAAO,gBAAO,MAAP,C;MACP,YAAY,C;MACZ,
wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,IAAI,iCAAU,CAAd,C;UAAiB,MAAO,gBAAO,SAAP,C;
QACxB,IAAI,QAAQ,CAAR,IAAa,SAAS,KAA1B,C;UACI,IAAI,iBAAJ,C;YACI,MAAO,gBAAO,UAAU,OAAV,
CAAP,C;;YAEP,MAAO,gBAAO,OAAQ,WAAf,C;;UACR,K;;MAEX,IAAI,SAAS,CAAT,IAAc,QAAQ,KAA1B,C
;QAAiC,MAAO,gBAAO,SAAP,C;MACxC,MAAO,gBAAO,OAAP,C;MACP,OAAO,M;K;IAGX,8F;MAQ2D,yB;
QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,y
B;QAAA,YAA0B,K;MAAO,yB;QAAA,YAA0C,I;MAG1N,Q;MAFhB,MAAO,gBAAO,MAAP,C;MACP,YAAY,
C;MACZ,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,IAAI,iCAAU,CAAd,C;UAAiB,MAAO,gBAAO,
SAAP,C;QACxB,IAAI,QAAQ,CAAR,IAAa,SAAS,KAA1B,C;UACI,IAAI,iBAAJ,C;YACI,MAAO,gBAAO,UAA
U,OAAV,CAAP,C;;YAEP,MAAO,gBAAO,OAAQ,WAAf,C;;UACR,K;;MAEX,IAAI,SAAS,CAAT,IAAc,QAAQ,
KAA1B,C;QAAiC,MAAO,gBAAO,SAAP,C;MACxC,MAAO,gBAAO,OAAP,C;MACP,OAAO,M;K;IAGX,8F;M
AQwD,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,
E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAuC,I;MAGpN,Q;MAFhB,MAAO,gBAAO,MAAP,C;MAC
P,YAAY,C;MACZ,wBAAgB,SAAhB,gB;QAAgB,cAAhB,UAAgB,SAAhB,O;QACI,IAAI,iCAAU,CAAd,C;UAAi
B,MAAO,gBAAO,SAAP,C;QACxB,IAAI,QAAQ,CAAR,IAAa,SAAS,KAA1B,C;UACI,IAAI,iBAAJ,C;YACI,MA
AO,gBAAO,UAAU,oBAAV,CAAP,C;;YAEP,MAAO,gBAAO,OAAP,C;;UACR,K;;MAEX,IAAI,SAAS,CAAT,IA
Ac,QAAQ,KAA1B,C;QAAiC,MAAO,gBAAO,SAAP,C;MACxC,MAAO,gBAAO,OAAP,C;MACP,OAAO,M;K;I
AGX,0F;MAQyC,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QA
AA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAoC,I;MAClN,OAAO,kBAAO,sBAAP,EAAAwB
,SAAxB,EAAAmC,MAAAnC,EAA2C,OAA3C,EAAAoD,KAApD,EAA2D,SAA3D,EAAAsE,SAAtE,CAAAiF,W;K;IAG5
F,4F;MAQkC,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,
QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAuC,I;MAC9M,OAAO,oBAAO,sBAAP,EAAAwB,S
AAxB,EAAAmC,MAAAnC,EAA2C,OAA3C,EAAAoD,KAApD,EAA2D,SAA3D,EAAAsE,SAAtE,CAAAiF,W;K;IAG5F,
4F;MAQmC,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,
QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAwC,I;MAChN,OAAO,oBAAO,sBAAP,EAAAwB,S
AAxB,EAAAmC,MAAAnC,EAA2C,OAA3C,EAAAoD,KAApD,EAA2D,SAA3D,EAAAsE,SAAtE,CAAAiF,W;K;IAG5F,
4F;MAQiC,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,Q
AAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAsC,I;MAC5M,OAAO,oBAAO,sBAAP,EAAAwB,SAA
xB,EAAAmC,MAAAnC,EAA2C,OAA3C,EAAAoD,KAApD,EAA2D,SAA3D,EAAAsE,SAAtE,CAAAiF,W;K;IAG5F,4F;
MAQkC,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAA
a,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAuC,I;MAC9M,OAAO,oBAAO,sBAAP,EAAAwB,SAAxB
,EAAAmC,MAAAnC,EAA2C,OAA3C,EAAAoD,KAApD,EAA2D,SAA3D,EAAAsE,SAAtE,CAAAiF,W;K;IAG5F,4F;M
AQmC,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,
E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAwC,I;MAChN,OAAO,oBAAO,sBAAP,EAAAwB,SAAxB,E
AAmC,MAAAnC,EAA2C,OAA3C,EAAAoD,KAApD,EAA2D,SAA3D,EAAAsE,SAAtE,CAAAiF,W;K;IAG5F,4F;MAQ
oC,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;M
AAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAyC,I;MAClN,OAAO,oBAAO,sBAAP,EAAAwB,SAAxB,EAAAm

C,MAAnC,EAA2C,OAA3C,EAAoD,KAApD,EAA2D,SAA3D,EAAsE,SAAtE,CAAiF,W;K;IAG5F,4F;MAQqC,y
B;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI
,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAA0C,I;MACpN,OAAO,oBAAO,sBAAP,EAAwB,SAAxB,EAAmC,
MAAnC,EAA2C,OAA3C,EAAoD,KAApD,EAA2D,SAA3D,EAAsE,SAAtE,CAAiF,W;K;IAG5F,4F;MAQkC,yB;
QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,y
B;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAuC,I;MAC9M,OAAO,oBAAO,sBAAP,EAAwB,SAAxB,EAAmC,M
AAnC,EAA2C,OAA3C,EAAoD,KAApD,EAA2D,SAA3D,EAAsE,SAAtE,CAAiF,W;K;IAQxE,4C;MAAA,mB;Q
AAE,OAAK,qBAAL,eAAK,C;O;K;IAL3B,+B;MAII,IAlleO,qBAAQ,CAklef,C;QAAe,OAAO,W;MACtB,kCAAg
B,4BAAhB,C;K;IAQgB,8C;MAAA,mB;QAAE,OAAK,yBAAL,eAAK,C;O;K;IAL3B,iC;MAII,IAlleO,qBAAQ,C
Aklef,C;QAAe,OAAO,W;MACtB,kCAAgB,8BAAhB,C;K;IAQgB,8C;MAAA,mB;QAAE,OAAK,0BAAL,eAAK,
C;O;K;IAL3B,iC;MAII,IAlleO,qBAAQ,CAklef,C;QAAe,OAAO,W;MACtB,kCAAgB,8BAAhB,C;K;IAQgB,8C;M
AAA,mB;QAAE,OAAK,wBAAL,eAAK,C;O;K;IAL3B,iC;MAII,IAlleO,qBAAQ,CAklef,C;QAAe,OAAO,W;MA
CtB,kCAAgB,8BAAhB,C;K;IAQgB,8C;MAAA,mB;QAAE,OAAK,yBAAL,eAAK,C;O;K;IAL3B,iC;MAII,IAlleO
,qBAAQ,CAklef,C;QAAe,OAAO,W;MACtB,kCAAgB,8BAAhB,C;K;IAQgB,8C;MAAA,mB;QAAE,OAAK,0BA
AL,eAAK,C;O;K;IAL3B,iC;MAII,IAlleO,qBAAQ,CAklef,C;QAAe,OAAO,W;MACtB,kCAAgB,8BAAhB,C;K;IA
QgB,8C;MAAA,mB;QAAE,OAAK,2BAAL,eAAK,C;O;K;IAL3B,iC;MAII,IAlleO,qBAAQ,CAklef,C;QAAe,OAA
O,W;MACtB,kCAAgB,8BAAhB,C;K;IAQgB,8C;MAAA,mB;QAAE,OAAK,4BAAL,eAAK,C;O;K;IAL3B,iC;MA
II,IAlleO,qBAAQ,CAklef,C;QAAe,OAAO,W;MACtB,kCAAgB,8BAAhB,C;K;IAQgB,8C;MAAA,mB;QAAE,OA
AK,yBAAL,eAAK,C;O;K;IAL3B,iC;MAII,IAlleO,qBAAQ,CAklef,C;QAAe,OAAO,W;MACtB,kCAAgB,8BAAh
B,C;K;IAUgB,4C;MAAA,mB;QAAE,OAAK,qBAAL,eAAK,C;O;K;IAP3B,+B;MAMI,IA5peO,qBAAQ,CA4pef,C
;QAAe,OAAO,e;MACtB,kCAAgB,4BAAhB,C;K;IAUgB,8C;MAAA,mB;QAAE,OAAK,yBAAL,eAAK,C;O;K;IA
P3B,iC;MAMI,IA9peO,qBAAQ,CA8pef,C;QAAe,OAAO,e;MACtB,kCAAgB,8BAAhB,C;K;IAUgB,8C;MAAA,m
B;QAAE,OAAK,0BAAL,eAAK,C;O;K;IAP3B,iC;MAMI,IAhqeO,qBAAQ,CAgqef,C;QAAe,OAAO,e;MACtB,kC
AAgB,8BAAhB,C;K;IAUgB,8C;MAAA,mB;QAAE,OAAK,wBAAL,eAAK,C;O;K;IAP3B,iC;MAMI,IAlqeO,qBA
AQ,CAkqef,C;QAAe,OAAO,e;MACtB,kCAAgB,8BAAhB,C;K;IAUgB,8C;MAAA,mB;QAAE,OAAK,yBAAL,eA
AK,C;O;K;IAP3B,iC;MAMI,IApqeO,qBAAQ,CAoqef,C;QAAe,OAAO,e;MACtB,kCAAgB,8BAAhB,C;K;IAUgB,
8C;MAAA,mB;QAAE,OAAK,0BAAL,eAAK,C;O;K;IAP3B,iC;MAMI,IAtqeO,qBAAQ,CAsqef,C;QAAe,OAAO,e
;MACtB,kCAAgB,8BAAhB,C;K;IAUgB,8C;MAAA,mB;QAAE,OAAK,2BAAL,eAAK,C;O;K;IAP3B,iC;MAMI,I
AxqeO,qBAAQ,CAwqef,C;QAAe,OAAO,e;MACtB,kCAAgB,8BAAhB,C;K;IAUgB,8C;MAAA,mB;QAAE,OAA
K,4BAAL,eAAK,C;O;K;IAP3B,iC;MAMI,IA1qeO,qBAAQ,CA0qef,C;QAAe,OAAO,e;MACtB,kCAAgB,8BAAh
B,C;K;IAUgB,8C;MAAA,mB;QAAE,OAAK,yBAAL,eAAK,C;O;K;IAP3B,iC;MAMI,IA5qeO,qBAAQ,CA4qef,C;
QAAe,OAAO,e;MACtB,kCAAgB,8BAAhB,C;K;IAGJ,4B;MAOoB,Q;MAFhB,UAAkB,G;MAClB,YAAiB,C;MA
CjB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,O;QACP,qB;;MAEJ,OAAW,UAAS,CAAb,G
AAgB,wCAAO,IAAvB,GAAgC,MAAM,K;K;IAGjD,8B;MAOoB,Q;MAFhB,UAAkB,G;MAClB,YAAiB,C;MACj
B,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,O;QACP,qB;;MAEJ,OAAW,UAAS,CAAb,GAA
gB,wCAAO,IAAvB,GAAgC,MAAM,K;K;IAGjD,8B;MAOoB,Q;MAFhB,UAAkB,G;MAClB,YAAiB,C;MACjB,
wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,O;QACP,qB;;MAEJ,OAAW,UAAS,CAAb,GAAg
B,wCAAO,IAAvB,GAAgC,MAAM,K;K;IAGjD,8B;MAOoB,Q;MAFhB,UAAkB,G;MAClB,YAAiB,C;MACjB,w
BAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,O;QACP,qB;;MAEJ,OAAW,UAAS,CAAb,GAAgB,
wCAAO,IAAvB,GAAgC,MAAM,K;K;IAGjD,8B;MAOoB,Q;MAFhB,UAAkB,G;MAClB,YAAiB,C;MACjB,wB
AAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,O;QACP,qB;;MAEJ,OAAW,UAAS,CAAb,GAAgB,w
CAAO,IAAvB,GAAgC,MAAM,K;K;IAGjD,8B;MAOoB,Q;MAFhB,UAAkB,G;MAClB,YAAiB,C;MACjB,wBA
AgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,O;QACP,qB;;MAEJ,OAAW,UAAS,CAAb,GAAgB,wC
AAO,IAAvB,GAAgC,MAAM,K;K;IAGjD,8B;MAMoB,Q;MAFhB,UAAkB,G;MAClB,YAAiB,C;MACjB,wBAA
gB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,O;QACP,qB;;MAEJ,OAAW,UAAS,CAAb,GAAgB,wCA
AO,IAAvB,GAAgC,MAAM,K;K;IAGjD,8B;MAMoB,Q;MAFhB,UAAkB,G;MAClB,YAAiB,C;MACjB,wBAAgB
,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,O;QACP,qB;;MAEJ,OAAW,UAAS,CAAb,GAAgB,wCAA
O,IAAvB,GAAgC,MAAM,K;K;IAGjD,8B;MAMoB,Q;MAFhB,UAAkB,G;MAClB,YAAiB,C;MACjB,wBAAgB,

SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,O;QACP,qB;;MAEJ,OAAW,UAAS,CAAb,GAAgB,wCAAO
,IAAvB,GAAgC,MAAM,K;K;IAGjD,8B;MAMoB,Q;MAFhB,UAAkB,G;MAClB,YAAiB,C;MACjB,wBAAgB,S
AAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,O;QACP,qB;;MAEJ,OAAW,UAAS,CAAb,GAAgB,wCAAO,I
AAvB,GAAgC,MAAM,K;K;IAGjD,8B;MAMoB,Q;MAFhB,UAAkB,G;MAClB,YAAiB,C;MACjB,wBAAgB,SA
AhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,O;QACP,qB;;MAEJ,OAAW,UAAS,CAAb,GAAgB,wCAAO,IA
AvB,GAAgC,MAAM,K;K;IAGjD,+B;MAMoB,Q;MAFhB,UAAkB,G;MAClB,YAAiB,C;MACjB,wBAAgB,SAA
hB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,O;QACP,qB;;MAEJ,OAAW,UAAS,CAAb,GAAgB,wCAAO,IAA
vB,GAAgC,MAAM,K;K;IAGjD,wB;MAMoB,Q;MADhB,UAAe,C;MACf,wBAAgB,SAAhB,gB;QAAgB,cAAA,S
AAhB,M;QACI,YAAO,O;;MAEX,OAAO,G;K;IAGX,0B;MAMoB,Q;MADhB,UAAe,C;MACf,wBAAgB,SAAhB,
gB;QAAgB,cAAA,SAAhB,M;QACI,YAAO,O;;MAEX,OAAO,G;K;IAGX,0B;MAMoB,Q;MADhB,UAAe,C;MA
Cf,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,YAAO,OAAP,I;;MAEJ,OAAO,G;K;IAGX,0B;MAMo
B,Q;MADhB,Y;MACA,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,cAAO,OAAP,C;;MAEJ,OAAO,G
;K;IAGX,0B;MAMoB,Q;MADhB,UAAiB,G;MACjB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OA
AO,O;;MAEX,OAAO,G;K;IAGX,0B;MAMoB,Q;MADhB,UAAkB,G;MAClB,wBAAgB,SAAhB,gB;QAAgB,cA
AA,SAAhB,M;QACI,OAAO,O;;MAEX,OAAO,G;K;IAGX,0B;MAKoB,Q;MADhB,UAAe,C;MACf,wBAAgB,SA
AhB,gB;QAAgB,cAAA,SAAhB,M;QACI,YAAO,O;;MAEX,OAAO,G;K;IAGX,0B;MAKoB,Q;MADhB,UAAe,C;
MACf,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,YAAO,O;;MAEX,OAAO,G;K;IAGX,0B;MAKoB,
Q;MADhB,UAAe,C;MACf,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,YAAO,OAAP,I;;MAEJ,OAA
O,G;K;IAGX,0B;MAKoB,Q;MADhB,Y;MACA,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,cAAO,O
AAP,C;;MAEJ,OAAO,G;K;IAGX,0B;MAKoB,Q;MADhB,UAAiB,G;MACjB,wBAAgB,SAAhB,gB;QAAgB,cAA
A,SAAhB,M;QACI,OAAO,O;;MAEX,OAAO,G;K;IAGX,2B;MAKoB,Q;MADhB,UAAkB,G;MAClB,wBAAgB,S
AAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,O;;MAEX,OAAO,G;K;Ia5uuBX,oD;MAQuF,wC;K;IARvF,8C
ASI,Y;MAAuC,8B;K;IAT3C,gF;4FOOA,qB;MAOI,OAAO,sBAAI,CAAJ,C;K;4FAGX,qB;MAOI,OAAO,sBAAI,
CAAJ,C;K;4FAGX,qB;MAOI,OAAO,sBAAI,CAAJ,C;K;4FAGX,qB;MAOI,OAAO,sBAAI,CAAJ,C;K;4FAGX,q
B;MAOI,OAAO,sBAAI,CAAJ,C;K;IAGX,wC;MAII,IAAI,oCAAJ,C;QACI,OAAO,yBAAS,OAAT,C;MACX,OA
AO,qBAAQ,OAAR,KAAoB,C;K;IAWG,yC;MAAA,qB;QAAE,MAAM,8BAA0B,iDAA8C,aAA9C,MAA1B,C;O;
K;IAR1C,qC;MAMI,IAAI,8BAAJ,C;QACI,OAAO,sBAAI,KAAJ,C;MACX,OAAO,6BAAgB,KAAhB,EAAAuB,uB
AAvB,C;K;0FAGX,4B;MAOI,OAAO,sBAAI,KAAJ,C;K;IAGX,2D;MAcqB,Q;MARjB,IAAI,8BAAJ,C;QACI,OA
AsB,KA4Lf,IAAS,CAAT,IA5Le,KA4LD,IAAS,iBA5LvB,SA4LuB,CAA3B,GA5LI,SA4LkC,aA5LnB,KA4LmB,C
AAtC,GA5L0B,YA4L4B,CA5LnC,KA4LmC,C;OA3L7D,IAAI,QAAQ,CAAZ,C;QACI,OAAO,aAAa,KAAb,C;M
ACX,eAAe,oB;MACf,YAAY,C;MACZ,OAAO,QAAS,UAAhB,C;QACI,cAAc,QAAS,O;QACvB,IAAI,WAAS,Y
AAT,EAAS,oBAAT,OAAJ,C;UACI,OAAO,O;;MAEf,OAAO,aAAa,KAAb,C;K;sGAGX,yB;MAAA,8D;MAAA,i
D;QAOI,OAAW,SAAS,CAAT,IAAc,SAAS,wBAA3B,GAAAsC,sBAAI,KAAJ,CAAtC,GAAsD,aAAa,KAAb,C;O;K
APjE,C;IAUA,6C;MAcqB,Q;MARjB,IAAI,8BAAJ,C;QACI,OAAY,YAAL,SAAK,EAAU,KAAV,C;MAChB,IAA
I,QAAQ,CAAZ,C;QACI,OAAO,I;MACX,eAAe,oB;MACf,YAAY,C;MACZ,OAAO,QAAS,UAAhB,C;QACI,cAA
c,QAAS,O;QACvB,IAAI,WAAS,YAAT,EAAS,oBAAT,OAAJ,C;UACI,OAAO,O;;MAEf,OAAO,I;K;sGAGX,yB;
MAAA,sD;MAAA,mC;QAOI,OAAY,UAAL,SAAK,EAAU,KAAV,C;O;KAPhB,C;gFAUA,gC;MAOW,sB;;QAu
HS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAvHH,SAuHO,CAAU,OAAV,CAAJ,C;YAAw
B,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MAxHP,yB;K;wFAGJ,gC;MA2VoB,Q;MADhB,WAAe,I;MACC,2B;
MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IArVc,SAqVV,CAAU,OAAV,CAAJ,C;UACI,OAAO,O;;MAtVf,
OAyVO,I;K;wFAtVX,gC;MAOW,qB;;QAwVP,eAAoB,+BAAa,cAAb,C;QACpB,OAAO,QAAS,cAAhB,C;UACI,
cAAc,QAAS,W;UACvB,IA3Vc,SA2VV,CAAU,OAAV,CAAJ,C;YAAwB,oBAAO,O;YAAP,sB;;QAE5B,oBAAO,
I;;;MA7VP,wB;K;IAGJ,6B;MAMQ,kBADE,SACF,Q;QAAW,OAAY,SAAL,SAAK,C;;QAEnB,eAAe,oB;QACf,I
AAI,CAAC,QAAS,UAAd,C;UACI,MAAM,2BAAuB,sBAAvB,C;QACV,OAAO,QAAS,O;;K;IAK5B,6B;MAKI,I
AAI,mBAAJ,C;QACI,MAAM,2BAAuB,gBAAvB,C;MACV,OAAO,sBAAK,CAAL,C;K;mFAGX,yB;MAAA,iE;
MAAA,uC;QAKoB,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,UAAU,OAAV,CAAJ,C;Y
AAwB,OAAO,O;;QACrD,MAAM,gCAAuB,wDAAvB,C;O;KANV,C;oGASA,yB;MAAA,iE;MAAA,uC;QASW,
Q;QAAA,+B;;UAYS,U;UAAA,6B;UAAhB,OAAgB,gBAAhB,C;YAAgB,2B;YACZ,aAbwB,SAaX,CAAU,OAAV

,C;YACb,IAAI,cAAJ,C;cACI,8BAAO,M;cAAP,gC;;UAGR,8BAAO,I;;;QAlBA,kC;QAAA,iB;UAAmC,MAAM,g
CAAuB,mEAAvB,C;SAAhD,OAAO,I;O;KATX,C;gHAYA,gC;MASoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C
;QAAgB,yB;QACZ,aAAa,UAAU,OAAV,C;QACb,IAAI,cAAJ,C;UACI,OAAO,M;;MAGf,OAAO,I;K;IAGX,mC;
MAKQ,kBADE,SACF,Q;QACI,IAAI,mBAAJ,C;UACI,OAAO,I;;UAEP,OAAO,sBAAK,CAAL,C;;QAGX,eAAe,o
B;QACf,IAAI,CAAC,QAAS,UAAd,C;UACI,OAAO,I;QACX,OAAO,QAAS,O;;K;IAK5B,mC;MAII,OAAW,mBA
AJ,GAAe,IAAf,GAAyB,sBAAK,CAAL,C;K;+FAGpC,gC;MAIoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QA
AgB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,O;;MACrD,OAAO,I;K;0FAGX,yB;MAAA,8D;M
AAA,iD;QAKI,OAAW,SAAS,CAAT,IAAc,SAAS,wBAA3B,GAAsC,sBAAI,KAAJ,CAAtC,GAAsD,aAAa,KAAb,
C;O;KALjE,C;IAQA,uC;MAMI,OAAW,SAAS,CAAT,IAAc,SAAS,2BAA3B,GAAsC,sBAAI,KAAJ,CAAtC,GAA
sD,I;K;IAGjE,uC;MAMiB,Q;MAFb,IAAI,8BAAJ,C;QAAkB,OAAO,SAAK,eAAQ,OAAR,C;MAC9B,YAAY,C;M
ACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,mBAAmB,KAAnB,C;QACA,IAAI,gBAAW,IAAX,CAAJ,C;UA
CI,OAAO,K;QACX,qB;;MAEJ,OAAO,E;K;IAGX,uC;MAKI,OAAO,wBAAQ,OAAR,C;K;gGAGX,yB;MAAA,w
E;MAAA,uC;QAKiB,Q;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,mBAAmB,KAAnB,
C;UACA,IAAI,UAAU,IAAV,CAAJ,C;YACI,OAAO,K;UACX,qB;;QAEJ,OAAO,E;O;KAXX,C;gGAcA,gC;MAK
iB,Q;MADb,YAAY,C;MACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,IAAI,UAAU,IAAV,CAAJ,C;UACI,OA
AO,K;QACX,qB;;MAEJ,OAAO,E;K;8FAGX,yB;MAAA,wE;MAAA,uC;QAMiB,Q;QAFb,gBAAgB,E;QAChB,Y
AAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,mBAAmB,KAAnB,C;UACA,IAAI,UAAU,IAAV,CA
AJ,C;YACI,YAAY,K;UAChB,qB;;QAEJ,OAAO,S;O;KAZX,C;8FAeA,gC;MAII,eAAe,SAAK,sBAAa,cAAb,C;M
ACpB,OAAO,QAAS,cAAhB,C;QACI,IAAI,UAAU,QAAS,WAAnB,CAAJ,C;UACI,OAAO,QAAS,Y;;MAGxB,O
AAO,E;K;IAGX,4B;MASQ,kBADE,SACF,Q;QAAW,OAAY,QAAL,SAAK,C;;QAEnB,eAAe,oB;QACf,IAAI,CA
AC,QAAS,UAAd,C;UACI,MAAM,2BAAuB,sBAAvB,C;QACV,WAAW,QAAS,O;QACpB,OAAO,QAAS,UAAh
B,C;UACI,OAAO,QAAS,O;QACpB,OAAO,I;;K;IAKnB,4B;MAQI,IAAI,mBAAJ,C;QACI,MAAM,2BAAuB,gBA
AvB,C;MACV,OAAO,sBAAK,2BAAL,C;K;iFAGX,yB;MAAA,iE;MAAA,gB;MAAA,8B;MAAA,uC;QAUoB,U
AQT,M;QAVP,WAAe,I;QACf,YAAY,K;QACI,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,UAAU,O
AAV,CAAJ,C;YACI,OAAO,O;YACP,QAAQ,I;;QAGhB,IAAI,CAAC,KAAL,C;UAAY,MAAM,gCAAuB,wDAA
vB,C;QAElB,OAAO,2E;O;KAlBX,C;iFAqBA,yB;MAAA,iE;MAAA,uC;QAQI,eAAe,SAAK,sBAAa,cAAb,C;QA
CpB,OAAO,QAAS,cAAhB,C;UACI,cAAc,QAAS,W;UACvB,IAAI,UAAU,OAAV,CAAJ,C;YAAAwB,OAAO,O;;Q
AEnC,MAAM,gCAAuB,kDAAvB,C;O;KAbV,C;IAgBA,2C;MAOiB,Q;MAHb,IAAI,8BAAJ,C;QAAkB,OAAO,S
AAK,mBAAY,OAAZ,C;MAC9B,gBAAgB,E;MAChB,YAAY,C;MACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QA
CT,mBAAmB,KAAnB,C;QACA,IAAI,gBAAW,IAAX,CAAJ,C;UACI,YAAY,K;QAChB,qB;;MAEJ,OAAO,S;K;I
AGX,2C;MAKI,OAAO,4BAAY,OAAZ,C;K;IAGX,kC;MAOQ,kBADE,SACF,Q;QAAW,OAAW,mBAAJ,GAAe,I
AAf,GAAyB,sBAAK,iBAAO,CAAP,IAAL,C;;QAEvC,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UACI,OAA
O,I;QACX,WAAW,QAAS,O;QACpB,OAAO,QAAS,UAAhB,C;UACI,OAAO,QAAS,O;QACpB,OAAO,I;;K;IAK
nB,kC;MAMI,OAAW,mBAAJ,GAAe,IAAf,GAAyB,sBAAK,iBAAO,CAAP,IAAL,C;K;6FAGpC,gC;MAOoB,Q;
MADhB,WAAe,I;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,UAAU,OAAV,CAAJ,C;UACI,
OAAO,O;;MAGf,OAAO,I;K;6FAGX,gC;MAMI,eAAe,SAAK,sBAAa,cAAb,C;MACpB,OAAO,QAAS,cAAhB,C;
QACI,cAAc,QAAS,W;QACvB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,O;;MAEnC,OAAO,I;K;qFAGX,yB
;MAAA,mC;MAAA,gD;MAAA,4B;QAQI,OAAO,kBAAO,cAAP,C;O;KARX,C;IAWA,sC;MAOI,IAAI,mBAAJ,C
;QACI,MAAM,2BAAuB,sBAAvB,C;MACV,OAAO,qBAAU,MAAO,iBAAQ,cAAR,CAAjB,C;K;iGAGX,yB;MA
AA,mC;MAAA,4D;MAAA,4B;QAOI,OAAO,wBAAa,cAAb,C;O;KAPX,C;IAUA,4C;MAMI,IAAI,mBAAJ,C;QA
CI,OAAO,I;MACX,OAAO,qBAAU,MAAO,iBAAQ,cAAR,CAAjB,C;K;IAGX,8B;MAKQ,kBADE,SACF,Q;QAA
W,OAAY,UAAL,SAAK,C;;QAEnB,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UACI,MAAM,2BAAuB,sBAA
vB,C;QACV,aAAa,QAAS,O;QACtB,IAAI,QAAS,UAAb,C;UACI,MAAM,gCAAyB,uCAAzB,C;QACV,OAAO,M
;;K;IAKnB,8B;MAIiB,IAAAN,I;MAAA,QAAM,cAAN,C;aACH,C;UAAK,MAAM,2BAAuB,gBAAvB,C;aACX,C;
UAAK,6BAAK,CAAL,C;UAAL,K;gBACQ,MAAM,gCAAyB,iCAAzB,C;;MAHlB,W;K;qFAOJ,yB;MAAA,kF;M
AAA,iE;MAAA,gB;MAAA,8B;MAAA,uC;QAMoB,UAST,M;QAXP,aAAAiB,I;QACjB,YAAY,K;QACI,2B;QAAh
B,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,UAAU,OAAV,CAAJ,C;YACI,IAAI,KAAJ,C;cAAAW,MAAM,8BA
AyB,qDAAzB,C;YACjB,SAAS,O;YACT,QAAAQ,I;;QAGhB,IAAI,CAAC,KAAL,C;UAAAY,MAAM,gCAAuB,wD

AAvB,C;QAElB,OAAO,6E;O;KAfX,C;IAkBA,oC;MAKQ,kBADE,SACF,Q;QAAW,OAAW,mBAAQ,CAAZ,GA
Ae,sBAAK,CAAL,CAAf,GAA4B,I;;QAE1C,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UACI,OAAO,I;QACX
,aAAa,QAAS,O;QACtB,IAAI,QAAS,UAAb,C;UACI,OAAO,I;QACX,OAAO,M;;K;IAKnB,oC;MAII,OAAW,mB
AAQ,CAAZ,GAAe,sBAAK,CAAL,CAAf,GAA4B,I;K;iGAGvC,gC;MAMoB,Q;MAFhB,aAAiB,I;MACjB,YAAY,
K;MACI,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,UAAU,OAAV,CAAJ,C;UACI,IAAI,KAAJ,C;Y
AAW,OAAO,I;UAClB,SAAS,O;UACT,QAAQ,I;;MAGhB,IAAI,CAAC,KAAL,C;QAAY,OAAO,I;MACnB,OAA
O,M;K;IAGX,8B;MAoBsC,UAGT,MAHS,EAarB,M;MN7pBb,IAAI,EMooBI,KAAK,CNpoBT,CAAJ,C;QACI,cM
moBc,sD;QNloBd,MAAM,gCAAyB,OAAQ,WAAjC,C;OMmoBV,IAAI,MAAK,CAAT,C;QAAY,OAAO,mB;MA
CnB,Q;MACA,IAAI,oCAAJ,C;QACI,iBAAiB,iBAAO,CAAP,I;QACjB,IAAI,cAAc,CAAlB,C;UACI,OAAO,W;Q
ACX,IAAI,eAAc,CAAlB,C;UACI,OAAO,OAAO,kBAAP,C;QACX,OAAO,iBAAa,UAAb,C;QACP,IAAI,8BAAJ,
C;UACI,IAAI,sCAAJ,C;YAC0B,qB;YAAtB,iBAAc,CAAd,wB;cACI,IAAK,WAAI,sBAAK,KAAL,CAAJ,C;;YAE
I,wCAAa,CAAb,C;YAAb,OAAa,gBAAb,C;cAAa,wB;cACT,IAAK,WAAI,IAAJ,C;;;UAEb,OAAO,I;;QAIX,OAA
O,gB;;MAEX,YAAY,C;MACC,6B;MAAb,OAAa,gBAAb,C;QAAa,0B;QACT,IAAI,SAAS,CAAb,C;UAAgB,IAA
K,WAAI,MAAJ,C;;UAAe,qB;;MAExC,OAAY,qBAAL,IAAK,C;K;IAGhB,kC;MNnqBI,IAAI,EM2qBI,KAAK,C
N3qBT,CAAJ,C;QACI,cM0qBc,sD;QNzqBd,MAAM,gCAAyB,OAAQ,WAAjC,C;OM0qBV,OAAO,kBAAgB,gB
AAV,iBAAO,CAAP,IAAU,EAAc,CAAd,CAAhB,C;K;kGAGX,yB;MAAA,4C;MAAA,qD;MAAA,uC;QAMI,IAA
I,CAAC,mBAAL,C;UACI,eAAe,+BAAa,cAAb,C;UACf,OAAO,QAAS,cAAhB,C;YACI,IAAI,CAAC,UAAU,QA
AS,WAAnB,CAAL,C;cACI,OAAO,gBAAK,QAAS,YAAT,GAAuB,CAAvB,IAAL,C;;SAInB,OAAO,W;O;KAdX,
C;0FAiBA,yB;MAAA,+D;MAAA,uC;QAQiB,Q;QAFb,eAAe,K;QACf,WAAW,gB;QACE,2B;QAAb,OAAa,cAAb
,C;UAAa,sB;UACT,IAAI,QAAJ,C;YACI,IAAK,WAAI,IAAJ,C;eACJ,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACD
,IAAK,WAAI,IAAJ,C;YACL,WAAW,I;;QAEnB,OAAO,I;O;KAfX,C;oFAkBA,yB;MAAA,+D;MAAA,uC;QAM
W,kBAAS,gB;QA2FA,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IA3FU,SA2FN,CAAU,OAA
V,CAAJ,C;YAAwB,WAAY,WAAI,OAAJ,C;;QA3F1D,OA4FO,W;O;KAlGX,C;kGASA,yB;MAAA,+D;MA6jCA,
wE;MA7jCA,uC;QAQW,kBAAgB,gB;QA4jCV,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;
UAhjCT,IAZmC,SAY/B,CAgjCkB,oBAAmB,cAAnB,EAAmB,sBAAnB,UAhjClB,EAgjC+C,IAhjC/C,CAAJ,C;Y
AA2C,sBAgjCQ,IAhjCR,C;;QAZ/C,OAcO,W;O;KAtBX,C;sGAWA,yB;MAkjCA,wE;MAljCA,oD;QAyjCiB,gB;Q
ADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UAhjCT,IAAI,UAgjCkB,oBAAmB,cAAnB,EAAmB,s
BAAnB,UAhjClB,EAgjC+C,IAhjC/C,CAAJ,C;YAA2C,sBAgjCQ,IAhjCR,C;;QAE/C,OAAO,W;O;KAXX,C;wGA
cA,yB;MAAA,+D;MAAA,sC;QAMW,kBAAmB,gB;QASV,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;
UAAM,IAAI,YAAJ,C;YAAkB,WAAY,WAAI,OAAJ,C;;QATpD,OAUO,W;O;KAhBX,C;4GASA,4C;MAMoB,Q;
MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,YAAJ,C;UAAkB,WAAY,WAAI,OAAJ,C;;MA
CpD,OAAO,W;K;0FAGX,yB;MAAA,+D;MAAA,uC;QAMW,kBAAY,gB;QA4BH,Q;QAAA,2B;QAAhB,OAAgB
,cAAhB,C;UAAgB,yB;UAAM,IAAI,CA5BS,SA4BR,CAAU,OAAV,CAAL,C;YAAyB,WAAY,WAAI,OAAJ,C;;Q
A5B3D,OA6BO,W;O;KAnCX,C;IASA,oC;MAMI,OAAO,6BAAgB,gBAAhB,C;K;IAGX,mD;MAMoB,Q;MAAA,
2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,eAAJ,C;UAAqB,WAAY,WAAI,OAAJ,C;;MACvD,OA
AO,W;K;8FAGX,6C;MAMoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,CAAC,UAAU
,OAAV,CAAL,C;UAAyB,WAAY,WAAI,OAAJ,C;;MAC3D,OAAO,W;K;wFAGX,6C;MAMoB,Q;MAAA,2B;MA
AhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,WAAY,WAAI,OAAJ,C;;MA
C1D,OAAO,W;K;IAGX,sC;MAII,IAAI,OAAAQ,UAAZ,C;QAAAuB,Od3wBe,W;Oc4wBtC,OAA6D,SAAtD,SAAK,i
BAAQ,OAAQ,MAAhB,EAAuB,OAAQ,aAAR,GAAuB,CAAvB,IAAvB,CAAiD,C;K;IAGjE,sC;MAOkB,Q;MAH
d,WAAmB,wBAAR,OAAQ,EAAwB,EAAxB,C;MACnB,IAAI,SAAQ,CAAZ,C;QAAe,OAAO,W;MACtB,WAA
W,iBAAa,IAAb,C;MACG,yB;MAAd,OAAc,cAAd,C;QAAc,uB;QACV,IAAK,WAAI,sBAAI,KAAJ,CAAJ,C;;MA
ET,OAAO,I;K;IAGX,8B;MAgBiB,Q;MN51Bb,IAAI,EMo1BI,KAAK,CNp1BT,CAAJ,C;QACI,cMm1Bc,sD;QNl1
Bd,MAAM,gCAAyB,OAAQ,WAAjC,C;OMm1BV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,IAAI,oCA
AJ,C;QACI,IAAI,KAAK,cAAT,C;UAAe,OAAO,mB;QACtB,IAAI,MAAK,CAAT,C;UAAY,OAAO,OAAO,mBA
AP,C;OAEvB,YAAY,C;MACZ,WAAW,iBAAa,CAAb,C;MACE,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,IAA
K,WAAI,IAAJ,C;QACL,IAAI,mCAAW,CAAf,C;UACI,K;;MAER,OAAY,qBAAL,IAAK,C;K;IAGhB,kC;MAeqC
,IAGhB,I;MNt3BjB,IAAI,EM42BI,KAAK,CN52BT,CAAJ,C;QACI,cM22Bc,sD;QN12Bd,MAAM,gCAAyB,OAA

Q,WAAjC,C;OM22BV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,WAAW,c;MACX,IAAI,KAAK,IAAT,
C;QAAe,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,kBAAP,C;MACnB,WAAW,iBAAa,C
AAb,C;MACX,IAAI,sCAAJ,C;QACI,iBAAc,OAAO,CAAP,IAAd,UAA6B,IAA7B,U;UACI,IAAK,WAAI,sBAAK
,KAAL,CAAJ,C;;QAEI,sCAAa,OAAO,CAAP,IAAb,C;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,IAAK,WAAI,IAA
J,C;;;MAEb,OAAO,I;K;kGAGX,yB;MAAA,qD;MAAA,gE;MAAA,gD;MAAA,uC;QAMI,IAAI,mBAAJ,C;UACI,
OAAO,W;QACX,eAAe,+BAAa,cAAb,C;QACf,OAAO,QAAS,cAAhB,C;UACI,IAAI,CAAC,UAAU,QAAS,WAA
nB,CAAL,C;YACI,QAAS,O;YACT,mBAAmB,iBAAO,QAAS,YAAhB,I;YACnB,IAAI,iBAAgB,CAApB,C;cAAu
B,OAAO,W;YACI,kBAA3B,eAAa,YAAb,C;YACH,OAAgB,kBAAhB,C;cACI,sBAAa,eAAb,C;YAFR,OH11BD,
W;;QGg2BP,OAAO,iB;O;KApBX,C;0FAuBA,yB;MAAA,+D;MAAA,uC;QAOiB,Q;QADb,WAAW,gB;QACE,2B
;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACI,K;UACJ,IAAK,WAAI,IAAJ,
C;;QAET,OAAO,I;O;KAZX,C;IAoBA,+B;MAII,IAAI,wCAAsB,kBAAQ,CAAlC,C;QAAqC,OAAO,mB;MAC5C,
WAAW,0B;MACN,WAAL,IAAK,C;MACL,OAAO,I;K;IAGX,uC;MAOI,aAAU,2BAAV,OAA2B,CAA3B,M;QA
CI,QAAQ,MAAO,iBAAQ,IAAI,CAAJ,IAAR,C;QACf,sBAAK,CAAL,EAAU,SAAK,aAAI,CAAJ,EAAO,sBAAK,
CAAL,CAAP,CAAf,C;;K;oFAIR,yB;MAAA,oD;MJn4BA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B
;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DgB,CA5DhB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B
,C;W;S;OA4DI,C;MI43Bf,sC;QAMI,IAAI,iBAAO,CAAX,C;UAAc,oBJl4Bd,eAAW,iBIk4BsB,QJl4BtB,CAAX,CI
k4Bc,C;U;KANlB,C;wGASA,yB;MAAA,oD;MJz3BA,sC;MAAA,oC;MAAA,iCAOe,yB;QAxFf,8D;eAwFe,4B;U
AAA,uB;YAAU,eAAsB,gB;YAAtB,OA/Ed,cAAc,SA+EgB,CA/EhB,CAAd,EAA2B,SA+EM,CA/EN,CAA3B,C;
W;S;OA+EI,C;MIk3Bf,sC;QAMI,IAAI,iBAAO,CAAX,C;UAAc,oBJx3Bd,eAAW,2BIw3BgC,QJx3BhC,CAAX,CI
w3Bc,C;U;KANlB,C;IASA,sC;MAMI,sBAAS,cAAT,C;K;IAGJ,6B;MASgB,Q;MAHZ,IAAI,oCAAJ,C;QACI,IAA
I,kBAAQ,CAAZ,C;UAAe,OAAY,SAAL,SAAK,C;QAEwB,kBAA3C,sBC5+BsD,sBD4+BtD,uB;QAAmD,mB;QA
A3D,OAAoE,OHl7BjE,WGk7BiE,C;OAEjD,kBAAhB,0B;MAAwB,oB;MAA/B,OHp7BO,W;K;wFGu7BX,yB;M
AAA,wD;MJ56BA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB
,OA5Dd,cAAc,SA4DgB,CA5DhB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MIq6Bf,sC;QAQI,O
AAO,sBJ76BP,eAAW,iBI66BiB,QJ76BjB,CAAX,CI66BO,C;O;KARX,C;4GAWA,yB;MAAA,wD;MJp6BA,sC;M
AAA,oC;MAAA,iCAOe,yB;QAxFf,8D;eAwFe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA/Ed,cAAc,SA+EgB,C
A/EhB,CAAd,EAA2B,SA+EM,CA/EN,CAA3B,C;W;S;OA+EI,C;MI65Bf,sC;QAMI,OAAO,sBJn6BP,eAAW,2BI
m6B2B,QJn6B3B,CAAX,CIm6BO,C;O;KANX,C;IASA,uC;MAMI,OAAO,wBAAW,cAAX,C;K;IAGX,6C;MASe,
Q;MAHX,IAAI,oCAAJ,C;QACG,IAAI,kBAAQ,CAAZ,C;UAAe,OAAY,SAAL,SAAK,C;QAEe,kBAAlC,sBCvhC
uD,sBDuhCvD,uB;QAA0C,iC;QAAlD,OAAyE,OH79BrE,WG69BqE,C;OAErD,kBAAhB,0B;MAAwB,mC;MAA/
B,OH/9BO,W;K;IGk+BX,qC;MAMoB,UACL,M;MAHX,aAAa,oBAAa,cAAb,C;MACb,YAAY,C;MACI,2B;MAA
hB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,cAAP,EAAO,sBAAP,YAAkB,O;;MACtB,OAAO,M;K;IAGX,k
C;MAMoB,UACL,M;MAHX,aAAa,cAAU,cAAV,C;MACb,YAAY,C;MACI,2B;MAAhB,OAAgB,cAAhB,C;QAA
gB,yB;QACZ,OAAO,cAAP,EAAO,sBAAP,YAAkB,O;;MACtB,OAAO,M;K;IAGX,kC;MAMoB,UACL,M;MAH
X,aAAa,iBAAU,cAAV,C;MACb,YAAY,C;MACI,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,oC;QACZ,OAAO,cAA
P,EAAO,sBAAP,YAAkB,O;;MACtB,OAAO,M;K;IAGX,oC;MAMoB,UACL,M;MAHX,aAAa,iBAAY,cAAZ,C;
MACb,YAAY,C;MACI,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,cAAP,EAAO,sBAAP,YAAkB,
O;;MACtB,OAAO,M;K;IAGX,mC;MAMoB,UACL,M;MAHX,aAAa,iBAAW,cAAX,C;MACb,YAAY,C;MACI,2
B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,cAAP,EAAO,sBAAP,YAAkB,O;;MACtB,OAAO,M;K;I
AGX,iC;MAMoB,UACL,M;MAHX,aAAa,eAAS,cAAT,C;MACb,YAAY,C;MACI,2B;MAAhB,OAAgB,cAAhB,C
;QAAgB,yB;QACZ,OAAO,cAAP,EAAO,sBAAP,YAAkB,O;;MACtB,OAAO,M;K;IAGX,kC;MAMoB,UACL,M;
MAHX,aAAa,iBAAU,cAAV,C;MACb,YAAY,C;MACI,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAA
O,cAAP,EAAO,sBAAP,YAAkB,O;;MACtB,OAAO,M;K;IAGX,mC;MAMoB,UACL,M;MAHX,aAAa,eAAW,cA
AX,C;MACb,YAAY,C;MACI,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,cAAP,EAAO,sBAAP,Y
AAkB,O;;MACtB,OAAO,M;K;0FAGX,yB;MAAA,kF;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,uC;QAWI,eAA
wD,cAAzC,YAAY,mCAAwB,EAAxB,CAAZ,CAAyC,EAAc,EAAd,C;QACjD,kBAAY,mBAAoB,QAApB,C;QA
yEH,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA1E8C,SA0E/B,CAAU,OAAV,C;UbpkBnB,
wBAAI,IAAK,MAAT,EAAgB,IAAK,OAArB,C;;Qa0fA,OA4EO,W;O;KAxFX,C;+FAeA,yB;MAAA,kF;MAAA,0

D;MAAA,yD;MAAA,uE;MAAA,yC;QAWI,eAAwD,cAAzC,YAAY,mCAAwB,EAAxB,CAAZ,CAAyC,EAAc,EA
Ad,C;QACjD,kBAAc,mBAAoB,QAApB,C;QA2BL,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,
WAAY,aA5BoC,WA4BhC,CAAY,OAAZ,CAAJ,EAA0B,OAA1B,C;;QA5BhB,OA8BO,W;O;KA1CX,C;+FAeA,y
B;MAAA,kF;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,yD;QAUI,eAAwD,cAAzC,YAAY,mCAAwB,EAAxB,C
AAZ,CAAyC,EAAc,EAAd,C;QACjD,kBAAc,mBAAoB,QAApB,C;QA6BL,Q;QAAA,2B;QAAhB,OAAgB,cAAh
B,C;UAAgB,yB;UACZ,WAAY,aA9BoC,WA8BhC,CAAY,OAAZ,CAAJ,EA9BiD,cA8BvB,CAAe,OAAf,CAA1B,
C;;QA9BhB,OAgCO,W;O;KA3CX,C;mGAcA,+C;MAUoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB
;QACZ,WAAY,aAAI,YAAY,OAAZ,CAAJ,EAA0B,OAA1B,C;;MAEhB,OAAO,W;K;mGAGX,+D;MAUoB,Q;M
AAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,WAAY,aAAI,YAAY,OAAZ,CAAJ,EAA0B,eAAe,OAAf
,CAA1B,C;;MAEhB,OAAO,W;K;8FAGX,6C;MASoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QA
CZ,WAAe,UAAU,OAAV,C;QbpkBnB,wBAAI,IAAK,MAAT,EAAgB,IAAK,OAArB,C;;MaskBA,OAAO,W;K;kG
AGX,yB;MAAA,kF;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,2C;QAYI,aAAa,mBAA6D,cAAzC,YAAY,mCAA
wB,EAAxB,CAAZ,CAAyC,EAAc,EAAd,CAA7D,C;QAcG,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;
UAbO,MAcP,aAAI,OAAJ,EAde,aAcF,CAAc,OAAd,CAAb,C;;QAdhB,OAAuB,M;O;KAb3B,C;sGAgBA,iD;MA
UoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,WAAY,aAAI,OAAJ,EAAAa,cAAc,OAAd,CAA
b,C;;MAEhB,OAAO,W;K;IAGX,gD;MAIiB,Q;MAAA,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,WAAY,WAA
I,IAAJ,C;;MAEhB,OAAO,W;K;IAGX,gC;MAII,OAAO,0BAAa,eAAW,YAAY,mCAAwB,EAAxB,CAAZ,CAAX,
CAAb,C;K;IAGX,6B;MAKqB,IAAN,I;MADX,IAAI,oCAAJ,C;QACW,QAAM,cAAN,C;eACH,C;YAAK,kB;YA
AL,K;eACA,C;YAAK,cAAW,8BAAJ,GAAkB,sBAAI,CAAJ,CAAlB,GAA8B,oBAAW,OAAhD,C;YAAL,K;kBA
Ca,uBAAL,SAAK,C;YAHV,K;;QAAP,W;OAMJ,OAA4B,qBAAhB,gBAAL,SAAK,CAAgB,C;K;IAGhC,oC;MAII
,IAAI,oCAAJ,C;QACI,OAAY,gBAAL,SAAK,C;MAChB,OAAO,0BAAa,gBAAb,C;K;IAGX,oC;MAII,OAAO,iB
AAU,SAAV,C;K;IAGX,4B;MAOqB,IAAN,I;MADX,IAAI,oCAAJ,C;QACW,QAAM,cAAN,C;eACH,C;YAAK,iB
;YAAL,K;eACA,C;YAAK,aAAU,8BAAJ,GAAkB,sBAAK,CAAL,CAAlB,GAA+B,oBAAW,OAAhD,C;YAAL,K;
kBACQ,iCAAa,qBAAiB,YAAY,cAAZ,CAAjB,CAAb,C;YAHL,K;;QAAP,W;OAMJ,OAAwC,oBAAjC,0BAAa,s
BAAb,CAAiC,C;K;sFAG5C,yB;MAAA,+D;MAwFA,gD;MAxFA,uC;QAMW,kBAAU,gB;QAsFD,Q;QAAA,2B;
QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAvF6B,SAuFlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,
IAAP,C;;QAxFhB,OA0FO,W;O;KAhGX,C;uFASA,yB;MAAA,+D;MA0FA,gD;MA1FA,uC;QAUW,kBAAU,gB;
QAwFD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAzF6B,SAyFlB,CAAU,OAAV,C;UACC,
OAAZ,WAAY,EAAO,IAAP,C;;QA1FhB,OA4FO,W;O;KAtGX,C;oGAaA,yB;MAAA,+D;MA8BA,wE;MAAA,gD
;MA9BA,uC;QAYW,kBAAiB,gB;QA6BR,gB;QADhB,YAAY,C;QACI,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,y
B;UACZ,WA9BoC,SA8BzB,CAAU,oBAAmB,cAAnB,EAAmB,sBAAnB,UAAV,EAAuC,OAAvC,C;UACC,OAA
Z,WAAY,EAAO,IAAP,C;;QA/BhB,OAiCO,W;O;KA7CX,C;oGAeA,yB;MAAA,+D;MAiCA,wE;MAAA,gD;MAj
CA,uC;QAYW,kBAAiB,gB;QAgCR,gB;QADhB,YAAY,C;QACI,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UA
CZ,WAjCoC,SAiCzB,CAAU,oBAAmB,cAAnB,EAAmB,sBAAnB,UAAV,EAAuC,OAAvC,C;UACC,OAAZ,WA
AY,EAAO,IAAP,C;;QAlChB,OAoCO,W;O;KAhDX,C;wGAeA,yB;MAAA,wE;MAAA,gD;MAAA,oD;QAWoB,
UAC4B,M;QAF5C,YAAY,C;QACI,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAAW,UAAU,oBAAmB,
cAAnB,EAAmB,sBAAnB,UAAV,EAAuC,OAAvC,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;
O;KAfX,C;yGAkBA,yB;MAAA,wE;MAAA,gD;MAAA,oD;QAWoB,UAC4B,M;QAF5C,YAAY,C;QACI,2B;QA
AhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAAW,UAAU,oBAAmB,cAAnB,EAAmB,sBAAnB,UAAV,EAAuC,
OAAvC,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KAfX,C;0FAkBA,yB;MAAA,gD;MAAA,
oD;QAIoB,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAAW,UAAU,OAAV,C;UACC,OAAZ,
WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KARX,C;2FAWA,yB;MAAA,gD;MAAA,oD;QAQoB,Q;QAAA,2B
;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAAW,UAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;
QAEhB,OAAO,W;O;KAZX,C;uFAeA,yB;MAAA,wE;MAyBA,+D;MAzBA,yC;QASW,kBAAU,oB;QAyBD,Q;Q
AAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,UA1BiD,WA0BvC,CAAY,OAAZ,C;UbvnCP,U;UADP,
YaynCe,WbznCH,WaynCwB,GbznCxB,C;UACL,IAAI,aAAJ,C;YACH,aaunCuC,gB;YAA5B,WbtnCX,aasnCgC,G
btnChC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UamnCA,iB;UACA,IAAK,WAAI,OAAJ,C;;QA5BT,OA8BO,W;O;K
AvCX,C;uFAYA,yB;MAAA,wE;MA8BA,+D;MA9BA,yD;QAUW,kBAAU,oB;QA8BD,Q;QAAA,2B;QAAhB,OA

AgB,cAAhB,C;UAAgB,yB;UACZ,UA/BiD,WA+BvC,CAAY,OAAZ,C;UbzoCP,U;UADP,Ya2oCe,Wb3oCH,Wa2
oCwB,Gb3oCxB,C;UACL,IAAI,aAAJ,C;YACH,aayoCuC,gB;YAA5B,WbxoCX,aawoCgC,GbxoChC,EAAS,MAA
T,C;YACA,e;;YAEA,c;;UaqoCA,iB;UACA,IAAK,WAjCyD,cAiCrD,CAAe,OAAf,CAAJ,C;;QAjCT,OAmCO,W;
O;KA7CX,C;0FAaA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UA
CZ,UAAU,YAAY,OAAZ,C;UbvnCP,U;UADP,YaynCe,WbznCH,WaynCwB,GbznCxB,C;UACL,IAAI,aAAJ,C;Y
ACH,aaunCuC,gB;YAA5B,WbtnCX,aasnCgC,GbtnChC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UamnCA,iB;UACA,
IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;2FAiBA,yB;MAAA,+D;MAAA,sE;QAUoB,Q;QAAA,2B;Q
AAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,UAAU,YAAY,OAAZ,C;UbzoCP,U;UADP,Ya2oCe,Wb3oCH,Wa2o
CwB,Gb3oCxB,C;UACL,IAAI,aAAJ,C;YACH,aayoCuC,gB;YAA5B,WbxoCX,aawoCgC,GbxoChC,EAAS,MAA
T,C;YACA,e;;YAEA,c;;UaqoCA,iB;UACA,IAAK,WAAI,eAAe,OAAf,CAAJ,C;;QAET,OAAO,W;O;KAfX,C;4FA
kBA,yB;MAAA,kC;MAAA,4C;MAAA,wE;QAQW,sC;QAAA,8C;O;MARX,oDASQ,Y;QAA6C,OAAA,oBAAgB,
W;O;MATrE,iDAUQ,mB;QAAoC,gCAAY,OAAZ,C;O;MAV5C,gF;MAAA,yC;QAQI,2D;O;KARJ,C;8EAcA,yB;
MAAA,kF;MAAA,gE;MAAA,uC;QAOW,kBAAM,eAAa,mCAAwB,EAAxB,CAAb,C;QAuEA,Q;QAAA,2B;QA
Ab,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAxEwC,SAwEpC,CAAU,IAAV,CAAJ,C;;QAxEhB,OAyEO,W;O;
KAhFX,C;4FAUA,yB;MAAA,kF;MAAA,gE;MA+BA,wE;MA/BA,uC;QAOW,kBAAa,eAAa,mCAAwB,EAAxB,
CAAb,C;QAgCP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAjC+C,SAiC
3C,CAAU,oBAAmB,cAAnB,EAAmB,sBAAnB,UAAV,EAAuC,IAAvC,CAAJ,C;;QAjChB,OAkCO,W;O;KAzCX,
C;0GAUA,yB;MAAA,+D;MAoSA,wE;MApSA,uC;QAOW,kBAAoB,gB;QAoSd,gB;QADb,YAAY,C;QACC,2B;
QAAb,OAAa,cAAb,C;UAAa,sB;UA1RsB,U;UAAA,cAVQ,SAUR,CA0RT,oBAAmB,cAAnB,EAAmB,sBAAnB,
UA1RS,EA0RoB,IA1RpB,W;YAA6C,6B;;QAVhF,OAWO,W;O;KAlBX,C;8GAUA,yB;MA0RA,wE;MA1RA,oD;
QAiSiB,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UA1RsB,U;UAAA,wBA0RT,oBAAmB,
cAAnB,EAAmB,sBAAnB,UA1RS,EA0RoB,IA1RpB,W;YAA6C,6B;;QAChF,OAAO,W;O;KARX,C;+FAWA,yB;
MAAA,wE;MAAA,oD;QAQiB,UACoC,M;QAFjD,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,
WAAY,WAAI,UAAU,oBAAmB,cAAnB,EAAmB,sBAAnB,UAAV,EAAuC,IAAvC,CAAJ,C;;QAChB,OAAO,W;
O;KAVX,C;4FAaA,yB;MAAA,+D;MAAA,uC;QAOW,kBAAa,gB;QAwPJ,Q;QAAA,2B;QAAhB,OAAgB,cAAhB
,C;UAAgB,yB;UAhPK,U;UAAA,cARe,SAQf,CAgPQ,OAhPR,W;YAAsC,6B;;QAR3D,OASO,W;O;KAhBX,C;gG
AUA,yB;MAAA,oD;QAqPoB,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAhPK,U;UAAA,wBAgPQ,
OAhPR,W;YAAsC,6B;;QAC3D,OAAO,W;O;KANX,C;kFASA,6C;MAKiB,Q;MAAA,2B;MAAb,OAAa,cAAb,C;
QAAa,sB;QACT,WAAY,WAAI,UAAU,IAAV,CAAJ,C;;MAChB,OAAO,W;K;IAQiB,4C;MAAA,mB;QAAE,gC;
O;K;IAL9B,gC;MAKI,OAAO,qBAAiB,6BAAjB,C;K;IAGX,+B;MASI,OAA2B,SAAf,eAAL,SAAK,CAAe,C;K;4
FAG/B,yB;MAAA,2D;MAAA,+D;MAAA,sC;QAYc,Q;QAFV,UAAU,c;QACV,WAAW,gB;QACD,2B;QAAV,O
AAU,cAAV,C;UAAU,mB;UACN,UAAU,SAAS,CAAT,C;UACV,IAAI,GAAI,WAAI,GAAJ,CAAR,C;YACI,IAA
K,WAAI,CAAJ,C;;QAEb,OAAO,I;O;KAjBX,C;IAoBA,uC;MAQI,UAAe,eAAL,SAAK,C;MACX,YAAJ,GAAI,E
AAU,KAAV,C;MACJ,OAAO,G;K;IAGX,sC;MAMI,UAAe,eAAL,SAAK,C;MACX,YAAJ,GAAI,EAAU,KAAV,
C;MACJ,OAAO,G;K;IAGX,mC;MAMiB,IAAN,I;MACH,kBADS,SACT,c;QAAoB,4BAAc,SAAd,C;;QACZ,iCA
Aa,sBAAb,C;MAFZ,W;K;IAMJ,mC;MAUI,UAAe,eAAL,SAAK,C;MACX,OAAJ,GAAI,EAAO,KAAP,C;MACJ,
OAAO,G;K;8EAGX,yB;MAAA,gD;MAAA,uC;QAOoB,Q;QADhB,IAAI,wCAAsB,mBAA1B,C;UAAqC,OAAO,I
;QAC5B,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,CAAC,UAAU,OAAV,CAAL,C;YAAyB,OAA
O,K;;QACtD,OAAO,I;O;KARX,C;IAWA,2B;MAMI,IAAI,oCAAJ,C;QAAwB,OAAO,CAAC,mB;MAChC,OAAO
,oBAAW,U;K;+EAGtB,yB;MAAA,gD;MAAA,uC;QAOoB,Q;QADhB,IAAI,wCAAsB,mBAA1B,C;UAAqC,OAA
O,K;QAC5B,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,I;
;QACrD,OAAO,K;O;KARX,C;IAWA,6B;MAMoB,Q;MAFhB,IAAI,oCAAJ,C;QAAwB,OAAO,c;MAC/B,YAAY,
C;MACI,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,oBAAmB,qBAAnB,EAAmB,KAAnB,E;;MACtB,O
AAO,K;K;mFAGX,qB;MAKI,OAAO,c;K;mFAGX,yB;MAAA,gD;MAAA,wE;MAAA,uC;QAMoB,Q;QAFhB,IA
AI,wCAAsB,mBAA1B,C;UAAqC,OAAO,C;QAC5C,YAAY,C;QACI,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;
UAAM,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,oBAAmB,qBAAnB,EAAmB,KAAnB,E;;QAC9C,OAAO,K;O;KA
PX,C;gFAUA,yC;MAUoB,Q;MADhB,kBAAkB,O;MACF,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,cA
Ac,UAAU,WAAV,EAAuB,OAAvB,C;;MACpC,OAAO,W;K;8FAGX,yB;MAAA,wE;MAAA,gD;QAYoB,UAAiD

,M;QAFjE,YAAY,C;QACZ,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,cAAc,UAAU,
oBAAmB,cAAnB,EAAmB,sBAAnB,UAAV,EAAuC,WAAvC,EAAoD,OAApD,C;;QACpC,OAAO,W;O;KAbX,C
;0FAgBA,yC;MASI,kBAAkB,O;MAClB,IAAI,CAAC,mBAAL,C;QACI,eAAe,+BAAa,cAAb,C;QACf,OAAO,QA
AS,cAAhB,C;UACI,cAAc,UAAU,QAAS,WAAnB,EAA+B,WAA/B,C;;OAGtB,OAAO,W;K;wGAGX,yC;MAUI,k
BAAkB,O;MAClB,IAAI,CAAC,mBAAL,C;QACI,eAAe,+BAAa,cAAb,C;QACf,OAAO,QAAS,cAAhB,C;UACI,Y
AAY,QAAS,gB;UACrB,cAAc,UAAU,KAAV,EAAiB,QAAS,WAA1B,EAAsC,WAAtC,C;;OAGtB,OAAO,W;K;s
FAGX,6B;MAKoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,OAAO,OAAP,C;;K;oGAG1B,y
B;MAAA,wE;MAAA,oC;QAOiB,UAAgC,M;QAD7C,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UAA
M,OAAO,oBAAmB,cAAnB,EAAmB,sBAAnB,UAAP,EAAoC,IAApC,C;;O;KAPvB,C;IAUA,0B;MAII,OAAO,sB
;K;IAGX,2B;MAII,OAAO,uB;K;IAGX,2B;MAGI,OAAO,uB;K;kFAGX,+B;MAGW,sB;;QAUP,eAAe,oB;QACf,I
AAI,CAAC,QAAS,UAAd,C;UAAyB,qBAAO,I;UAAP,uB;SACzB,cAAc,QAAS,O;QACvB,IAAI,CAAC,QAAS,U
AAd,C;UAAyB,qBAAO,O;UAAP,uB;SACzB,eAdmB,QAcJ,CAAS,OAAT,C;;UAEX,QAAQ,QAAS,O;UACjB,Q
AjBe,QAiBP,CAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAED,
QAAT,QAAS,W;QAClB,qBAAO,O;;;MAvBP,yB;K;8FAGJ,+B;MAOI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAA
d,C;QAAyB,OAAO,I;MAChC,cAAc,QAAS,O;MACvB,IAAI,CAAC,QAAS,UAAd,C;QAAyB,OAAO,O;MAChC,
eAAe,SAAS,OAAT,C;;QAEX,QAAQ,QAAS,O;QACjB,QAAQ,SAAS,CAAT,C;QACR,IAAI,2BAAW,CAAX,KA
AJ,C;UACI,UAAU,C;UACV,WAAW,C;;MAED,QAAT,QAAS,W;MAClB,OAAO,O;K;mFAGX,yB;MAAA,sE;M
F/yDA,iB;ME+yDA,sC;QAaI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,S
AAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAlB,C;UACR,WFzzDG,M
AAO,KEyzDO,QFzzDP,EEyzDiB,CFzzDjB,C;;QE2zDd,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MFj1DA
,iB;MEi1DA,sC;QAaI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,SAAS,Q
AAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAlB,C;UACR,WF31DG,MAAO,
KE21DO,QF31DP,EE21DiB,CF31DjB,C;;QE61Dd,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAAA,sC;Q
AWI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,SAAS,QAAS,OAAlB,C;Q
ACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAlB,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YAC
I,WAAW,C;;QAGnB,OAAO,Q;O;KApBX,C;+FAuBA,yB;MFp3DA,iB;MEo3DA,sC;QAWI,eAAe,oB;QACf,IAAI
,CAAC,QAAS,UAAd,C;UAAyB,OAAO,I;QAChC,eAAe,SAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C
;UACI,QAAQ,SAAS,QAAS,OAAlB,C;UACR,WF53DG,MAAO,KE43DO,QF53DP,EE43DiB,CF53DjB,C;;QE83
Dd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MFp5DA,iB;MEo5DA,sC;QAWI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UA
Ad,C;UAAyB,OAAO,I;QAChC,eAAe,SAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SA
AS,QAAS,OAAlB,C;UACR,WF55DG,MAAO,KE45DO,QF55DP,EE45DiB,CF55DjB,C;;QE85Dd,OAAO,Q;O;K
AlBX,C;+FAqBA,+B;MASI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,eAAe,SAA
S,QAAS,OAAlB,C;MACf,OAAO,QAAS,UAAhB,C;QACI,QAAQ,SAAS,QAAS,OAAlB,C;QACR,IAAI,2BAAW,
CAAX,KAAJ,C;UACI,WAAW,C;;MAGnB,OAAO,Q;K;0FAGX,yB;MAAA,sE;MAAA,kD;QAWI,eAAe,oB;QAC
f,IAAI,CAAC,QAAS,UAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,SAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,
UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAlB,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GA
AkC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KApBX,C;sGAuBA,2C;MASI,eAAe,oB;MACf,IAAI,CAA
C,QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,eAAe,SAAS,QAAS,OAAlB,C;MACf,OAAO,QAAS,UAAhB,C;QA
CI,QAAQ,SAAS,QAAS,OAAlB,C;QACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C
;UACI,WAAW,C;;MAGnB,OAAO,Q;K;IAGX,gC;MAOI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAd,C;QAAyB,
OAAO,I;MAChC,UAAU,QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;QACI,QAAQ,QAAS,O;QACjB,MFn+DG,
MAAO,KEm+DE,GFn+DF,EEm+DO,CFn+DP,C;;MEq+Dd,OAAO,G;K;IAGX,iC;MAOI,eAAe,oB;MACf,IAAI,C
AAC,QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,UAAU,QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;QACI,QAA
Q,QAAS,O;QACjB,MF//DG,MAAO,KE+/DE,GF//DF,EE+/DO,CF//DP,C;;MEigEd,OAAO,G;K;IAGX,iC;MAKI,e
AAe,oB;MACf,IAAI,CAAC,QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,UAAU,QAAS,O;MACnB,OAAO,QAAS,
UAAhB,C;QACI,QAAQ,QAAS,O;QACjB,IAAI,sBAAM,CAAN,KAAJ,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K
;IAGX,0C;MAGI,OAAO,2BAAc,UAAd,C;K;IAGX,gD;MAKI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAd,C;QA
AyB,OAAO,I;MAChC,UAAU,QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;QACI,QAAQ,QAAS,O;QACjB,IAAI,

UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,0
B;MAII,OAAO,sB;K;IAGX,2B;MAII,OAAO,uB;K;IAGX,2B;MAGI,OAAO,uB;K;kFAGX,+B;MAGW,sB;;QAUP
,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,qBAAO,I;UAAP,uB;SACzB,cAAc,QAAS,O;QACvB,IAA
I,CAAC,QAAS,UAAd,C;UAAyB,qBAAO,O;UAAP,uB;SACzB,eAdmB,QAcJ,CAAS,OAAT,C;;UAEX,QAAQ,Q
AAS,O;UACjB,QAjBe,QAiBP,CAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,W
AAW,C;;QAED,QAAT,QAAS,W;QAClB,qBAAO,O;;;MAvBP,yB;K;8FAGJ,+B;MAOI,eAAe,oB;MACf,IAAI,CA
AC,QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,cAAc,QAAS,O;MACvB,IAAI,CAAC,QAAS,UAAd,C;QAAyB,O
AAO,O;MAChC,eAAe,SAAS,OAAT,C;;QAEX,QAAQ,QAAS,O;QACjB,QAAQ,SAAS,CAAT,C;QACR,IAAI,2B
AAW,CAAX,KAAJ,C;UACI,UAAU,C;UACV,WAAW,C;;MAED,QAAT,QAAS,W;MAClB,OAAO,O;K;mFAGX
,yB;MAAA,sE;MFl4DA,iB;MEk4DA,sC;QAaI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,MAAM,6B
;QAC/B,eAAe,SAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAlB,C;U
ACR,WF54DG,MAAO,KE44DO,QF54DP,EE44DiB,CF54DjB,C;;QE84Dd,OAAO,Q;O;KApBX,C;mFAuBA,yB;
MAAA,sE;MFp6DA,iB;MEo6DA,sC;QAaI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,MAAM,6B;Q
AC/B,eAAe,SAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAlB,C;UAC
R,WF96DG,MAAO,KE86DO,QF96DP,EE86DiB,CF96DjB,C;;QEg7Dd,OAAO,Q;O;KApBX,C;mFAuBA,yB;MA
AA,sE;MAAA,sC;QAWI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,SAAS,
QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAlB,C;UACR,IAAI,2BAAW,C
AAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KApBX,C;+FAuBA,yB;MFv8DA,iB;MEu8DA,sC;QAWI,e
AAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,OAAO,I;QAChC,eAAe,SAAS,QAAS,OAAlB,C;QACf,OA
AO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAlB,C;UACR,WF/8DG,MAAO,KE+8DO,QF/8DP,EE+8Di
B,CF/8DjB,C;;QEi9Dd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MFv+DA,iB;MEu+DA,sC;QAWI,eAAe,oB;QACf,IA
AI,CAAC,QAAS,UAAd,C;UAAyB,OAAO,I;QAChC,eAAe,SAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAh
B,C;UACI,QAAQ,SAAS,QAAS,OAAlB,C;UACR,WF/+DG,MAAO,KE++DO,QF/+DP,EE++DiB,CF/+DjB,C;;QE
i/Dd,OAAO,Q;O;KAlBX,C;+FAqBA,+B;MASI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAd,C;QAAyB,OAAO,I;
MAChC,eAAe,SAAS,QAAS,OAAlB,C;MACf,OAAO,QAAS,UAAhB,C;QACI,QAAQ,SAAS,QAAS,OAAlB,C;Q
ACR,IAAI,2BAAW,CAAX,KAAJ,C;UACI,WAAW,C;;MAGnB,OAAO,Q;K;0FAGX,yB;MAAA,sE;MAAA,kD;Q
AWI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,SAAS,QAAS,OAAlB,C;Q
ACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAlB,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB
,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KApBX,C;sGAuBA,2C;MASI,eAAe,o
B;MACf,IAAI,CAAC,QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,eAAe,SAAS,QAAS,OAAlB,C;MACf,OAAO,Q
AAS,UAAhB,C;QACI,QAAQ,SAAS,QAAS,OAAlB,C;QACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAA
X,GAAkC,CAAtC,C;UACI,WAAW,C;;MAGnB,OAAO,Q;K;IAGX,gC;MAOI,eAAe,oB;MACf,IAAI,CAAC,QAA
S,UAAd,C;QAAyB,OAAO,I;MAChC,UAAU,QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;QACI,QAAQ,QAAS,O
;QACjB,MFtjEG,MAAO,KEsjEE,GFtjEF,EEsjEO,CFtjEP,C;;MEwjEd,OAAO,G;K;IAGX,iC;MAOI,eAAe,oB;MA
Cf,IAAI,CAAC,QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,UAAU,QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;Q
ACI,QAAQ,QAAS,O;QACjB,MFllEG,MAAO,KEklEE,GFllEF,EEklEO,CFllEP,C;;MEolEd,OAAO,G;K;IAGX,iC
;MAKI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,UAAU,QAAS,O;MACnB,OAA
O,QAAS,UAAhB,C;QACI,QAAQ,QAAS,O;QACjB,IAAI,sBAAM,CAAN,KAAJ,C;UAAa,MAAM,C;;MAEvB,O
AAO,G;K;IAGX,0C;MAGI,OAAO,2BAAc,UAAd,C;K;IAGX,gD;MAKI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UA
Ad,C;QAAyB,OAAO,I;MAChC,UAAU,QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;QACI,QAAQ,QAAS,O;QA
CjB,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;
K;IAGX,4B;MAMI,IAAI,oCAAJ,C;QAAwB,OAAO,mB;MAC/B,OAAO,CAAC,oBAAW,U;K;iFAGvB,yB;MAA
A,gD;MAAA,uC;QAOoB,Q;QADhB,IAAI,wCAAsB,mBAA1B,C;UAAqC,OAAO,I;QAC5B,2B;QAAhB,OAAgB,
cAAhB,C;UAAgB,yB;UAAM,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,K;;QACrD,OAAO,I;O;KARX,C;oF
AWA,6B;MAKmC,Q;MAAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,OAAO,OAAP,C;;MAArC,gB;
K;kGAGJ,yB;MAAAA,6B;MAAAA,sC;MArnBA,wE;MAqnBA,2BAQiB,yB;QA7nBjB,wE;eA6nBiB,0B;UAAAA,4B;
YAAE,aAAe,c;YAtnBjB,gB;YADb,YAAY,C;YACC,2B;YAAb,OAAa,cAAb,C;cAAa,sB;cAAM,OAAO,oBAAm
B,cAAnB,EAAAmB,sBAAnB,UAAP,EAAAoC,IAApC,C;;YAsnBmB,W;W;S;OAAzB,C;MARjB,oC;QA9mBiB,gB;

QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UAAM,OAAO,oBAAmB,cAAnB,EAAmB,sBAAnB,
UAAP,EAAoC,IAApC,C;;QAsnBnB,gB;O;KARJ,C;oFAWA,yB;MAAA,4F;MAAA,uC;QAaI,eAAe,SAAK,W;QA
CpB,IAAI,CAAC,QAAS,UAAd,C;UAAyB,MAAM,mCAA8B,oCAA9B,C;QAC/B,kBAAqB,QAAS,O;QAC9B,O
AAO,QAAS,UAAhB,C;UACI,cAAc,UAAU,WAAV,EAAuB,QAAS,OAAhC,C;;QAElB,OAAO,W;O;KAnBX,C;k
GAsBA,yB;MAAA,4F;MAAA,wE;MAAA,uC;QAkBmD,Q;QAL/C,eAAe,SAAK,W;QACpB,IAAI,CAAC,QAAS,
UAAd,C;UAAyB,MAAM,mCAA8B,oCAA9B,C;QAC/B,YAAY,C;QACZ,kBAAqB,QAAS,O;QAC9B,OAAO,QA
AS,UAAhB,C;UACI,cAAc,UAAU,oBAAmB,YAAnB,EAAmB,oBAAnB,QAAV,EAAuC,WAAvC,EAAoD,QAA
S,OAA7D,C;;QAElB,OAAO,W;O;KApBX,C;8GAuBA,yB;MAAA,wE;MAAA,uC;QAkBmD,Q;QAL/C,eAAe,SA
AK,W;QACpB,IAAI,CAAC,QAAS,UAAd,C;UAAyB,OAAO,I;QAChC,YAAY,C;QACZ,kBAAqB,QAAS,O;QAC
9B,OAAO,QAAS,UAAhB,C;UACI,cAAc,UAAU,oBAAmB,YAAnB,EAAmB,oBAAnB,QAAV,EAAuC,WAAvC,
EAAoD,QAAS,OAA7D,C;;QAElB,OAAO,W;O;KApBX,C;gGAuBA,gC;MAcI,eAAe,SAAK,W;MACpB,IAAI,C
AAC,QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,kBAAqB,QAAS,O;MAC9B,OAAO,QAAS,UAAhB,C;QACI,cA
Ac,UAAU,WAAV,EAAuB,QAAS,OAAhC,C;;MAElB,OAAO,W;K;8FAGX,yB;MAAA,4F;MAAA,uC;QAaI,eAA
e,+BAAa,cAAb,C;QACf,IAAI,CAAC,QAAS,cAAd,C;UACI,MAAM,mCAA8B,8BAA9B,C;QACV,kBAAqB,QA
AS,W;QAC9B,OAAO,QAAS,cAAhB,C;UACI,cAAc,UAAU,QAAS,WAAnB,EAA+B,WAA/B,C;;QAElB,OAAO,
W;O;KApBX,C;4GAuBA,yB;MAAA,4F;MAAA,uC;QAaI,eAAe,+BAAa,cAAb,C;QACf,IAAI,CAAC,QAAS,cAA
d,C;UACI,MAAM,mCAA8B,8BAA9B,C;QACV,kBAAqB,QAAS,W;QAC9B,OAAO,QAAS,cAAhB,C;UACI,YA
AY,QAAS,gB;UACrB,cAAc,UAAU,KAAV,EAAiB,QAAS,WAA1B,EAAsC,WAAtC,C;;QAElB,OAAO,W;O;KA
rBX,C;wHAwBA,gC;MAaI,eAAe,+BAAa,cAAb,C;MACf,IAAI,CAAC,QAAS,cAAd,C;QACI,OAAO,I;MACX,kB
AAqB,QAAS,W;MAC9B,OAAO,QAAS,cAAhB,C;QACI,YAAY,QAAS,gB;QACrB,cAAc,UAAU,KAAV,EAAiB
,QAAS,WAA1B,EAAsC,WAAtC,C;;MAElB,OAAO,W;K;0GAGX,gC;MAcI,eAAe,+BAAa,cAAb,C;MACf,IAAI,
CAAC,QAAS,cAAd,C;QACI,OAAO,I;MACX,kBAAqB,QAAS,W;MAC9B,OAAO,QAAS,cAAhB,C;QACI,cAAc
,UAAU,QAAS,WAAnB,EAA+B,WAA/B,C;;MAElB,OAAO,W;K;8FAGX,yB;MAAA,kF;MAAA,gD;MAAA,gE;
MAAA,gD;QAiBoB,Q;QAJhB,oBAAoB,mCAAwB,CAAxB,C;QACpB,IAAI,kBAAiB,CAArB,C;UAAwB,OAAO
,OAAO,OAAP,C;QACCc,kBAAhC,eAAa,gBAAgB,CAAhB,IAAb,C;QAAwC,8B;QAArD,aHjjFO,W;QGkjFP,kBA
AkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd
,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;4GAwBA,yB;MAAA,kF;MAAA,gD;MAAA,gE;MAAA,
gD;QAmBoB,UACY,M;QAN5B,oBAAoB,mCAAwB,CAAxB,C;QACpB,IAAI,kBAAiB,CAArB,C;UAAwB,OAA
O,OAAO,OAAP,C;QACCc,kBAAhC,eAAa,gBAAgB,CAAhB,IAAb,C;QAAwC,8B;QAArD,aH1kFO,W;QG2kFP,Y
AAY,C;QACZ,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,WAAU,cAAV,EAAU
,sBAAV,WAAmB,WAAnB,EAAgC,OAAhC,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAvBX,C;k
GA0BA,yB;MAAA,qD;MAAA,kF;MAAA,gE;MAAA,uC;QAcI,eAAe,SAAK,W;QACpB,IAAI,CAAC,QAAS,UA
Ad,C;UAAyB,OAAO,W;QAChC,sBAAqB,QAAS,OAA9B,C;QACuD,kBAA1C,eAAa,mCAAwB,EAAxB,CAAb,
C;QAAkD,sBAAI,aAAJ,C;QAA/D,aHrmFO,W;QGsmFP,OAAO,QAAS,UAAhB,C;UACI,gBAAc,UAAU,aAAV,
EAAuB,QAAS,OAAhC,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;gHAyBA,yB;MAAA,qD
;MAAA,kF;MAAA,gE;MAAA,uC;QAoBgC,Q;QAN5B,eAAe,SAAK,W;QACpB,IAAI,CAAC,QAAS,UAAd,C;U
AAyB,OAAO,W;QAChC,sBAAqB,QAAS,OAA9B,C;QACuD,kBAA1C,eAAa,mCAAwB,EAAxB,CAAb,C;QAA
kD,sBAAI,aAAJ,C;QAA/D,aH9nFO,W;QG+nFP,YAAY,C;QACZ,OAAO,QAAS,UAAhB,C;UACI,gBAAc,WAA
U,YAAV,EAAU,oBAAV,SAAmB,aAAnB,EAAgC,QAAS,OAAzC,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAA
O,M;O;KAvBX,C;gFA0BA,yB;MArGA,kF;MAAA,gD;MAAA,gE;MAqGA,gD;QAcW,sB;;UAlGS,Q;UAJhB,oB
AAoB,mCAAwB,CAAxB,C;UACpB,IAAI,kBAAiB,CAArB,C;YAAwB,qBAAO,OAqGZ,OArGY,C;YAAP,uB;W
ACqB,kBAAhC,eAAa,gBAAgB,CAAhB,IAAb,C;UAAwC,sBAoGlC,OApGkC,C;UAArD,aHjjFO,W;UGkjFP,kB
AmGmB,O;UAlGH,2B;UAAhB,OAAgB,cAAhB,C;YAAgB,yB;YACZ,cAiGwB,SAjGV,CAAU,WAAV,EAAuB,
OAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QA8FP,yB;O;KAdJ,C;8FAiBA,yB;MA9FA,kF;M
AAA,gD;MAAA,gE;MA8FA,gD;QAeW,6B;;UA1FS,gB;UALhB,oBAAoB,mCAAwB,CAAxB,C;UACpB,IAAI,k
BAAiB,CAArB,C;YAAwB,4BAAO,OA8FL,OA9FK,C;YAAP,8B;WACqB,kBAAhC,eAAa,gBAAgB,CAAhB,IA
Ab,C;UAAwC,sBA6F3B,OA7F2B,C;UAArD,aH1kFO,W;UG2kFP,YAAY,C;UACZ,kBA2F0B,O;UA1FV,2B;UA
AhB,OAAgB,cAAhB,C;YAAgB,yB;YACZ,cAyF+B,SAzFjB,EAAU,cAAV,EAAU,sBAAV,WAAmB,WAAnB,EA

AgC,OAAhC,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,4BAAO,M;;;QAsFP,gC;O;KAfJ,C;kFAkBA,+B;MAOoB,
Q;MADhB,UAAe,C;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,YAAO,SAAS,OAAT,CAAP,I;;M
AEJ,OAAO,G;K;8FAGX,+B;MAOoB,Q;MADhB,UAAkB,G;MACF,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;
QACZ,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;mFAGX,+B;MAUoB,Q;MADhB,UAAoB,C;MACJ,2B;MAA
hB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;mFAGX,+B;MAUoB,Q;M
ADhB,UAAe,C;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,YAAO,SAAS,OAAT,CAAP,I;;MAEJ,
OAAO,G;K;mFAGX,yB;MAAA,SASoB,gB;MATpB,sC;QAUoB,Q;QADhB,Y;QACgB,2B;QAAhB,OAAgB,cAA
hB,C;UAAgB,yB;UACZ,cAAO,SAAS,OAAT,CAAP,C;;QAEJ,OAAO,G;O;KAbX,C;mFAgBA,yB;MjB/7EA,6B;
MiB+7EA,sC;QAWoB,Q;QADhB,UjB/7EmC,ciB+7EnB,CjB/7EmB,C;QiBg8EnB,2B;QAAhB,OAAgB,cAAhB,C;
UAAgB,yB;UACZ,MjBnwFiD,ciBmwFjD,GjBnwF2D,KAAK,GiBmwFzD,SAAS,OAAT,CjBnwFoE,KAAX,IAAf
,C;;QiBqwFrD,OAAO,G;O;KAdX,C;mFAiBA,yB;MD78EA,+B;MC68EA,sC;QAWoB,Q;QADhB,UD58EqC,eAA
W,oBC48E/B,CD58E+B,CAAX,C;QC68ErB,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,MDjxFmD,eCixF
nD,GDjxF8D,KAAK,KCixF5D,SAAS,OAAT,CDjxFuE,KAAX,CAAhB,C;;QCmxFvD,OAAO,G;O;KAdX,C;IAiB
A,qC;MAIoB,UAMT,M;MANS,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,eAAJ,C;UACI,MAAM,
gCAAyB,2BAAwB,SAAxB,MAAzB,C;;MAId,OAAO,mE;K;IAGX,qC;MAIoB,UAMT,M;MANS,2B;MAAhB,O
AAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,eAAJ,C;UACI,MAAM,gCAAyB,2BAAwB,SAAxB,MAAzB,C;;MAId,
OAAO,+D;K;IAGX,kC;MAWI,OAAO,oBAAS,IAAT,EAAe,IAAf,EAAsC,IAAtC,C;K;IAGX,+C;MAgBI,OAAO,s
BAAS,IAAT,EAAe,IAAf,EAAsC,IAAtC,EAAwD,SAAxD,C;K;IAGX,mC;MAII,aAAa,iBAAa,mCAAwB,EAAxB
,CAAb,C;MACb,kBAAc,KAAd,C;MAnlEgB,Q;MAAA,OAolET,SAplES,W;MAAhB,OAAgB,cAAhB,C;QAAgB,
2B;QAAU,oB;QAolEK,IAAI,CAAC,SAAD,IAAY,OAplEX,SAolEW,UAAhB,C;UAAiC,YAAU,I;UAA3C,mBAA
iD,K;;UAAjD,mBAA8D,I;;QAplEvE,qB;UAolED,MAplEqC,WAAI,SAAJ,C;;MAolE1D,OAAqB,M;K;IAGzB,sC;
MAQI,IAAI,QpB0yJG,YAAQ,CoB1yJf,C;QAAwB,OAAY,SAAL,SAAK,C;MACpC,YAAqB,8BAAT,QAAS,C;M
AtoEd,kBAAY,gB;MA4BH,Q;MAAA,OA2mET,SA3mES,W;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IA
AI,CA2mEF,qBA3mEa,OA2mEb,CA3mEF,C;UAAyB,WAAY,WAAI,OAAJ,C;;MA2mE3D,OA1mEO,W;K;IA6m
EX,sC;MAQI,YAAqB,gCAAT,QAAS,EAAgC,SAAhC,C;MACrB,IAAI,KAAM,UAAV,C;QACI,OAAY,SAAL,S
AAK,C;MAppET,kBAAY,gB;MA4BH,Q;MAAA,OAynET,SAznES,W;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;Q
AAM,IAAI,CAynEF,qBAznEa,OAynEb,CAznEF,C;UAAyB,WAAY,WAAI,OAAJ,C;;MAynE3D,OAxnEO,W;K;I
A2nEX,sC;MAQI,YAAqB,8BAAT,QAAS,C;MACrB,IAAI,KAAM,UAAV,C;QACI,OAAY,SAAL,SAAK,C;MAl
qET,kBAAY,gB;MA4BH,Q;MAAA,OAuoET,SAvoES,W;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,
CAuoEF,qBAvoEa,OAuoEb,CAvoEF,C;UAAyB,WAAY,WAAI,OAAJ,C;;MAuoE3D,OAtoEO,W;K;8FAyoEX,yB
;MAAA,8C;MAAA,qC;QAKI,OAAO,iBAAM,OAAN,C;O;KALX,C;0FAQA,yB;MAAA,+D;MAAA,6B;MAAA,u
C;QAUoB,Q;QAFhB,YAAY,gB;QACZ,aAAa,gB;QACG,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI
,UAAU,OAAV,CAAJ,C;YACI,KAAM,WAAI,OAAJ,C;;YAEN,MAAO,WAAI,OAAJ,C;;;QAGf,OAAO,cAAK,K
AAL,EAAY,MAAZ,C;O;KAjBX,C;IAoBA,kC;MAII,IAAI,oCAAJ,C;QAAwB,OAAY,OAAL,SAAK,EAAK,OAA
L,C;MACpC,aAAa,gB;MACN,OAAP,MAAO,EAAO,SAAP,C;MACP,MAAO,WAAI,OAAJ,C;MACP,OAAO,M;
K;IAGX,oC;MAII,aAAa,iBAAa,iBAAO,CAAP,IAAb,C;MACb,MAAO,gBAAO,SAAP,C;MACP,MAAO,WAAI,
OAAJ,C;MACP,OAAO,M;K;IAGX,qC;MAII,IAAI,oCAAJ,C;QAAwB,OAAY,OAAL,SAAK,EAAK,QAAL,C;M
ACpC,aAAa,gB;MACN,OAAP,MAAO,EAAO,SAAP,C;MACA,SAAP,MAAO,EAAO,QAAP,C;MACP,OAAO,M
;K;IAGX,qC;MAII,aAAa,iBAAa,SAAK,KAAL,GAAY,QAAS,OAArB,IAAb,C;MACb,MAAO,gBAAO,SAAP,C;
MACA,SAAP,MAAO,EAAO,QAAP,C;MACP,OAAO,M;K;IAGX,qC;MAII,IAAI,oCAAJ,C;QAAwB,OAAY,OA
AL,SAAK,EAAK,QAAL,C;MACpC,aAAa,gB;MACN,OAAP,MAAO,EAAO,SAAP,C;MACA,OAAP,MAAO,EA
AO,QAAP,C;MACP,OAAO,M;K;IAGX,qC;MAII,IAAI,mCAAJ,C;QACI,aAAa,iBAAa,SAAK,KAAL,GAAY,QA
AS,KAArB,IAAb,C;QACb,MAAO,gBAAO,SAAP,C;QACP,MAAO,gBAAO,QAAP,C;QACP,OAAO,M;;QAEP,e
AAa,iBAAa,SAAb,C;QACN,OAAP,QAAO,EAAO,QAAP,C;QACP,OAAO,Q;;K;IAIf,qC;MAII,aAAa,gB;MACN,
OAAP,MAAO,EAAO,SAAP,C;MACA,SAAP,MAAO,EAAO,QAAP,C;MACP,OAAO,M;K;IAGX,qC;MAII,aAA
a,iBAAa,SAAK,KAAL,GAAY,EAAZ,IAAb,C;MACb,MAAO,gBAAO,SAAP,C;MACA,SAAP,MAAO,EAAO,Q
AAP,C;MACP,OAAO,M;K;4FAGX,yB;MAAA,4C;MAAA,qC;QAKI,OAAO,gBAAK,OAAL,C;O;KALX,C;8FA
QA,yB;MAAA,4C;MAAA,qC;QAKI,OAAO,gBAAK,OAAL,C;O;KALX,C;IAQA,yD;MAgB+C,oB;QAAA,OAA

Y,C;MAAG,8B;QAAA,iBAA0B,K;MAOzE,Q;MANX,oBAAoB,IAApB,EAA0B,IAA1B,C;MACA,IAAI,0CAAw
B,8BAA5B,C;QACI,eAAe,SAAK,K;QACpB,qBAAqB,YAAW,IAAX,SAAsB,WAAW,IAAX,KAAmB,CAAvB,G
AA0B,CAA1B,GAAiC,CAAnD,K;QACrB,aAAa,iBAAmB,cAAnB,C;QACb,gBAAY,CAAZ,C;QACA,Y;UAAO,c
;UAAP,MAAgB,CAAT,mBAAiB,QAAxB,E;YAAA,K;UACI,iBAAsB,eAAL,IAAK,EAAa,WAAW,OAAX,IAAb,
C;UACtB,IAAI,aAAa,IAAb,IAAqB,CAAC,cAA1B,C;YAA0C,K;Ud59FlD,WAAW,iBc69Fa,Ud79Fb,C;UWCX,m
BAAc,CAAd,YG49FwB,UH59FxB,Y;YXA6B,ec49FS,sBH39F3B,OG29FgC,GAAK,OAAL,IAAL,Cd59FT,C;;Uc
49FrB,MAAO,Wd39FR,Ic29FQ,C;UACP,oBAAS,IAAT,I;;QAEJ,OAAO,M;OAEX,eAAa,gB;MACiE,kBAA9E,iB
AAiB,oBAAjB,EAA6B,IAA7B,EAAmC,IAAnC,EAAyC,cAAzC,EAAuE,KAAvE,C;ME5lGA,OAAgB,qBAAhB,
C;QAAgB,gC;QF6lGL,mBE7lGqB,OF6lGrB,C;;MAEX,OAAO,Q;K;IAGX,sE;MAkBkD,oB;QAAA,OAAY,C;MA
AG,8B;QAAA,iBAA0B,K;MACvF,oBAAoB,IAApB,EAA0B,IAA1B,C;MACA,IAAI,0CAAwB,8BAA5B,C;QACI
,eAAe,SAAK,K;QACpB,qBAAqB,YAAW,IAAX,SAAsB,WAAW,IAAX,KAAmB,CAAvB,GAA0B,CAA1B,GAA
iC,CAAnD,K;QACrB,aAAa,iBAAa,cAAb,C;QACb,eAAa,kBAAc,SAAd,C;QACb,YAAY,C;QACZ,OAAgB,CAA
T,qBAAiB,QAAxB,C;UACI,iBAAsB,eAAL,IAAK,EAAa,WAAW,KAAX,IAAb,C;UACtB,IAAI,CAAC,cAAD,IA
AmB,aAAa,IAApC,C;YAA0C,K;UAC1C,QAAO,cAAK,KAAL,EAAY,QAAQ,UAAR,IAAZ,C;UACP,MAAO,W
AAI,UAAU,QAAV,CAAJ,C;UACP,gBAAS,IAAT,I;;QAEJ,OAAO,M;OAEX,eAAa,gB;MACgE,kBAA7E,iBAAi
B,oBAAjB,EAA6B,IAA7B,EAAmC,IAAnC,EAAyC,cAAzC,EAAuE,IAAvE,C;MEtoGA,OAAgB,qBAAhB,C;QA
AgB,gC;QFuoGL,mBAAI,UEvoGiB,OFuoGjB,CAAJ,C;;MAEX,OAAO,Q;K;IAGX,kC;MAqBoB,gB;MAHhB,gB
AXW,KAWW,O;MACtB,WAAW,iBF17FJ,MAAO,KE07FgB,mCAAwB,EAAxB,CF17FhB,EE07F6C,SF17F7C,C
E07FH,C;MACX,QAAQ,C;MACQ,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,KAAK,SAAT,C;UA
AoB,K;QACpB,IAAK,WAhBqB,GAgBP,OAhBO,EAAnB,KAgBqB,CAAM,UAAN,EAAM,kBAAN,SAhBF,CAg
BrB,C;;MAhBT,OAkBO,I;K;+EAfX,yB;MAAA,kF;MAAA,gE;MFv7FA,iB;MEu7FA,8C;QAWoB,UAEsB,M;QA
LtC,gBAAgB,KAAM,O;QACtB,WAAW,eF17FJ,MAAO,KE07FgB,mCAAwB,EAAxB,CF17FhB,EE07F6C,SF17
F7C,CE07FH,C;QACX,QAAQ,C;QACQ,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,
C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,OAAV,EAAmB,MAAM,UAAN,EAAM,kBAAN,SAAnB,CAAJ,C;;Q
AET,OAAO,I;O;KAfX,C;IAkBA,kC;MAkBI,YAAY,oB;MACZ,aAZW,KAYQ,W;MACnB,WAAW,iBFv9FJ,MA
AO,KEu9FgB,mCAAwB,EAAxB,CFv9FhB,EEu9FmD,wBAbtD,KAasD,EAAwB,EAAxB,CFv9FnD,CEu9FH,C;
MACX,OAAO,KAAM,UAAN,IAAmB,MAAO,UAAjC,C;QACI,IAAK,WAfqB,GAeP,KAAM,OAfC,EAeO,MAA
O,OAfd,CAerB,C;;MAfT,OAiBO,I;K;+EAdX,yB;MAAA,kF;MAAA,gE;MFn9FA,iB;MEm9FA,8C;QAQI,YAAY,
oB;QACZ,aAAa,KAAM,W;QACnB,WAAW,eFv9FJ,MAAO,KEu9FgB,mCAAwB,EAAxB,CFv9FhB,EEu9FmD,
wBAAN,KAAM,EAAwB,EAAxB,CFv9FnD,CEu9FH,C;QACX,OAAO,KAAM,UAAN,IAAmB,MAAO,UAAjC,C
;UACI,IAAK,WAAI,UAAU,KAAM,OAAhB,EAAwB,MAAO,OAA/B,CAAJ,C;;QAET,OAAO,I;O;KAdX,C;IAiB
A,gC;MASW,sB;;QAaP,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,qBAAO,W;UAAP,uB;SACzB,ad/
pGoD,gB;QcgqGpD,cAAc,QAAS,O;QACvB,OAAO,QAAS,UAAhB,C;UACI,WAAW,QAAS,O;UACpB,MAAO,
WAnBkB,GAmBJ,OAnBI,EAmBK,IAnBL,CAmBlB,C;UACP,UAAU,I;;QAEd,qBAAO,M;;;MAtBP,yB;K;8FAGJ,
yB;MAAA,qD;MdzpGA,+D;McypGA,uC;QAUI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,OAAO,W
;QAChC,ad/pGoD,gB;QcgqGpD,cAAc,QAAS,O;QACvB,OAAO,QAAS,UAAhB,C;UACI,WAAW,QAAS,O;UAC
pB,MAAO,WAAI,UAAU,OAAV,EAAmB,IAAnB,CAAJ,C;UACP,UAAU,I;;QAEd,OAAO,M;O;KAnBX,C;IAsB
A,8F;MAQ6D,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA
,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAoC,I;MAGtN,Q;MAFhB,MAAO,gBAAO,MAAP,
C;MACP,YAAY,C;MACI,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,iCAAU,CAAd,C;UAAiB,MA
AO,gBAAO,SAAP,C;QACxB,IAAI,QAAQ,CAAR,IAAa,SAAS,KAA1B,C;UACW,gBAAP,MAAO,EAAc,OAAd,
EAAuB,SAAvB,C;;UACJ,K;;MAEX,IAAI,SAAS,CAAT,IAAc,QAAQ,KAA1B,C;QAAiC,MAAO,gBAAO,SAAP,
C;MACxC,MAAO,gBAAO,OAAP,C;MACP,OAAO,M;K;IAGX,4F;MAQwC,yB;QAAA,YAA0B,I;MAAM,sB;Q
AAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB
;QAAA,YAAoC,I;MACjN,OAAO,oBAAO,sBAAP,EAAwB,SAAxB,EAAmC,MAAnC,EAA2C,OAA3C,EAAoD,
KAApD,EAA2D,SAA3D,EAAsE,SAAtE,CAAiF,W;K;4FAG5F,qB;MAKI,OAAO,S;K;IASS,8C;MAAA,mB;QAA
E,OAAAA,eAAK,W;O;K;IAN3B,iC;MAMI,oCAAgB,8BAAhB,C;K;IAGJ,+B;MAOoB,Q;MAFhB,UAAkB,G;MAC
lB,YAAiB,C;MACD,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,O;QACP,oBAAmB,qBAAnB,EA

AmB,KAAnB,E;;MAEJ,OAAW,UAAS,CAAb,GAAgB,wCAAO,IAAvB,GAAgC,MAAM,K;K;IAGjD,+B;MAOo
B,Q;MAFhB,UAAkB,G;MAClB,YAAiB,C;MACD,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,O;
QACP,oBAAmB,qBAAnB,EAAmB,KAAnB,E;;MAEJ,OAAW,UAAS,CAAb,GAAgB,wCAAO,IAAvB,GAAgC,
MAAM,K;K;IAGjD,+B;MAOoB,Q;MAFhB,UAAkB,G;MAClB,YAAiB,C;MACD,2B;MAAhB,OAAgB,cAAhB,C
;QAAgB,yB;QACZ,OAAO,O;QACP,oBAAmB,qBAAnB,EAAmB,KAAnB,E;;MAEJ,OAAW,UAAS,CAAb,GAA
gB,wCAAO,IAAvB,GAAgC,MAAM,K;K;IAGjD,+B;MAOoB,Q;MAFhB,UAAkB,G;MAClB,YAAiB,C;MACD,2
B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,O;QACP,oBAAmB,qBAAnB,EAAmB,KAAnB,E;;MAE
J,OAAW,UAAS,CAAb,GAAgB,wCAAO,IAAvB,GAAgC,MAAM,K;K;IAGjD,+B;MAOoB,Q;MAFhB,UAAkB,G
;MAClB,YAAiB,C;MACD,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,O;QACP,oBAAmB,qBAA
nB,EAAmB,KAAnB,E;;MAEJ,OAAW,UAAS,CAAb,GAAgB,wCAAO,IAAvB,GAAgC,MAAM,K;K;IAGjD,+B;
MAOoB,Q;MAFhB,UAAkB,G;MAClB,YAAiB,C;MACD,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OA
AO,O;QACP,oBAAmB,qBAAnB,EAAmB,KAAnB,E;;MAEJ,OAAW,UAAS,CAAb,GAAgB,wCAAO,IAAvB,GA
AgC,MAAM,K;K;IAGjD,2B;MAMoB,Q;MADhB,UAAe,C;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;Q
ACZ,YAAO,O;;MAEX,OAAO,G;K;IAGX,2B;MAMoB,Q;MADhB,UAAe,C;MACC,2B;MAAhB,OAAgB,cAAhB
,C;QAAgB,yB;QACZ,YAAO,O;;MAEX,OAAO,G;K;IAGX,2B;MAMoB,Q;MADhB,UAAe,C;MACC,2B;MAAhB
,OAAgB,cAAhB,C;QAAgB,yB;QACZ,YAAO,OAAP,I;;MAEJ,OAAO,G;K;IAGX,2B;MAMoB,Q;MADhB,Y;MA
CgB,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,cAAO,OAAP,C;;MAEJ,OAAO,G;K;IAGX,2B;MAMoB,
Q;MADhB,UAAiB,G;MACD,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,O;;MAEX,OAAO,G;K;I
AGX,2B;MAMoB,Q;MADhB,UAAkB,G;MACF,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,O;;M
AEX,OAAO,G;K;IGn1GX,uC;MAOI,OAAO,SAAM,CAAN,EAAS,SAAM,CAAN,EAAS,CAAT,EAAY,UAAZ,C
AAT,EAAkC,UAAlC,C;K;IAGX,oC;MAOI,OAAW,UAAW,SAAQ,CAAR,EAAW,CAAX,CAAX,IAA4B,CAAh
C,GAAmC,CAAnC,GAA0C,C;K;IAmDrD,wC;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,Q
AAA,KAAV,M;QAAiB,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;
MAC3D,OAAO,G;K;IA+GX,uC;MAOI,OAAO,SAAM,CAAN,EAAS,SAAM,CAAN,EAAS,CAAT,EAAY,UAAZ
,CAAT,EAAkC,UAAlC,C;K;IAGX,oC;MAOI,OAAW,UAAW,SAAQ,CAAR,EAAW,CAAX,CAAX,IAA4B,CAA
hC,GAAmC,CAAnC,GAA0C,C;K;IAmDrD,wC;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,Q
AAA,KAAV,M;QAAiB,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;
MAC3D,OAAO,G;K;oGCnXX,yB;MAAA,iE;MAAA,uC;QASW,Q;QAAA,+B;;UAYS,U;UAAA,SjB4UoE,iBAA
Q,W;UiB5U5F,OAAgB,gBAAhB,C;YAAgB,2B;YACZ,aAbwB,SAaX,CAAU,OAAV,C;YACb,IAAI,cAAJ,C;cAC
I,8BAAO,M;cAAP,gC;;UAGR,8BAAO,I;;;QAlBA,kC;QAAA,iB;UAAmC,MAAM,gCAAuB,4DAAvB,C;SAAhD,
OAAO,I;O;KATX,C;gHAYA,gC;MASoB,Q;MAAA,OAAA,SjB4UoE,QAAQ,W;MiB5U5F,OAAgB,cAAhB,C;Q
AAgB,yB;QACZ,aAAa,UAAU,OAAV,C;QACb,IAAI,cAAJ,C;UACI,OAAO,M;;MAGf,OAAO,I;K;IAGX,6B;MA
II,IAAI,mBAAQ,CAAZ,C;QACI,OAAO,W;MACX,eAAe,iBAAQ,W;MACvB,IAAI,CAAC,QAAS,UAAd,C;QAC
I,OAAO,W;MACX,YAAY,QAAS,O;MACrB,IAAI,CAAC,QAAS,UAAd,C;QACI,OAAO,OjB8PiD,SiB9P1C,KjB
8P+C,IAAL,EiB9P1C,KjB8PoD,MAAV,CiB9PjD,C;OACX,aAAa,iBAAsB,cAAtB,C;MACb,MAAO,WjB4PqD,Si
B5PjD,KjB4PsD,IAAL,EiB5PjD,KjB4P2D,MAAV,CiB5PrD,C;;QAEwB,kBAAhB,QAAS,O;QAApB,MAAO,WjB
0PiD,SAAK,eAAL,EAAU,iBAAV,CiB1PjD,C;;MACO,QAAT,QAAS,W;MAClB,OAAO,M;K;uFAGX,yB;MAAA
,+D;MAsBA,gD;MAtBA,uC;QAMW,kBAAU,gB;QAoBD,Q;QAAA,OjBqRoE,iBAAQ,W;QiBrR5F,OAAgB,cAA
hB,C;UAAgB,yB;UACZ,WArB6B,SAqBlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAtBhB,OA
wBO,W;O;KA9BX,C;uFASA,yB;MAAA,+D;MAwBA,gD;MAxBA,uC;QAUW,kBAAU,gB;QAsBD,Q;QAAA,Oj
BsQoE,iBAAQ,W;QiBtQ5F,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAvB6B,SAuBlB,CAAU,OAAV,C;UACC,O
AAZ,WAAY,EAAO,IAAP,C;;QAxBhB,OA0BO,W;O;KApCX,C;2FAaA,yB;MAAA,gD;MAAA,oD;QAIoB,Q;QA
AA,OAAA,SjBqRoE,QAAQ,W;QiBrR5F,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAAW,UAAU,OAAV,C;UACC
,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KARX,C;2FAWA,yB;MAAA,gD;MAAA,oD;QAQoB,Q;Q
AAA,OAAA,SjBsQoE,QAAQ,W;QiBtQ5F,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAAW,UAAU,OAAV,C;UAC
C,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KAZX,C;8EAeA,yB;MAAA,gE;MAAA,uC;QAOW,kBA
AM,eAAa,cAAb,C;QA2BA,Q;QAAA,OjB6NuE,iBAAQ,W;QiB7N5F,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,W
A5BiB,SA4Bb,CAAU,IAAV,CAAJ,C;;QA5BhB,OA6BO,W;O;KApCX,C;4FAUA,yB;MAAA,+D;MAAA,uC;QA

OW,kBAAa,gB;QA4EJ,Q;QAAA,OjBkKoE,iBAAQ,W;QiBlK5F,OAAgB,cAAhB,C;UAAgB,yB;UApEK,U;UAA
A,cARe,SAQf,CAoEQ,OApER,W;YAAsC,6B;;QAR3D,OASO,W;O;KAhBX,C;gGAUA,yB;MAAA,oD;QAyEoB,
Q;QAAA,OjBkKoE,iBAAQ,W;QiBlK5F,OAAgB,cAAhB,C;UAAgB,yB;UApEK,U;UAAA,wBAoEQ,OApER,W;
YAAsC,6B;;QAC3D,OAAO,W;O;KANX,C;kFASA,6C;MAKiB,Q;MAAA,OAAA,SjB6NuE,QAAQ,W;MiB7N5F,
OAAa,cAAb,C;QAAa,sB;QACT,WAAY,WAAI,UAAU,IAAV,CAAJ,C;;MAChB,OAAO,W;K;8EAGX,gC;MAOo
B,Q;MADhB,IAAI,mBAAJ,C;QAAe,OAAO,I;MACN,OAAA,SjBiNoE,QAAQ,W;MiBjN5F,OAAgB,cAAhB,C;Q
AAgB,yB;QAAM,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,OAAO,K;;MACtD,OAAO,I;K;IAGX,2B;MAMI,
OAAO,CAAC,mB;K;+EAGZ,gC;MAOoB,Q;MADhB,IAAI,mBAAJ,C;QAAe,OAAO,K;MACN,OAAA,SjB6LoE,
QAAQ,W;MiB7L5F,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,I;;MA
CrD,OAAO,K;K;mFAGX,qB;MAKI,OAAO,c;K;mFAGX,gC;MAMoB,Q;MAFhB,IAAI,mBAAJ,C;QAAe,OAAO,
C;MACCtB,YAAY,C;MACI,OAAA,SjB2KoE,QAAQ,W;MiB3K5F,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,U
AAU,OAAV,CAAJ,C;UAAwB,qB;;MAC9C,OAAO,K;K;sFAGX,6B;MAKoB,Q;MAAA,OAAA,SjBkKoE,QAAQ
,W;MiBlK5F,OAAgB,cAAhB,C;QAAgB,yB;QAAM,OAAO,OAAP,C;;K;kFAG1B,+B;MAemB,kBAAR,iB;MAA
Q,sB;;QJkoDf,eAAe,sB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,qBAAO,I;UAAP,uB;SACzB,cAAc,QAAS,O
;QACvB,IAAI,CAAC,QAAS,UAAd,C;UAAyB,qBAAO,O;UAAP,uB;SACzB,eIjpDmB,QJipDJ,CAAS,OAAT,C;;
UAEX,QAAQ,QAAS,O;UACjB,QIppDe,QJopDP,CAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,
UAAU,C;YACV,WAAW,C;;QAED,QAAT,QAAS,W;QAClB,qBAAO,O;;;MI1pDP,yB;K;8FAGJ,+B;MAQmB,kB
AAR,iB;MAAQ,sB;;QJkoDf,eAAe,sB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,qBAAO,I;UAAP,uB;SACzB,c
AAc,QAAS,O;QACvB,IAAI,CAAC,QAAS,UAAd,C;UAAyB,qBAAO,O;UAAP,uB;SACzB,eItoD2B,QJsoDZ,CA
AS,OAAT,C;;UAEX,QAAQ,QAAS,O;UACjB,QIzoDuB,QJyoDf,CAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,K
AAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAED,QAAT,QAAS,W;QAClB,qBAAO,O;;;MI/oDP,yB;K;mFAGJ,y
B;MJ+oDA,sE;MF/yDA,iB;MMgKA,sC;QJ4pDI,eI/oDO,iBJ+oDQ,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAy
B,MAAM,6B;QAC/B,eIjpDqB,QJipDN,CAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QInpDiB,
QJmpDT,CAAS,QAAS,OAAlB,C;UACR,WFzzDG,MAAO,KEyzDO,QFzzDP,EEyzDiB,CFzzDjB,C;;QMqKd,OJs
pDO,Q;O;KInqDX,C;mFAgBA,yB;MJspDA,sE;MFj1DA,iB;MM2LA,sC;QJmqDI,eItpDO,iBJspDQ,W;QACf,IAA
I,CAAC,QAAS,UAAd,C;UAAyB,MAAM,6B;QAC/B,eIxpDqB,QJwpDN,CAAS,QAAS,OAAlB,C;QACf,OAAO,
QAAS,UAAhB,C;UACI,QI1pDiB,QJ0pDT,CAAS,QAAS,OAAlB,C;UACR,WF31DG,MAAO,KE21DO,QF31DP,
EE21DiB,CF31DjB,C;;QMgMd,OJ6pDO,Q;O;KI1qDX,C;mFAgBA,yB;MJ6pDA,sE;MI7pDA,sC;QJwqDI,eI7pDO
,iBJ6pDQ,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,MAAM,6B;QAC/B,eI/pDqB,QJ+pDN,CAAS,QAAS,O
AAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QIjqDiB,QJiqDT,CAAS,QAAS,OAAlB,C;UACR,IAAI,2BAAW,
CAAX,KAAJ,C;YACI,WAAW,C;;QInqDnB,OJsqDO,Q;O;KIjrDX,C;+FAcA,yB;MN9MA,iB;MM8MA,sC;QAW
mB,kBAAR,iB;QAAQ,sB;;UJsqDf,eAAe,sB;UACf,IAAI,CAAC,QAAS,UAAd,C;YAAyB,qBAAO,I;YAAP,uB;W
ACzB,eIxqD2B,QJwqDZ,CAAS,QAAS,OAAlB,C;UACf,OAAO,QAAS,UAAhB,C;YACI,QI1qDuB,QJ0qDf,CAA
S,QAAS,OAAlB,C;YACR,WF53DG,MAAO,KE43DO,QF53DP,EE43DiB,CF53DjB,C;;UE83Dd,qBAAO,Q;;;QI7
qDP,yB;O;KAXJ,C;+FAcA,yB;MNvOA,iB;MMuOA,sC;QAWmB,kBAAR,iB;QAAQ,sB;;UJ6qDf,eAAe,sB;UACf
,IAAI,CAAC,QAAS,UAAd,C;YAAyB,qBAAO,I;YAAP,uB;WACzB,eI/qD2B,QJ+qDZ,CAAS,QAAS,OAAlB,C;U
ACf,OAAO,QAAS,UAAhB,C;YACI,QIjrDuB,QJirDf,CAAS,QAAS,OAAlB,C;YACR,WF55DG,MAAO,KE45DO
,QF55DP,EE45DiB,CF55DjB,C;;UE85Dd,qBAAO,Q;;;QIprDP,yB;O;KAXJ,C;+FAcA,+B;MASmB,kBAAR,iB;M
AAQ,sB;;QJorDf,eAAe,sB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,qBAAO,I;UAAP,uB;SACzB,eItrD2B,QJs
rDZ,CAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QIxrDuB,QJwrDf,CAAS,QAAS,OAAlB,C;U
ACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,qBAAO,Q;;;MI7rDP,yB;K;0FAGJ,yB;MJ6rDA,s
E;MI7rDA,kD;QJwsDI,eI7rDO,iBJ6rDQ,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,MAAM,6B;QAC/B,eI/r
DqC,QJ+rDtB,CAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QIjsDiC,QJisDzB,CAAS,QAAS,O
AAlB,C;UACR,IIlsDqB,UJksDN,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;QIn
sDnB,OJssDO,Q;O;KIjtDX,C;sGAcA,2C;MASmB,kBAAR,iB;MAAQ,0B;;QJssDf,eAAe,sB;QACf,IAAI,CAAC,Q
AAS,UAAd,C;UAAyB,yBAAO,I;UAAP,2B;SACzB,eIxsD2C,QJwsD5B,CAAS,QAAS,OAAlB,C;QACf,OAAO,Q
AAS,UAAhB,C;UACI,QI1sDuC,QJ0sD/B,CAAS,QAAS,OAAlB,C;UACR,II3sD2B,UJ2sDZ,SAAQ,QAAR,EAAk
B,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;QAGnB,yBAAO,Q;;;MI/sDP,6B;K;sFAGJ,yB;MAOA,8D;

MAPA,wC;QAII,OASe,cAAR,iBAAQ,EATM,UASN,C;O;KAbnB,C;kGAOA,yB;MAAA,8D;MAAA,wC;QAMI,OAAe,cAAR,iBAAQ,EAAc,UAAd,C;O;KANnB,C;kFASA,+B;MAcmB,kBAAR,iB;MAAQ,sB;;QJwxDf,eAAe,sB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,qBAAO,I;UAAP,uB;SACzB,cAAc,QAAS,O;QACvB,IAAI,CAAC,QAAS,UAAd,C;UAAyB,qBAAO,O;UAAP,uB;SACzB,eIvyDmB,QJuyDJ,CAAS,OAAT,C;;UAEX,QAAQ,QAAS,O;UACjB,QI1yDe,QJ0yDP,CAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAED,QAAT,QAAS,W;QAClB,qBAAO,O;;;MIhzDP,yB;K;8FAGJ,+B;MAQmB,kBAAR,iB;MAAQ,sB;;QJwxDf,eAAe,sB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,qBAAO,I;UAAP,uB;SACzB,cAAc,QAAS,O;QACvB,IAAI,CAAC,QAAS,UAAd,C;UAAyB,qBAAO,O;UAAP,uB;SACzB,eI5xD2B,QJ4xDZ,CAAS,OAAT,C;;UAEX,QAAQ,QAAS,O;UACjB,QI/xDuB,QJ+xDf,CAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAED,QAAT,QAAS,W;QAClB,qBAAO,O;;;MIryDP,yB;K;mFAGJ,yB;MJqyDA,sE;MFl4DA,iB;MM6FA,sC;QJkzDI,eIryDO,iBJqyDqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eIvyDqB,QJuyDrB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,QIzyDiB,QJyyDjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WF54DG,MAAO,KE44DjB,O,QF54DiB,DE44DjB,DiB,CF54DiB,DjB,C;;QMkGd,OJ4yDO,Q;O;KIzzDX,C;mFAGJ,yB;MJ4yDA,sE;MFp6DA,iB;MMwHA,sC;QJyzDI,eI5yDO,iBJ4yDqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eI9yDqB,QJ8yDrB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,QIhzDiB,QJgzDjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WF96DG,MAAO,KE86DjB,O,QF96DiB,DE86DjB,DiB,C;;QM6Hd,OJmzDO,Q;O;KIh0DX,C;mFAGJ,yB;MJmzDA,sE;MInzDA,sC;QJ8zDI,eIjzDO,iBJizDqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eInzDqB,QJmzDrB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,QIrzDiB,QJqzDjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WFl7DG,MAAO,KEk7DjB,O,QFl7DiB,DEk7DjB,DiB,C;;QMkId,OJ8zDO,Q;O;KIr0DX,C;mFAGJ,yB;MJ8zDA,sE;MIrzDA,sC;QJu0DI,eI1zDO,iBJ0zDqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eIxzDqB,QJwzDrB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,QI1zDiB,QJ0zDjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WFr8DG,MAAO,KEq8DjB,O,QFr8DiB,DEq8DjB,DiB,C;;QMuJd,OJu0DO,Q;O;KI10DX,C;mFAGJ,yB;MJu0DA,sE;MIv0DA,sC;QJg1DI,eIn0DO,iBJm0DqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eI70DqB,QJ60DrB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,QIn0DiB,QJm0DjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WFx9DG,MAAO,KEw9DjB,O,QFx9DiB,DEw9DjB,DiB,C;;QM4Kd,OJg1DO,Q;O;KIn1DX,C;mFAGJ,yB;MJg1DA,sE;MIh1DA,sC;QJy1DI,eI50DO,iBJ40DqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eIt1DqB,QJs1DrB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,QI50DiB,QJ40DjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WF3+DG,MAAO,KE2+DjB,O,QF3+DiB,DE2+DjB,DiB,C;;QMiLd,OJy1DO,Q;O;KI51DX,C;mFAGJ,yB;MJy1DA,sE;MIz1DA,sC;QJk2DI,eIr1DO,iBJq1DqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eI/1DqB,QJ+1DrB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,QIr1DiB,QJq1DjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WFl/DG,MAAO,KEk/DjB,O,QFl/DiB,DEk/DjB,DiB,C;;QMsMd,OJk2DO,Q;O;KIr2DX,C;mFAGJ,yB;MJk2DA,sE;MIl2DA,sC;QJ22DI,eI92DO,iBJ82DqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eIx2DqB,QJw2DrB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,QI92DiB,QJ82DjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WFzgEG,MAAO,KEygEjB,O,QFzgEiB,DEygEjB,DiB,C;;QM2Nd,OJ22DO,Q;O;KI92DX,C;mFAGJ,yB;MJ22DA,sE;MI32DA,sC;QJo3DI,eIv3DO,iBJu3DqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eIj3DqB,QJi3DrB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,QIv3DiB,QJu3DjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WFhhEG,MAAO,KEghEjB,O,QFhhEiB,DEghEjB,DiB,C;;QMgOd,OJo3DO,Q;O;KIv3DX,C;mFAGJ,yB;MJo3DA,sE;MIp3DA,sC;QJ63DI,eIh3DO,iBJg3DqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eI13DqB,QJ03DrB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,QIh3DiB,QJg3DjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WFvhEG,MAAO,KEuhEjB,O,QFvhEiB,DEuhEjB,DiB,C;;QMqPd,OJ63DO,Q;O;KIh4DX,C;mFAGJ,yB;MJ63DA,sE;MI73DA,sC;QJs4DI,eIz3DO,iBJy3DqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eIn4DqB,QJm4DrB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,QIz3DiB,QJy3DjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WF9iEG,MAAO,KE8iEjB,O,QF9iEiB,DE8iEjB,DiB,C;;QM0Qd,OJs4DO,Q;O;KIz4DX,C;mFAGJ,yB;MJs4DA,sE;MIt4DA,sC;QJ+4DI,eIl4DO,iBJk4DqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eI54DqB,QJ44DrB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,QIl4DiB,QJk4DjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WFrjEG,MAAO,KEqjEjB,O,QFrjEiB,DEqjEjB,DiB,C;;QM2Rd,OJ+4DO,Q;O;KIl5DX,C;mFAGJ,yB;MJ+4DA,sE;MI/4DA,sC;QJw5DI,eI34DO,iBJ24DqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eIr5DqB,QJq5DrB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,QI34DiB,QJ24DjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WF5kEG,MAAO,KE4kEjB,O,QF5kEiB,DE4kEjB,DiB,C;;QMiSd,OJw5DO,Q;O;KI35DX,C;mFAGJ,yB;MJw5DA,sE;MIx5DA,sC;QJi6DI,eIp5DO,iBJo5DqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eI95DqB,QJ85DrB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,QIp5DiB,QJo5DjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WFnmEG,MAAO,KEmmEjB,O,QFnmEiB,DEmmEjB,DiB,C;;QMuTd,OJi6DO,Q;O;KIp6DX,C;mFAGJ,yB;MJi6DA,sE;MIj6DA,sC;QJ06DI,eI75DO,iBJ65DqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eIv6DqB,QJu6DrB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,QI75DiB,QJ65DjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WF1nEG,MAAO,KE0nEjB,O,QF1nEiB,DE0nEjB,DiB,C;;QM6Ud,OJ06DO,Q;O;KI76DX,C;mFAGJ,yB;MJ06DA,sE;MI16DA,sC;QJm7DI,eIt6DO,iBJs6DqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eIh7DqB,QJg7DrB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,QIt6DiB,QJs6DjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WFjpEG,MAAO,KEipEjB,O,QFjpEiB,DEipEjB,DiB,C;;QMmWd,OJm7DO,Q;O;KIt7DX,C;mFAGJ,yB;MJm7DA,sE;MIn7DA,sC;QJ47DI,eI/6DO,iBJ+6DqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eIz7DqB,QJy7DrB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,QI/6DiB,QJ+6DjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WFxqEG,MAAO,KEwqEjB,O,QFxqEiB,DEwqEjB,DiB,C;;QMyXd,OJ47DO,Q;O;KI/7DX,C;mFAGJ,yB;MJ47DA,sE;MI57DA,sC;QJq8DI,eIx7DO,iBJw7DqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eIl8DqB,QJk8DrB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,QIx7DiB,QJw7DjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WF/rEG,MAAO,KE+rEjB,O,QF/rEiB,DE+rEjB,DiB,C;;QMqZd,OJq8DO,Q;O;KIx8DX,C;mFAGJ,yB;MJq8DA,sE;MIr8DA,sC;QJ88DI,eIj8DO,iBJi8DqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eI38DqB,QJ28DrB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,QIj8DiB,QJi8DjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WFttEG,MAAO,KEstEjB,O,QFttEiB,DEstEjB,DiB,C;;QM2ad,OJ88DO,Q;O;KIj9DX,C;mFAGJ,yB;MJ88DA,sE;MI98DA,sC;QJu9DI,eI18DO,iBJ08DqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eIp9DqB,QJo9DrB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,QI18DiB,QJ08DjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WF7uEG,MAAO,KE6uEjB,O,QF7uEiB,DE6uEjB,DiB,C;;QMibd,OJu9DO,Q;O;KI19DX,C;mFAGJ,yB;MJu9DA,sE;MIv9DA,sC;QJg+DI,eIn9DO,iBJm9DqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eI79DqB,QJ69DrB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,QIn9DiB,QJm9DjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WFpwEG,MAAO,KEowEjB,O,QFpwEiB,DEowEjB,DiB,C;;QMmcd,OJg+DO,Q;O;KIn+DX,C;mFAGJ,yB;MJg+DA,sE;MIh+DA,sC;QJy+DI,eI59DO,iBJ49DqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eIt+DqB,QJs+DrB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,QI59DiB,QJ49DjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WF3xEG,MAAO,KE2xEjB,O,QF3xEiB,DE2xEjB,DiB,C;;QMqdd,OJy+DO,Q;O;KI5+DX,C;mFAGJ,yB;MJy+DA,sE;MIz+DA,sC;QJk/DI,eIr+DO,iBJq+DqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eI/+DqB,QJ++DrB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,QIr+DiB,QJq+DjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WFlzEG,MAAO,KEkzEjB,O,QFlzEiB,DEkzEjB,DiB,C;;QMudd,OJk/DO,Q;O;KIr/DX,C;mFAGJ,yB;MJk/DA,sE;MIl/DA,sC;QJ2/DI,eI9+DO,iBJ8+DqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eIx/DqB,QJw/DrB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,Q9B,eI9+DiB,QJ8+DjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WF/0EG,MAAO,KE+0EjB,O,QF/0EiB,DE+0EjB,DiB,C;;QMyfd,OJ2/DO,Q;O;KI9/DX,C;mFAGJ,yB;MJ2/DA,sE;MI3/DA,sC;QJogEI,eIv/DO,iBJu/DqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eIjgEqB,QJigErB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,Q9B,eIv/DiB,QJu/DjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WFx2EG,MAAO,KEw2EjB,O,QFx2EiB,DEw2EjB,DiB,C;;QM6gBd,OJogEO,Q;O;KIvgEX,C;mFAGJ,yB;MJogEA,sE;MIpgEA,sC;QJ6gEI,eIhgEO,iBJggEqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eI1gEqB,QJ0gErB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,Q9B,eIhgEiB,QJggEjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WFj4EG,MAAO,KEi4EjB,O,QFj4EiB,DEi4EjB,DiB,C;;QMmiBd,OJ6gEO,Q;O;KIhhEX,C;mFAGJ,yB;MJ6gEA,sE;MI7gEA,sC;QJshEI,eIzgEO,iBJygEqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eInhEqB,QJmhErB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,Q9B,eIzgEiB,QJygEjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WF15EG,MAAO,KE05EjB,O,QF15EiB,DE05EjB,DiB,C;;QMyjBd,OJshEO,Q;O;KIzhEX,C;mFAGJ,yB;MJshEA,sE;MIthEA,sC;QJ+hEI,eIliEO,iBJkiEqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eI5hEqB,QJ4hErB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,Q9B,eIliEiB,QJkiEjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WFn6EG,MAAO,KEm6EjB,O,QFn6EiB,DEm6EjB,DiB,C;;QM+kBd,OJ+hEO,Q;O;KIliEX,C;mFAGJ,yB;MJ+hEA,sE;MI/hEA,sC;QJwiEI,eI3hEO,iBJ2hEqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eIriEqB,QJqiErB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,Q9B,eI3hEiB,QJ2hEjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WF57EG,MAAO,KE47EjB,O,QF57EiB,DE47EjB,DiB,C;;QMqmBd,OJwiEO,Q;O;KI3iEX,C;mFAGJ,yB;MJwiEA,sE;MIxiEA,sC;QJijEI,eIpiEO,iBJoiEqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eI9iEqB,QJ8iErB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,Q9B,eIpiEiB,QJoiEjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WFr8EG,MAAO,KEq8EjB,O,QFr8EiB,DEq8EjB,DiB,C;;QMymBd,OJijEO,Q;O;KIpjEX,C;mFAGJ,yB;MJijEA,sE;MIjjEA,sC;QJ0jEI,eI7iEO,iBJ6iEqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eIvjEqB,QJujErB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,Q9B,eI7iEiB,QJ6iEjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WF99EG,MAAO,KE89EjB,O,QF99EiB,DE89EjB,DiB,C;;QM6nBd,OJ0jEO,Q;O;KI7jEX,C;mFAGJ,yB;MJ0jEA,sE;MI1jEA,sC;QJmkEI,eItjEO,iBJsjEqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eIhkEqB,QJgkErB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,Q9B,eItjEiB,QJsjEjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WFv/EG,MAAO,KEu/EjB,O,QFv/EiB,DEu/EjB,DiB,C;;QMmpBd,OJmkEO,Q;O;KItkEX,C;mFAGJ,yB;MJmkEA,sE;MInkEA,sC;QJ4kEI,eI/jEO,iBJ+jEqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eIzkEqB,QJykErB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,Q9B,eI/jEiB,QJ+jEjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WFhhFG,MAAO,KEghFjB,O,QFhhFiB,DEghFjB,DiB,C;;QMyqBd,OJ4kEO,Q;O;KI/kEX,C;mFAGJ,yB;MJ4kEA,sE;MI5kEA,sC;QJqlEI,eIxkEO,iBJwkEqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eIllEqB,QJklErB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,Q9B,eIxkEiB,QJwkEjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WFzhFG,MAAO,KEyhFjB,O,QFzhFiB,DEyhFjB,DiB,C;;QM8rBd,OJqlEO,Q;O;KIxlEX,C;mFAGJ,yB;MJqlEA,sE;MIrlEA,sC;QJ8lEI,eIjlEO,iBJilEqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eI3lEqB,QJ2lErB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,Q9B,eIjlEiB,QJilEjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WFliFG,MAAO,KEkiFjB,O,QFliFiB,DEkiFjB,DiB,C;;QMmtBd,OJ8lEO,Q;O;KIjmEX,C;mFAGJ,yB;MJ8lEA,sE;MI9lEA,sC;QJumEI,eI1lEO,iBJ0lEqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eIpmEqB,QJomErB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,Q9B,eI1lEiB,QJ0lEjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WF3iFG,MAAO,KE2iFjB,O,QF3iFiB,DE2iFjB,DiB,C;;QMwuBd,OJumEO,Q;O;KI1mEX,C;mFAGJ,yB;MJumEA,sE;MIvmEA,sC;QJgnEI,eInmEO,iBJmmEqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eI7mEqB,QJ6mErB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,Q9B,eInmEiB,QJmmEjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WFpjFG,MAAO,KEojFjB,O,QFpjFiB,DEojFjB,DiB,C;;QM6vBd,OJgnEO,Q;O;KInnEX,C;mFAGJ,yB;MJgnEA,sE;MIhnEA,sC;QJynEI,eI5mEO,iBJ4mEqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eItnEqB,QJsnErB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,Q9B,eI5mEiB,QJ4mEjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WF7kFG,MAAO,KE6kFjB,O,QF7kFiB,DE6kFjB,DiB,C;;QMkxBd,OJynEO,Q;O;KI5nEX,C;mFAGJ,yB;MJynEA,sE;MIznEA,sC;QJkoEI,eIrnEO,iBJqnEqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eI/nEqB,QJ+nErB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,Q9B,eIrnEiB,QJqnEjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WFtlFG,MAAO,KEslFjB,O,QFtlFiB,DEslFjB,DiB,C;;QM4yBd,OJkoEO,Q;O;KIroEX,C;mFAGJ,yB;MJkoEA,sE;MIloEA,sC;QJ2oEI,eI9nEO,iBJ8nEqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eIxoEqB,QJwoErB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,Q9B,eI9nEiB,QJ8nEjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WF/mFG,MAAO,KE+mFjB,O,QF/mFiB,DE+mFjB,DiB,C;;QMm0Bd,OJ2oEO,Q;O;KI9oEX,C;mFAGJ,yB;MJ2oEA,sE;MI3oEA,sC;QJopEI,eIvoEO,iBJuoEqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eIjpEqB,QJipErB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,Q9B,eIvoEiB,QJuoEjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WFxnFG,MAAO,KEwnFjB,O,QFxnFiB,DEwnFjB,DiB,C;;QM40Bd,OJopEO,Q;O;KIvpEX,C;mFAGJ,yB;MJopEA,sE;MIppEA,sC;QJ6pEI,eIhpEO,iBJgpEqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eI1pEqB,QJ0pErB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,Q9B,eIhpEiB,QJgpEjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WFzoFG,MAAO,KEyoFjB,O,QFzoFiB,DEyoFjB,DiB,C;;QMq1Bd,OJ6pEO,Q;O;KIhqEX,C;mFAGJ,yB;MJ6pEA,sE;MI7pEA,sC;QJsqEI,eIzpEO,iBJypEqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eInqEqB,QJmqErB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,Q9B,eIzpEiB,QJypEjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WF1pFG,MAAO,KE0pFjB,O,QF1pFiB,DE0pFjB,DiB,C;;QM82Bd,OJsqEO,Q;O;KIzqEX,C;mFAGJ,yB;MJsqEA,sE;MItqEA,sC;QJ+qEI,eIlqEO,iBJkqEqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eI5qEqB,QJ4qErB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,Q9B,eIlqEiB,QJkqEjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WF3qFG,MAAO,KE2qFjB,O,QF3qFiB,DE2qFjB,DiB,C;;QMo4Bd,OJ+qEO,Q;O;KIlrEX,C;mFAGJ,yB;MJ+qEA,sE;MI/qEA,sC;QJwrEI,eI3qEO,iBJ2qEqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eIrrEqB,QJqrErB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,Q9B,eI3qEiB,QJ2qEjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WF5rFG,MAAO,KE4rFjB,O,QF5rFiB,DE4rFjB,DiB,C;;QM06Bd,OJwrEO,Q;O;KI3rEX,C;mFAGJ,yB;MJwrEA,sE;MIxrEA,sC;QJisEI,eIprEO,iBJorEqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eI9rEqB,QJ8rErB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,Q9B,eIprEiB,QJorEjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WF7sFG,MAAO,KE6sFjB,O,QF7sFiB,DE6sFjB,DiB,C;;QMi8Bd,OJisEO,Q;O;KIpsEX,C;mFAGJ,yB;MJisEA,sE;MIjsEA,sC;QJ0sEI,eI7rEO,iBJ6rEqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eIvsEqB,QJusErB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,Q9B,eI7rEiB,QJ6rEjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WF9tFG,MAAO,KE8tFjB,O,QF9tFiB,DE8tFjB,DiB,C;;QMs9Bd,OJ0sEO,Q;O;KI7sEX,C;mFAGJ,yB;MJ0sEA,sE;MI1sEA,sC;QJmtEI,eItsEO,iBJssEqB,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,MAAM,6B;QAAP,C/B,eIhtEqB,QJgtErB,CAAS,QAAT,C;QAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,Q9B,eItsEiB,QJssEjB,DAAS,CAAS,QAAS,OAAlB,C;QAAkB,QAAS,UAAU,C;QAAC,WFnvFG,MAAO,KEmvFjB,O,QFnvFiB,DEmvFjB,DiB,C;;QM2+Bd,OJmtEO,Q;O;KItsEX,C;mFAGJ,yB;MJmtEA,sE;MIntEA,sC;QJ4tEI,eI/sEO,iBJ+sEqB,W;QACf,IAAI,CAAC,

C;UAAA,OAAsB,S;;uBAAe,qBAAU,CAAV,C;UAAA,YAAe,SEiNc,WFjNM,CEiNN,CAff,c;UFlMnD,OG8MoD,
2BAAL,GAAkB,K;;QH9MxE,W;OAEJ,OAAuB,oBAAhB,wBAAgB,C;K;gFxBD3B,yB;MAAA,mC;MAAA,2C;M
AAA,4B;QAQI,OAAO,kBAAO,cAAP,C;O;KARX,C;gFAWA,yB;MAAA,mC;MAAA,2C;MAAA,4B;QAQI,OAA
O,kBAAO,cAAP,C;O;KARX,C;gFAWA,yB;MAAA,mC;MAAA,2C;MAAA,4B;QAQI,OAAO,kBAAO,cAAP,C;O
;KARX,C;IAWA,sC;;QAQQ,OAAc,QAAP,MAAO,EAAQ,SAAR,C;;QAChB,+C;UACE,MAAM,2BAAuB,CAAE
,QAAzB,C;;UAHV,O;;K;IAOJ,sC;;QAQQ,OAAc,SAAP,MAAO,EAAS,SAAT,C;;QAChB,+C;UACE,MAAM,2B
AAuB,CAAE,QAAzB,C;;UAHV,O;;K;IAOJ,sC;;QAQQ,OAAiD,OAA1C,MAAO,iBAAQ,e4BtCgB,I5BsCxB,EA
AoB,CAAA,c4BtCI,I5BsCJ,IAAY,CAAZ,IAApB,CAAmC,C;;QACnD,+C;UACE,MAAM,2BAAuB,CAAE,QAAz
B,C;;UAHV,O;;K;4FAOJ,yB;MAAA,mC;MAAA,uD;MAAA,4B;QAOI,OAAO,wBAAa,cAAb,C;O;KAPX,C;4FA
UA,yB;MAAA,mC;MAAA,uD;MAAA,4B;QAOI,OAAO,wBAAa,cAAb,C;O;KAPX,C;4FAUA,yB;MAAA,mC;M
AAA,uD;MAAA,4B;QAOI,OAAO,wBAAa,cAAb,C;O;KAPX,C;IAUA,4C;MAMI,IAAI,mBAAJ,C;QACI,OAAO,
I;MACX,OAAc,QAAP,MAAO,EAAQ,SAAR,C;K;IAGlB,4C;MAMI,IAAI,mBAAJ,C;QACI,OAAO,I;MACX,OA
Ac,SAAP,MAAO,EAAS,SAAT,C;K;IAGlB,4C;MAMI,IAAI,mBAAJ,C;QACI,OAAO,I;MACX,OAAiD,OAA1C,
MAAO,iBAAQ,e4BxGoB,I5BwG5B,EAAoB,CAAA,c4BxGQ,I5BwGR,IAAY,CAAZ,IAApB,CAAmC,C;K;mFA
GrD,8B;MAQI,OAAO,mBAAmB,2BAAS,OAAT,C;K;oFAG9B,8B;MAQI,OAAO,mBAAmB,2BAAS,OAAT,C;K
;oFAG9B,8B;MAQI,OAAO,mBAAmB,2BAAS,OAAT,C;K;IAG9B,uC;MAKI,OAAO,2BAAe,KAAf,C;K;IAGX,u
C;MAKI,OAAO,2BAAe,oBAAN,KAAM,CAAf,C;K;IAGX,uC;MAKI,OAAO,2BAAe,KAAf,C;K;IAGX,uC;MAO
I,OAAO,2BAAe,KAAf,C;K;IAGX,uC;MAOI,OAAO,2BAAe,KAAf,C;K;IAGX,uC;MgBzHW,ShBgIM,mBAAN,
KAAM,C;MAAb,OAA0C,UAAJ,GAAgB,2BAAS,EAAT,CAAhB,GAAkC,K;K;IAG5E,uC;MgBnIW,ShB0IM,kB
AAN,KAAM,C;MAAb,OAA2C,UAAJ,GAAgB,2BAAS,EAAT,CAAhB,GAAkC,K;K;IAG7E,uC;MgB7IW,ShBoJ
M,oBAAN,KAAM,C;MAAb,OAA2C,UAAJ,GAAgB,2BAAS,EAAT,CAAhB,GAAkC,K;K;IAG7E,uC;MgBvJW,S
hB8JM,qBAAN,KAAM,C;MAAb,OAA4C,UAAJ,GAAgB,2BAAS,EAAT,CAAhB,GAAkC,K;K;IAG9E,uC;MAKI
,OAAO,2BAAe,KAAf,C;K;IAGX,uC;MgBzKW,ShBgLM,mBAAN,KAAM,C;MAAb,OAA0C,UAAJ,GAAgB,2B
AAS,EAAT,CAAhB,GAAkC,K;K;IAG5E,uC;MgBnLW,ShB0LM,oBAAN,KAAM,C;MAAb,OAA2C,UAAJ,GAA
gB,2BAAS,EAAT,CAAhB,GAAkC,K;K;IAG7E,uC;MgB7LW,ShBoMM,oBAAN,KAAM,C;MAAb,OAA2C,UAA
J,GAAgB,2BAAS,EAAT,CAAhB,GAAkC,K;K;IAG7E,uC;MgBvMW,ShB8MM,qBAAN,KAAM,C;MAAb,OAA4
C,UAAJ,GAAgB,2BAAS,EAAT,CAAhB,GAAkC,K;K;IAG9E,uC;MAKI,OAAO,2BAAe,KAAf,C;K;IAGX,uC;M
AKI,OAAO,2BAAe,oBAAN,KAAM,CAAf,C;K;IAGX,uC;MgBjOW,ShBsOM,kBAAN,KAAM,C;MAAb,OAA2C
,UAAJ,GAAgB,2BAAS,EAAT,CAAhB,GAAkC,K;K;IAG7E,uC;MgBzOW,ShB8OM,mBAAN,KAAM,C;MAAb,
OAA4C,UAAJ,GAAgB,2BAAS,EAAT,CAAhB,GAAkC,K;K;IAG9E,uC;MAOI,OAAO,2BAAe,KAAf,C;K;IAGX
,uC;MAOI,OAAO,2BAAe,KAAf,C;K;IAGX,uC;MgBrQW,ShB0QM,iBAAN,KAAM,C;MAAb,OAA0C,UAAJ,G
AAgB,2BAAS,EAAT,CAAhB,GAAkC,K;K;IAG5E,uC;MgB7QW,ShBkRM,oBAAN,KAAM,C;MAAb,OAA2C,U
AAJ,GAAgB,2BAAS,EAAT,CAAhB,GAAkC,K;K;IAG7E,uC;MgBrRW,ShB0RM,qBAAN,KAAM,C;MAAb,OA
A4C,UAAJ,GAAgB,2BAAS,EAAT,CAAhB,GAAkC,K;K;IAG9E,uC;MAOI,OAAO,2BAAS,KAAM,WAAf,C;K;I
AGX,uC;MAOI,OAAO,2BAAS,KAAM,WAAf,C;K;IAGX,uC;MAKI,OAAO,2BAAe,KAAf,C;K;IAGX,uC;MAKI
,OAAO,2BAAe,oBAAN,KAAM,CAAf,C;K;IAGX,uC;MgBjUW,ShBsUM,oBAAN,KAAM,C;MAAb,OAA2C,UA
AJ,GAAgB,2BAAS,EAAT,CAAhB,GAAkC,K;K;IAG7E,uC;MAOI,OAAO,2BAAe,KAAf,C;K;IAGX,uC;MAOI,
OAAO,2BAAe,KAAf,C;K;IAGX,+B;MAOI,OAAO,sCAAe,yBAAgB,SAAhB,EAAyB,EAAzB,EAAkC,EAAlC,C;
K;IAG1B,iC;MAOI,OAAO,uCAAgB,yBAAgB,SAAhB,EAAyB,oBAAH,EAAG,CAAzB,M;K;IAG3B,iC;MAOI,O
AAO,sCAAe,yBAAqB,SAArB,EAAiC,EAAjC,EAA0C,EAA1C,C;K;IAG1B,iC;MAOI,OAAO,sCAAe,yBAAqB,S
AArB,EAAiC,EAAjC,EAA0C,EAA1C,C;K;IAG1B,iC;MAOI,OAAO,uCAAgB,yBAAgB,SAAhB,EAAsB,EAAtB,
EAA0B,EAA1B,C;K;IAG3B,iC;MAOI,OAAO,sCAAe,yBAAgB,SAAhB,EAAsB,EAAtB,EAA0B,EAA1B,C;K;IA
G1B,iC;MAOI,OAAO,uCAAgB,yBAAgB,SAAhB,EAAyB,oBAAH,EAAG,CAAzB,M;K;IAG3B,iC;MAOI,OAA
O,sCAAe,yBAAqB,SAArB,EAA8B,EAA9B,EAAkC,EAAlC,C;K;IAG1B,iC;MAOI,OAAO,sCAAe,yBAAqB,SAA
rB,EAA8B,EAA9B,EAAkC,EAAlC,C;K;IAG1B,iC;MAOI,OAAO,uCAAgB,yBAAqB,oBAAL,SAAK,CAArB,EA
A+B,EAA/B,M;K;IAG3B,iC;MAOI,OAAO,uCAAgB,yBAAgB,SAAhB,EAAsB,EAAtB,M;K;IAG3B,kC;MAOI,O
AAO,uCAAgB,yBAAqB,oBAAL,SAAK,CAArB,EAA+B,EAA/B,M;K;IAG3B,kC;MAOI,OAAO,uCAAgB,yBAA
qB,oBAAL,SAAK,CAArB,EAA+B,EAA/B,M;K;IAG3B,kC;MAOI,OAAO,sCAAe,yBAAgB,SAAhB,EAAyB,EA

AzB,EAAkC,EAAlC,C;K;IAG1B,kC;MAOI,OAAO,uCAAgB,yBAAgB,SAAhB,EAAyB,oBAAH,EAAG,CAAzB,
M;K;IAG3B,kC;MAOI,OAAO,sCAAe,yBAAqB,SAArB,EAAiC,EAAjC,EAA0C,EAA1C,C;K;IAG1B,kC;MAOI,
OAAO,sCAAe,yBAAqB,SAArB,EAAiC,EAAjC,EAA0C,EAA1C,C;K;IAG1B,+B;MAII,OAAO,sCAAe,yBAAgB,
cAAhB,EAAsB,eAAtB,EAA6B,CAAC,cAAD,IAA7B,C;K;IAG1B,gC;MAII,OAAO,uCAAgB,yBAAgB,cAAhB,E
AAsB,eAAtB,EAA8B,cAAD,aAA7B,C;K;IAG3B,gC;MAII,OAAO,uCAAgB,yBAAgB,cAAhB,EAAsB,eAAtB,E
AA6B,CAAC,cAAD,IAA7B,C;K;IAG3B,+B;MAII,oBAAoB,OAAO,CAA3B,EAA8B,IAA9B,C;MACA,OAAO,s
CAAe,yBAAgB,eAAhB,EAAuB,cAAvB,EAAiC,SAAK,KAAL,GAAY,CAAhB,GAAmB,IAAnB,GAA6B,CAAC,
IAAD,IAA1D,C;K;IAG1B,iC;MAII,oBAAoB,kBAAO,CAA3B,EAA8B,IAA9B,C;MACA,OAAO,uCAAgB,yBAA
gB,eAAhB,EAAuB,cAAvB,EAAiC,SAAK,KAAL,cAAY,CAAhB,GAAmB,IAAnB,GAA8B,IAAD,aAA1D,C;K;I
AG3B,iC;MAII,oBAAoB,OAAO,CAA3B,EAA8B,IAA9B,C;MACA,OAAO,uCAAgB,yBAAgB,eAAhB,EAAuB,c
AAvB,EAAiC,SAAK,KAAL,GAAY,CAAhB,GAAmB,IAAnB,GAA6B,CAAC,IAAD,IAA1D,C;K;IAG3B,sC;MA
CI,OAAmB,IAAR,8BAAgC,GAApC,GAAiE,OAAL,SAAK,CAAjE,GAA+E,I;K;IAG1F,wC;MACI,OAAW,mEA
AJ,GAAmE,OAAL,SAAK,SAAnE,GAAiF,I;K;IAG5F,wC;MACI,OAAW,YAAQ,aAAA,sCAAe,UAAf,EAA0B,s
CAAe,UAAzC,CAAR,YAAJ,GAAqE,OAAL,SAAK,CAArE,GAAmF,I;K;IAG9F,wC;MACI,OAAmB,UAAA,sCA
Ae,UAAf,EAA2B,sCAAe,UAA1C,CAAR,4BAAJ,GAA+E,OAAR,YAAL,SAAK,CAAQ,CAA/E,GAA6F,I;K;IAG
xG,wC;MACI,OAAmB,UAAA,sCAAe,UAAf,EAA0B,sCAAe,UAAzC,CAAR,4BAAJ,GAA6E,OAAR,YAAL,SA
AK,CAAQ,CAA7E,GAA2F,I;K;IAGtG,qC;MACI,OAAW,iFAAJ,GAA4D,SAAK,QAAjE,GAA8E,I;K;IAGzF,uC;
MACI,OAAmB,UAAc,WAAd,EAAwC,UAAxC,CAAR,4BAAJ,GAAqE,YAAL,SAAK,CAArE,GAAkF,I;K;IAG7
F,uC;MACI,OAAmB,UAAc,WAAd,EAAuC,UAAvC,CAAR,4BAAJ,GAAmE,YAAL,SAAK,CAAnE,GAAgF,I;K;
IAG3F,sC;MACI,OAAmB,UAAe,mCAAf,EAA0C,mCAA1C,CAAR,4BAAJ,GAAuE,uBAAL,SAAK,CAAvE,GA
AqF,I;K;IAGhG,wC;MACI,OAAmB,UAAe,mCAAf,EAAyC,mCAAzC,CAAR,4BAAJ,GAAqE,uBAAL,SAAK,C
AArE,GAAmF,I;K;IAG9F,uC;MACI,OAAmB,MAAR,8BAAiC,KAArC,GAAmE,QAAL,SAAK,CAAnE,GAAkF,
I;K;IAG7F,yC;MACI,OAAW,uEAAJ,GAAqE,QAAL,SAAK,SAArE,GAAoF,I;K;IAG/F,yC;MACI,OAAmB,UAA
A,uCAAgB,UAAhB,EAA4B,uCAAgB,UAA5C,CAAR,4BAAJ,GAAiF,QAAR,YAAL,SAAK,CAAQ,CAAjF,GAA
gG,I;K;IAG3G,yC;MACI,OAAmB,UAAA,uCAAgB,UAAhB,EAA2B,uCAAgB,UAA3C,CAAR,4BAAJ,GAA+E,
QAAR,YAAL,SAAK,CAAQ,CAA/E,GAA8F,I;K;IAGzG,8B;MAMI,OAAO,wBAAY,EAAa,GAAH,CAAG,IAAz
B,C;K;IAGX,gC;MAMI,OAAO,kBAAY,oBAAH,EAAG,CAAc,8BAAH,CAAG,EAA1B,C;K;IAGX,gC;MAMI,O
AAO,aAAK,SAAL,EAAoB,EAAa,GAAH,CAAG,IAAjC,C;K;IAGX,gC;MAMI,OAAO,aAAK,SAAL,EAAoB,EA
Aa,GAAH,CAAG,IAAjC,C;K;IAGX,gC;MAMI,IAAI,MAAM,CAAV,C;QAAoB,OAAO,iCAAU,M;MACrC,OAA
O,yBAAiB,OAAR,EAAQ,GAAH,CAAG,CAAjB,C;K;IAGX,gC;MAMI,IAAI,MAAM,WAAV,C;QAAyB,OAAO,
gCAAS,M;MACzC,OAAO,wBAAS,EAAQ,GAAH,CAAG,IAAjB,C;K;IAGX,gC;MAMI,OAAO,kBAAY,oBAAH,
EAAG,CAAc,8BAAH,CAAG,EAA1B,C;K;IAGX,gC;MAMI,IAAI,MAAM,WAAV,C;QAAyB,OAAO,gCAAS,M;
MACzC,OAAO,aAAK,SAAL,EAAiB,EAAQ,GAAH,CAAG,IAAzB,C;K;IAGX,gC;MAMI,IAAI,MAAM,WAAV,
C;QAAyB,OAAO,gCAAS,M;MACzC,OAAO,aAAK,SAAL,EAAiB,EAAQ,GAAH,CAAG,IAAzB,C;K;IAGX,gC;
MAMI,IAAI,iDAAJ,C;QAA0B,OAAO,iCAAU,M;MAC3C,OAAY,oBAAL,SAAK,CAAL,SAAkB,EAAQ,8BAAH
,CAAG,EAA1B,C;K;IAGX,gC;MAMI,IAAI,iDAAJ,C;QAA0B,OAAO,iCAAU,M;MAC3C,OAAO,kBAAS,EAAQ
,8BAAH,CAAG,EAAjB,C;K;IAGX,iC;MAMI,IAAI,iDAAJ,C;QAA0B,OAAO,iCAAU,M;MAC3C,OAAY,oBAA
L,SAAK,CAAL,SAAkB,EAAQ,8BAAH,CAAG,EAA1B,C;K;IAGX,iC;MAMI,IAAI,iDAAJ,C;QAA0B,OAAO,iC
AAU,M;MAC3C,OAAY,oBAAL,SAAK,CAAL,SAAkB,EAAQ,8BAAH,CAAG,EAA1B,C;K;IAGX,iC;MAMI,O
AAO,wBAAY,EAAa,GAAH,CAAG,IAAzB,C;K;IAGX,iC;MAMI,OAAO,kBAAY,oBAAH,EAAG,CAAc,8BAAH
,CAAG,EAA1B,C;K;IAGX,iC;MAMI,OAAO,aAAK,SAAL,EAAoB,EAAa,GAAH,CAAG,IAAjC,C;K;IAGX,iC;
MAMI,OAAO,aAAK,SAAL,EAAoB,EAAa,GAAH,CAAG,IAAjC,C;K;IAGX,gD;MAQI,OAAW,4BAAO,YAAP,
KAAJ,GAAyB,YAAzB,GAA2C,S;K;IAGtD,kD;MAQI,OAAW,YAAO,YAAX,GAAyB,YAAzB,GAA2C,S;K;IAG
tD,kD;MAQI,OAAW,YAAO,YAAX,GAAyB,YAAzB,GAA2C,S;K;IAGtD,kD;MAQI,OAAW,YAAO,YAAX,GA
AyB,YAAzB,GAA2C,S;K;IAGtD,kD;MAQI,OAAW,0BAAO,YAAP,KAAJ,GAAyB,YAAzB,GAA2C,S;K;IAGtD
,kD;MAQI,OAAW,YAAO,YAAX,GAAyB,YAAzB,GAA2C,S;K;IAGtD,kD;MAQI,OAAW,YAAO,YAAX,GAAy
B,YAAzB,GAA2C,S;K;IAGtD,+C;MAQI,OAAW,4BAAO,YAAP,KAAJ,GAAyB,YAAzB,GAA2C,S;K;IAGtD,iD
;MAQI,OAAW,YAAO,YAAX,GAAyB,YAAzB,GAA2C,S;K;IAGtD,iD;MAQI,OAAW,YAAO,YAAX,GAAyB,Y

AAzB,GAA2C,S;K;IAGtD,iD;MAQI,OAAW,YAAO,YAAX,GAAyB,YAAzB,GAA2C,S;K;IAGtD,iD;MAQI,OA
AW,0BAAO,YAAP,KAAJ,GAAyB,YAAzB,GAA2C,S;K;IAGtD,iD;MAQI,OAAW,YAAO,YAAX,GAAyB,YAA
zB,GAA2C,S;K;IAGtD,iD;MAQI,OAAW,YAAO,YAAX,GAAyB,YAAzB,GAA2C,S;K;IAGtD,yD;MAQI,IAAI,i
BAAiB,IAAjB,IAAyB,iBAAiB,IAA9C,C;QACI,IAAI,+BAAe,YAAf,KAAJ,C;UAAiC,MAAM,gCAAyB,6DAAiD
,YAAjD,wCAAoF,YAApF,OAAzB,C;QACvC,IAAI,4BAAO,YAAP,KAAJ,C;UAAyB,OAAO,Y;QAChC,IAAI,4B
AAO,YAAP,KAAJ,C;UAAyB,OAAO,Y;;QAGhC,IAAI,iBAAiB,IAAjB,IAAyB,4BAAO,YAAP,KAA7B,C;UAAk
D,OAAO,Y;QACzD,IAAI,iBAAiB,IAAjB,IAAyB,4BAAO,YAAP,KAA7B,C;UAAkD,OAAO,Y;;MAE7D,OAAO,
S;K;IAGX,2D;MAQI,IAAI,eAAe,YAAnB,C;QAAiC,MAAM,gCAAyB,oDAAiD,YAAjD,8BAAoF,YApF,MAA
zB,C;MACvC,IAAI,YAAO,YAAX,C;QAAyB,OAAO,Y;MAChC,IAAI,YAAO,YAAX,C;QAAyB,OAAO,Y;MAC
hC,OAAO,S;K;IAGX,2D;MAQI,IAAI,eAAe,YAAnB,C;QAAiC,MAAM,gCAAyB,oDAAiD,YAAjD,8BAAoF,YA
ApF,MAAzB,C;MACvC,IAAI,YAAO,YAAX,C;QAAyB,OAAO,Y;MAChC,IAAI,YAAO,YAAX,C;QAAyB,OAA
O,Y;MAChC,OAAO,S;K;IAGX,2D;MAQI,IAAI,eAAe,YAAnB,C;QAAiC,MAAM,gCAAyB,oDAAiD,YAAjD,8B
AAoF,YAApF,MAAzB,C;MACvC,IAAI,YAAO,YAAX,C;QAAyB,OAAO,Y;MAChC,IAAI,YAAO,YAAX,C;QA
AyB,OAAO,Y;MAChC,OAAO,S;K;IAGX,2D;MAQI,IAAI,6BAAe,YAAf,KAAJ,C;QAAiC,MAAM,gCAAyB,oD
AAiD,YAAjD,yCAAoF,YAApF,iBAAzB,C;MACvC,IAAI,0BAAO,YAAP,KAAJ,C;QAAyB,OAAO,Y;MAChC,I
AAI,0BAAO,YAAP,KAAJ,C;QAAyB,OAAO,Y;MAChC,OAAO,S;K;IAGX,2D;MAQI,IAAI,eAAe,YAAnB,C;QA
AiC,MAAM,gCAAyB,oDAAiD,YAAjD,8BAAoF,YAApF,MAAzB,C;MACvC,IAAI,YAAO,YAAX,C;QAAyB,O
AAO,Y;MAChC,IAAI,YAAO,YAAX,C;QAAyB,OAAO,Y;MAChC,OAAO,S;K;IAGX,2D;MAQI,IAAI,eAAe,YA
AnB,C;QAAiC,MAAM,gCAAyB,oDAAiD,YAAjD,8BAAoF,YAApF,MAAzB,C;MACvC,IAAI,YAAO,YAAX,C;
QAAyB,OAAO,Y;MAChC,IAAI,YAAO,YAAX,C;QAAyB,OAAO,Y;MAChC,OAAO,S;K;IAGX,sC;MAUW,Q;
MADP,IAAI,KAAM,UAAV,C;QAAqB,MAAM,gCAAyB,4CAAyC,KAAzC,MAAzB,C;MAGvB,IAAA,KAAM,0
BAAiB,SAAjB,EAAuB,KAAM,MAA7B,CAAN,IAA6C,CAAC,KAAM,0BAAiB,KAAM,MAAvB,EAA8B,SAA9
B,CAApD,C;QAAiG,OAAN,KAAM,M;WAEjG,IAAA,KAAM,0BAAiB,KAAM,aAAvB,EAAqC,SAArC,CAAN,I
AAoD,CAAC,KAAM,0BAAiB,SAAjB,EAAuB,KAAM,aAA7B,CAA3D,C;QAA+G,OAAN,KAAM,a;;QACvG,gB
;MALZ,W;K;IASJ,sC;MAYW,Q;MAJP,IAAI,8CAAJ,C;QACI,OAAY,WAAL,SAAK,EAAY,KAAZ,C;OAEhB,IA
AI,KAAM,UAAV,C;QAAqB,MAAM,gCAAyB,4CAAyC,KAAzC,MAAzB,C;MAEvB,gCAAO,KAAM,MAAb,M;
QAA4B,OAAN,KAAM,M;WAC5B,gCAAO,KAAM,aAAb,M;QAAmC,OAAN,KAAM,a;;QAC3B,gB;MAHZ,W;
K;IAOJ,sC;MAYW,Q;MAJP,IAAI,8CAAJ,C;QACI,OAAY,WAAL,SAAK,EAAc,KAAd,C;OAEhB,IAAI,KAAM,
UAAV,C;QAAqB,MAAM,gCAAyB,4CAAyC,KAAzC,MAAzB,C;MAEvB,gBAAO,KAAM,MAAb,C;QAA4B,O
AAN,KAAM,M;WAC5B,gBAAO,KAAM,aAAb,C;QAAmC,OAAN,KAAM,a;;QAC3B,gB;MAHZ,W;K;IAOJ,sC;
MAYW,Q;MAJP,IAAI,8CAAJ,C;QACI,OAAY,WAAL,SAAK,EAAe,KAAf,C;OAEhB,IAAI,KAAM,UAAV,C;Q
AAqB,MAAM,gCAAyB,4CAAyC,KAAzC,MAAzB,C;MAEvB,8BAAO,KAAM,MAAb,M;QAA4B,OAAN,KAA
M,M;WAC5B,8BAAO,KAAM,aAAb,M;QAAmC,OAAN,KAAM,a;;QAC3B,gB;MAHZ,W;K;IW1rCJ,oD;MAMu
F,wC;K;IANvF,8CAOI,Y;MAAuC,8B;K;IAP3C,gF;IkBQA,yC;MAMI,OAAO,sBAAQ,OAAR,KAAoB,C;K;IAW
G,2C;MAAA,qB;QAAE,MAAM,8BAA0B,+CAA4C,aAA5C,MAA1B,C;O;K;IAR1C,uC;MAQI,OAAO,8BAAgB,
KAAhB,EAAuB,yBAAvB,C;K;IAGX,4D;MAcqB,Q;MANjB,IAAI,QAAQ,CAAZ,C;QACI,OAAO,aAAa,KAAb,C
;MACX,eAAe,oB;MACf,YAAY,C;MACZ,OAAO,QAAS,UAAhB,C;QACI,cAAc,QAAS,O;QACvB,IAAI,WAAS,
YAAT,EAAS,oBAAT,OAAJ,C;UACI,OAAO,O;;MAEf,OAAO,aAAa,KAAb,C;K;IAGX,8C;MAcqB,Q;MANjB,I
AAI,QAAQ,CAAZ,C;QACI,OAAO,I;MACX,eAAe,oB;MACf,YAAY,C;MACZ,OAAO,QAAS,UAAhB,C;QACI,c
AAc,QAAS,O;QACvB,IAAI,WAAS,YAAT,EAAS,oBAAT,OAAJ,C;UACI,OAAO,O;;MAEf,OAAO,I;K;8EAGX,
gC;MASW,sB;;QA2FS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IA3FH,SA2FO,CAAU,OAA
V,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MA5FP,yB;K;uFAGJ,gC;MAkOoB,Q;MADhB,W
AAe,I;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IA1Nc,SA0NV,CAAU,OAAV,CAAJ,C;UACI,O
AAO,O;;MA3Nf,OA8NO,I;K;IA3NX,6B;MAOI,eAe,oB;MACf,IAAI,CAAC,QAAS,UAAd,C;QACI,MAAM,2B
AAuB,oBAAvB,C;MACV,OAAO,QAAS,O;K;iFAGpB,yB;MAAA,iE;MAAA,uC;QAOoB,Q;QAAA,2B;QAAhB,
OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QACrD,MAAM,gCAAu
B,sDAAvB,C;O;KARV,C;kGAWA,yB;MAAA,iE;MAAA,uC;QAWW,Q;QAAA,+B;;UAcS,U;UAAA,6B;UAAhB,
OAAgB,gBAAhB,C;YAAgB,2B;YACZ,aAfwB,SAeX,CAAU,OAAV,C;YACb,IAAI,cAAJ,C;cACI,8BAAO,M;cA

AP,gC;;UAGR,8BAAO,I;;;QApBA,kC;QAAA,iB;UAAmC,MAAM,gCAAuB,iEAAvB,C;SAAhD,OAAO,I;O;KA
XX,C;8GAcA,gC;MAWoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,aAAa,UAAU,OAAV,C;
QACb,IAAI,cAAJ,C;UACI,OAAO,M;;MAGf,OAAO,I;K;IAGX,mC;MAMI,eAAe,oB;MACf,IAAI,CAAC,QAAS,
UAAd,C;QACI,OAAO,I;MACX,OAAO,QAAS,O;K;6FAGpB,gC;MAMoB,Q;MAAA,2B;MAAhB,OAAgB,cAAh
B,C;QAAgB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,O;;MACrD,OAAO,I;K;IAGX,wC;MAOiB
,Q;MADb,YAAY,C;MACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,mBAAmB,KAAnB,C;QACA,IAAI,gBA
AW,IAAX,CAAJ,C;UACI,OAAO,K;QACX,qB;;MAEJ,OAAO,E;K;+FAGX,yB;MAAA,wE;MAAA,uC;QAOiB,Q
;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,mBAAmB,KAAnB,C;UACA,IAAI,UAAU,I
AAV,CAAJ,C;YACI,OAAO,K;UACX,qB;;QAEJ,OAAO,E;O;KAbX,C;6FAgBA,yB;MAAA,wE;MAAA,uC;QAQ
iB,Q;QAFb,gBAAgB,E;QAChB,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,mBAAmB,KAAnB,
C;UACA,IAAI,UAAU,IAAV,CAAJ,C;YACI,YAAY,K;UAChB,qB;;QAEJ,OAAO,S;O;KAdX,C;IAiBA,4B;MAUI
,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAd,C;QACI,MAAM,2BAAuB,oBAAvB,C;MACV,WAAW,QAAS,O;M
ACpB,OAAO,QAAS,UAAhB,C;QACI,OAAO,QAAS,O;MACpB,OAAO,I;K;+EAGX,yB;MAAA,iE;MAAA,gB;
MAAA,8B;MAAA,uC;QAYoB,UAQT,M;QAVP,WAAe,I;QACf,YAAY,K;QACI,2B;QAAhB,OAAgB,cAAhB,C;
UAAgB,yB;UACZ,IAAI,UAAU,OAAV,CAAJ,C;YACI,OAAO,O;YACP,QAAQ,I;;QAGhB,IAAI,CAAC,KAAL,C
;UAAY,MAAM,gCAAuB,sDAAvB,C;QAElB,OAAO,2E;O;KApBX,C;IAuBA,4C;MAQiB,Q;MAFb,gBAAgB,E;
MAChB,YAAY,C;MACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,mBAAmB,KAAnB,C;QACA,IAAI,gBAA
W,IAAX,CAAJ,C;UACI,YAAY,K;QAChB,qB;;MAEJ,OAAO,S;K;IAGX,kC;MAQI,eAAe,oB;MACf,IAAI,CAAC
,QAAS,UAAd,C;QACI,OAAO,I;MACX,WAAW,QAAS,O;MACpB,OAAO,QAAS,UAAhB,C;QACI,OAAO,QAA
S,O;MACpB,OAAO,I;K;2FAGX,gC;MASoB,Q;MADhB,WAAe,I;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB
,yB;QACZ,IAAI,UAAU,OAAV,CAAJ,C;UACI,OAAO,O;;MAGf,OAAO,I;K;IAGX,8B;MAMI,eAAe,oB;MACf,I
AAI,CAAC,QAAS,UAAd,C;QACI,MAAM,2BAAuB,oBAAvB,C;MACV,aAAa,QAAS,O;MACtB,IAAI,QAAS,U
AAb,C;QACI,MAAM,gCAAyB,qCAAzB,C;MACV,OAAO,M;K;mFAGX,yB;MAAA,kF;MAAA,iE;MAAA,gB;M
AAA,8B;MAAA,uC;QAQoB,UAST,M;QAXP,aAAAiB,I;QACjB,YAAY,K;QACI,2B;QAAhB,OAAgB,cAAhB,C;U
AAgB,yB;UACZ,IAAI,UAAU,OAAV,CAAJ,C;YACI,IAAI,KAAJ,C;cAAW,MAAM,8BAAyB,mDAAzB,C;YACj
B,SAAS,O;YACT,QAAQ,I;;QAGhB,IAAI,CAAC,KAAL,C;UAAY,MAAM,gCAAuB,sDAAvB,C;QAElB,OAAO,
6E;O;KAjBX,C;IAoBA,oC;MAMI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAd,C;QACI,OAAO,I;MACX,aAAa,Q
AAS,O;MACtB,IAAI,QAAS,UAAb,C;QACI,OAAO,I;MACX,OAAO,M;K;+FAGX,gC;MAQoB,Q;MAFhB,aAAi
B,I;MACjB,YAAY,K;MACI,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,UAAU,OAAV,CAAJ,C;U
ACI,IAAI,KAAJ,C;YAAW,OAAO,I;UAClB,SAAS,O;UACT,QAAQ,I;;MAGhB,IAAI,CAAC,KAAL,C;QAAY,O
AAO,I;MACnB,OAAO,M;K;IAGX,8B;MAWW,Q;MhBhXP,IAAI,EgB+WI,KAAK,ChB/WT,CAAJ,C;QACI,cgB
8Wc,sD;QhB7Wd,MAAM,gCAAyB,OAAAQ,WAAjC,C;OgB+WN,UAAK,CAAL,C;QAAU,gB;WACV,+C;QAAiC
,OAAL,SAAK,cAAK,CAAL,C;;QACzB,wBAAa,SAAb,EAAAmB,CAAnB,C;MAHZ,W;K;IAOJ,2C;MAQI,OAAO,
sBAAkB,SAAlB,EAAAwB,SAAxB,C;K;IAGX,wC;MAQI,OAAO,sBAAkB,SAAlB,EAAAwB,IAAxB,EAA8B,SAA9
B,C;K;IAcqE,iD;MAAA,qB;QAAE,yBAAU,EAAG,MAAb,EAAoB,EAAG,MAAvB,C;O;K;IAAkC,oC;MAAE,O
AAA,EAAG,M;K;IAXzH,+C;MAWI,OAAO,yBAAqB,sBAAkB,qBAAiB,SAAjB,CAAlB,EAA0C,IAA1C,EAAgD
,+BAAhD,CAArB,EAAyG,sBAAzG,C;K;oGAGX,yB;MA80BA,wE;MA90BA,oD;QAu1BiB,gB;QADb,YAAY,C;
QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UA50BT,IAAI,UA40BkB,oBAAmB,cAAnB,EAAmB,sBAAnB,UA50
BlB,EA40B+C,IA50B/C,CAAJ,C;YAA2C,sBA40BQ,IA50BR,C;;QAE/C,OAAO,W;O;KAbX,C;sGAgBA,yB;MA
AA,8C;MAAA,0C;MAAA,8B;MASkB,qD;QAAA,qB;UAAE,c;S;O;MATpB,sC;QASW,Q;QAAP,OAAO,uCAAO,
iCAAP,gC;O;KATX,C;0GAYA,4C;MAQoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,
YAAJ,C;UAAAkB,WAAY,WAAI,OAAJ,C;;MACpD,OAAO,W;K;IAGX,2C;MAQI,OAAO,sBAAkB,SAAlB,EAA
wB,KAAxB,EAA+B,SAA/B,C;K;IAYU,kC;MAAE,iB;K;IATvB,oC;MASW,Q;MAAP,OAAO,4CAAU,oBAAV,k
C;K;IAGX,mD;MAQoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,eAAJ,C;UAAqB,W
AAY,WAAI,OAAJ,C;;MACvD,OAAO,W;K;4FAGX,6C;MAQoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAA
gB,yB;QAAM,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAAyB,WAAY,WAAI,OAAJ,C;;MAC3D,OAAO,W;K;sFA
GX,6C;MAQoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UA
AwB,WAAY,WAAI,OAAJ,C;;MAC1D,OAAO,W;K;IAGX,8B;MAWW,Q;MhBzgBP,IAAI,EgBwgBI,KAAK,Ch

BxgBT,CAAJ,C;QACI,cgBugBc,sD;QhBtgBd,MAAM,gCAAyB,OAAQ,WAAjC,C;OgBwgBN,UAAK,CAAL,C;Q
AAU,sB;WACV,+C;QAAiC,OAAL,SAAK,cAAK,CAAL,C;;QACzB,wBAAa,SAAb,EAAmB,CAAnB,C;MAHZ,
W;K;IAOJ,2C;MAQI,OAAO,sBAAkB,SAAlB,EAAwB,SAAxB,C;K;IAWA,2C;MAAA,8B;K;8CACH,Y;MACI,i
BAA6B,iBAAZ,gBAAY,C;MAClB,QAAX,UAAW,C;MACX,OAAO,UAAW,W;K;;IAZ9B,6B;MAQI,0C;K;sFAS
J,yB;MAAA,sD;MdjfA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YA
AtB,OA5Dd,cAAc,SA4DgB,CA5DhB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;Mc0ef,sC;QAU
I,OAAO,sBdpfP,eAAW,iBcofiB,QdpfjB,CAAX,CcofO,C;O;KAVX,C;0GAaA,yB;MAAA,sD;Md3eA,sC;MAAA,o
C;MAAA,iCAOe,yB;QAxFf,8D;eAwFe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA/Ed,cAAc,SA+EgB,CA/EhB
,CAAd,EAA2B,SA+EM,CA/EN,CAA3B,C;W;S;OA+EI,C;Mcoef,sC;QAQI,OAAO,sBd5eP,eAAW,2Bc4e2B,Qd5e
3B,CAAX,Cc4eO,C;O;KARX,C;IAWA,uC;MAQI,OAAO,wBAAW,cAAX,C;K;IAWA,uE;MAAA,sC;MAAA,4C;
K;kDACH,Y;MACI,iBAAiC,iBAAhB,oBAAgB,C;MACtB,WAAX,UAAW,EAAS,uBAAT,C;MACX,OAAO,UA
AW,W;K;;IAZ9B,6C;MAQI,0D;K;wFASJ,yB;MAAA,wE;MAAA,uC;QAaW,kBAAY,oB;QAiFH,Q;QAAA,2B;Q
AAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAlFsC,SAkFvB,CAAU,OAAV,C;UvBnEnB,wBAAI,IAAK,MAA
T,EAAgB,IAAK,OAArB,C;;QuBfA,OAoFO,W;O;KAjGX,C;6FAgBA,yB;MAAA,wE;MAAA,yC;QAaW,kBAAc,
oB;QA8BL,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAAY,aA/B4B,WA+BxB,CAAY,OAA
Z,CAAJ,EAA0B,OAA1B,C;;QA/BhB,OAiCO,W;O;KA9CX,C;6FAgBA,yB;MAAA,wE;MAAA,yD;QAYW,kBA
Ac,oB;QAiCL,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAAY,aAlC4B,WAkCxB,CAAY,OA
AZ,CAAJ,EAlCyC,cAkCf,CAAe,OAAf,CAA1B,C;;QAlChB,OAoCO,W;O;KAhDX,C;iGAeA,+C;MAYoB,Q;MA
AA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,WAAY,aAAI,YAAY,OAAZ,CAAJ,EAA0B,OAA1B,C;;M
AEhB,OAAO,W;K;iGAGX,+D;MAYoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,WAAY,aA
AI,YAAY,OAAZ,CAAJ,EAA0B,eAAe,OAAf,CAA1B,C;;MAEhB,OAAO,W;K;4FAGX,6C;MAWoB,Q;MAAA,2
B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,WAAe,UAAU,OAAV,C;QvBnEnB,wBAAI,IAAK,MAAT,EAA
gB,IAAK,OAArB,C;;MuBqEA,OAAO,W;K;gGAGX,yB;MAAA,wE;MAAA,2C;QAcI,aAAa,oB;QAgBG,Q;QAA
A,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAfO,MAgBP,aAAI,OAAJ,EAhBe,aAgBF,CAAc,OAAd,CAAb,C;;
QAhBhB,OAAuB,M;O;KAf3B,C;oGAkBA,iD;MAYoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;Q
ACZ,WAAY,aAAI,OAAJ,EAAa,cAAc,OAAd,CAAb,C;;MAEhB,OAAO,W;K;IAGX,gD;MAMiB,Q;MAAA,2B;M
AAb,OAAa,cAAb,C;QAAa,sB;QACT,WAAY,WAAI,IAAJ,C;;MAEhB,OAAO,W;K;IAGX,gC;MAMI,OAAO,0B
AAa,cAAb,C;K;IAGX,8B;MAMI,OAA4B,qBAAhB,iBAAL,SAAK,CAAgB,C;K;IAGhC,qC;MAMI,OAAO,0BAA
a,gBAAb,C;K;IAGX,4B;MAQI,OAAwC,oBAAjC,0BAAa,sBAAb,CAAiC,C;K;IAG5C,0C;MAYI,OAAO,uBAAm
B,SAAnB,EAAyB,SAAzB,6BAAoC,qB;;OAApC,E;K;IAGX,0C;MAQI,OAAO,uBAAmB,SAAnB,EAAyB,SAAz
B,6BAAoC,qB;;OAApC,E;K;IAGX,iD;MAaI,OAAO,kBAAe,SAAf,EAAqB,SAArB,6BAAgC,qB;;OAAhC,E;K;I
AGX,iD;MAaI,OAAO,kBAAe,SAAf,EAAqB,SAArB,6BAAgC,qB;;OAAhC,E;K;sGAGX,yB;MAAA,wE;MAAA,
gD;MAAA,oD;QAaoB,UAC4B,M;QAF5C,YAAY,C;QACI,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,W
AAW,UAAU,oBAAmB,cAAnB,EAAmB,sBAAnB,UAAV,EAAuC,OAAvC,C;UACC,OAAZ,WAAY,EAAO,IAA
P,C;;QAEhB,OAAO,W;O;KAjBX,C;uGAoBA,yB;MAAA,wE;MAAA,gD;MAAA,oD;QAaoB,UAC4B,M;QAF5C,
YAAY,C;QACI,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAAW,UAAU,oBAAmB,cAAnB,EAAmB,sB
AAnB,UAAV,EAAuC,OAAvC,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KAjBX,C;yFAoB
A,yB;MAAA,gD;MAAA,oD;QAUoB,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAAW,UAA
U,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KAdX,C;yFAiBA,yB;MAAA,gD;MAA
A,oD;QAMoB,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAAW,UAAU,OAAV,C;UACC,OA
AZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KAVX,C;qFAaA,yB;MAAA,wE;MA6BA,+D;MA7BA,yC;QA
WW,kBAAU,oB;QA6BD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,UA9BiD,WA8BvC,CAAY
,OAAZ,C;UvBjoBP,U;UADP,YuBmoBe,WvBnoBH,WuBmoBwB,GvBnoBxB,C;UACL,IAAI,aAAJ,C;YACH,auB
ioBuC,gB;YAA5B,WvBhoBX,auBgoBgC,GvBhoBhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UuB6nBA,iB;UACA,I
AAK,WAAI,OAAJ,C;;QAhCT,OAkCO,W;O;KA7CX,C;qFAcA,yB;MAAA,wE;MAkCA,+D;MAlCA,yD;QAYW,
kBAAU,oB;QAkCD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,UAnCiD,WAmCvC,CAAY,OA
AZ,C;UvBrpBP,U;UADP,YuBupBe,WvBvpBH,WuBupBwB,GvBvpBxB,C;UACL,IAAI,aAAJ,C;YACH,auBqpBu
C,gB;YAA5B,WvBppBX,auBopBgC,GvBppBhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UuBipBA,iB;UACA,IAAK

,WArCyD,cAqCrD,CAAe,OAAf,CAAJ,C;;QArCT,OAuCO,W;O;KAnDX,C;yFAeA,yB;MAAA,+D;MAAA,sD;Q
AWoB,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,UAAU,YAAY,OAAZ,C;UvBjoBP,U;UADP,
YuBmoBe,WvBnoBH,WuBmoBwB,GvBnoBxB,C;UACL,IAAI,aAAJ,C;YACH,auBioBuC,gB;YAA5B,WvBhoBX
,auBgoBgC,GvBhoBhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UuB6nBA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,
OAAO,W;O;KAhBX,C;yFAmBA,yB;MAAA,+D;MAAA,sE;QAYoB,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;U
AAgB,yB;UACZ,UAAU,YAAY,OAAZ,C;UvBrpBP,U;UADP,YuBupBe,WvBvpBH,WuBupBwB,GvBvpBxB,C;U
ACL,IAAI,aAAJ,C;YACH,auBqpBuC,gB;YAA5B,WvBppBX,auBopBgC,GvBppBhC,EAAS,MAAT,C;YACA,e;;
YAEA,c;;UuBipBA,iB;UACA,IAAK,WAAI,eAAe,OAAf,CAAJ,C;;QAET,OAAO,W;O;KAjBX,C;0FAoBA,yB;M
AAA,kC;MAAA,4C;MAAA,wE;QAUW,sC;QAAA,8C;O;MAVX,oDAWQ,Y;QAA6C,OAAA,oBAAgB,W;O;MA
XrE,iDAYQ,mB;QAAoC,gCAAY,OAAZ,C;O;MAZ5C,gF;MAAA,yC;QAUI,2D;O;KAVJ,C;IAgBA,sC;MASI,OA
AO,yBAAqB,SAArB,EAA2B,SAA3B,C;K;IAGX,4C;MASI,OAAO,gCAA4B,SAA5B,EAAkC,SAAlC,C;K;IAGX,
mD;MASI,OAAoD,gBAA7C,gCAA4B,SAA5B,EAAkC,SAAlC,CAA6C,C;K;4GAGxD,yB;MAuNA,wE;MAvNA,
oD;QAgOiB,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UAvNsB,U;UAAAA,wBAuNT,oBAA
mB,cAAnB,EAAmB,sBAAnB,UAvNS,EAuNoB,IAvNpB,W;YAA6C,6B;;QAChF,OAAO,W;O;KAVX,C;8FAaA,
yB;MAAA,wE;MAAA,oD;QAUiB,UACoC,M;QAFjD,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UAC
T,WAAY,WAAI,UAAU,oBAAmB,cAAnB,EAAmB,sBAAnB,UAAV,EAAuC,IAAvC,CAAJ,C;;QAChB,OAAO,
W;O;KAZX,C;IAeA,4C;MASI,OAA6C,gBAAtC,yBAAqB,SAArB,EAA2B,SAA3B,CAAsC,C;K;8FAGjD,yB;MA
AA,oD;QA4KoB,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UArKK,U;UAAAA,wBAqKQ,OArKR,W;Y
AAsC,6B;;QAC3D,OAAO,W;O;KARX,C;iFAWA,6C;MAOiB,Q;MAAA,2B;MAAb,OAAa,cAAb,C;QAAa,sB;Q
ACT,WAAY,WAAI,UAAU,IAAV,CAAJ,C;;MAChB,OAAO,W;K;IAGX,gC;MAOI,OAAO,qBAAiB,SAAjB,C;K;
IAcgB,6B;MAAE,S;K;IAX7B,+B;MAWI,OAAY,aAAL,SAAK,EAAW,eAAX,C;K;IAGhB,2C;MAYI,OAAO,qBA
AiB,SAAjB,EAAuB,QAAvB,C;K;IAGX,mC;MASiB,Q;MADb,UAAU,sB;MACG,2B;MAAb,OAAa,cAAb,C;QA
Aa,sB;QAAM,GAAI,WAAI,IAAJ,C;;MACvB,OAAO,G;K;6EAGX,gC;MAQoB,Q;MAAA,2B;MAAhB,OAAgB,c
AAhB,C;QAAgB,yB;QAAM,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,OAAO,K;;MACtD,OAAO,I;K;IAGX,
2B;MAQI,OAAO,oBAAW,U;K;6EAGtB,gC;MAQoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAA
M,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,I;;MACrD,OAAO,K;K;IAGX,6B;MAOoB,Q;MADhB,YAAY,C
;MACI,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,oBAAmB,qBAAnB,EAAmB,KAAnB,E;;MACtB,OA
AO,K;K;iFAGX,yB;MAAA,wE;MAAA,uC;QAOoB,Q;QADhB,YAAY,C;QACI,2B;QAAhB,OAAgB,cAAhB,C;U
AAgB,yB;UAAM,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,oBAAmB,qBAAnB,EAAmB,KAAnB,E;;QAC9C,OAA
O,K;O;KARX,C;8EAWA,yC;MAYoB,Q;MADhB,kBAAAkB,O;MACF,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB
;QAAM,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;;MACpC,OAAO,W;K;4FAGX,yB;MAAA,wE;MAAA,gD;QAc
oB,UAAiD,M;QAFjE,YAAY,C;QACZ,kBAAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,cA
Ac,UAAU,oBAAmB,cAAnB,EAAmB,sBAAnB,UAAV,EAAuC,WAAvC,EAAoD,OAApD,C;;QACpC,OAAO,W;
O;KAfX,C;qFAkBA,6B;MAMoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,OAAO,OAAP,C;
;K;kGAG1B,yB;MAAA,wE;MAAA,oC;QASiB,UAAgC,M;QAD7C,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;U
AAa,sB;UAAM,OAAO,oBAAmB,cAAnB,EAAmB,sBAAnB,UAAP,EAAoC,IAApC,C;;O;KATvB,C;IAYA,2B;M
AII,OAAO,uB;K;IAGX,2B;MAII,OAAO,uB;K;IAGX,2B;MAGI,OAAO,uB;K;iFAGX,+B;MAGW,sB;;QAYP,eA
Ae,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,qBAAO,I;UAAP,uB;SACzB,cAAc,QAAS,O;QACvB,IAAI,C
AAC,QAAS,UAAd,C;UAAyB,qBAAO,O;UAAP,uB;SACzB,eAhBmB,QAgBJ,CAAS,OAAT,C;;UAEX,QAAQ,Q
AAS,O;UACjB,QAnBe,QAmBP,CAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,
WAAW,C;;QAED,QAAT,QAAS,W;QAClB,qBAAO,O;;;MAzBP,yB;K;6FAGJ,+B;MASI,eAAe,oB;MACf,IAAI,C
AAC,QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,cAAc,QAAS,O;MACvB,IAAI,CAAC,QAAS,UAAd,C;QAAyB,
OAAO,O;MAChC,eAAe,SAAS,OAAT,C;;QAEX,QAAQ,QAAS,O;QACjB,QAAQ,SAAS,CAAT,C;QACR,IAAI,2
BAAW,CAAX,KAAJ,C;UACI,UAAU,C;UACV,WAAW,C;;MAED,QAAT,QAAS,W;MAClB,OAAO,O;K;iFAG
X,yB;MAAA,sE;MZpwCA,iB;MYowCA,sC;QAeI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,MAAM
,6B;QAC/B,eAAe,SAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAlB,C
;UACR,WZhxCG,MAAO,KYgxCO,QZhxCP,EYgxCiB,CZhxCjB,C;;QYkxCd,OAAO,Q;O;KAtBX,C;iFAyBA,yB;
MAAA,sE;MZxyCA,iB;MYwyCA,sC;QAeI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,MAAM,6B;Q

AC/B,eAAe,SAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAlB,C;UAC
R,WZpzCG,MAAO,KYozCO,QZpzCP,EYozCiB,CZpzCjB,C;;QYszCd,OAAO,Q;O;KAtBX,C;iFAyBA,yB;MAA
A,sE;MAAA,sC;QAaI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,SAAS,Q
AAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAlB,C;UACR,IAAI,2BAAW,CA
AX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAtBX,C;6FAyBA,yB;MZ/0CA,iB;MY+0CA,sC;QAaI,eAA
e,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,OAAO,I;QAChC,eAAe,SAAS,QAAS,OAAlB,C;QACf,OAAO,
QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAlB,C;UACR,WZz1CG,MAAO,KYy1CO,QZz1CP,EYy1CiB,C
Zz1CjB,C;;QY21Cd,OAAO,Q;O;KApBX,C;6FAuBA,yB;MZj3CA,iB;MYi3CA,sC;QAaI,eAAe,oB;QACf,IAAI,C
AAC,QAAS,UAAd,C;UAAyB,OAAO,I;QAChC,eAAe,SAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;U
ACI,QAAQ,SAAS,QAAS,OAAlB,C;UACR,WZ33CG,MAAO,KY23CO,QZ33CP,EY23CiB,CZ33CjB,C;;QY63Cd
,OAAO,Q;O;KApBX,C;6FAuBA,+B;MAWI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAd,C;QAAyB,OAAO,I;MA
ChC,eAAe,SAAS,QAAS,OAAlB,C;MACf,OAAO,QAAS,UAAhB,C;QACI,QAAQ,SAAS,QAAS,OAAlB,C;QAC
R,IAAI,2BAAW,CAAX,KAAJ,C;UACI,WAAW,C;;MAGnB,OAAO,Q;K;yFAGX,yB;MAAA,sE;MAAA,kD;QAa
I,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,SAAS,QAAS,OAAlB,C;QACf,
OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAlB,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CA
AlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAtBX,C;qGAyBA,2C;MAWI,eAAe,oB;
MACf,IAAI,CAAC,QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,eAAe,SAAS,QAAS,OAAlB,C;MACf,OAAO,QA
AS,UAAhB,C;QACI,QAAQ,SAAS,QAAS,OAAlB,C;QACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,
GAAkC,CAAtC,C;UACI,WAAW,C;;MAGnB,OAAO,Q;K;IAGX,iC;MASI,eAAe,oB;MACf,IAAI,CAAC,QAAS,
UAAd,C;QAAyB,OAAO,I;MAChC,UAAU,QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;QACI,QAAQ,QAAS,O;
QACjB,MZ18CG,MAAO,KY08CE,GZ18CF,EY08CO,CZ18CP,C;;MY48Cd,OAAO,G;K;IAGX,iC;MASI,eAAe,o
B;MACf,IAAI,CAAC,QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,UAAU,QAAS,O;MACnB,OAAO,QAAS,UAAh
B,C;QACI,QAAQ,QAAS,O;QACjB,MZx+CG,MAAO,KYw+CE,GZx+CF,EYw+CO,CZx+CP,C;;MY0+Cd,OAA
O,G;K;IAGX,iC;MAOI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,UAAU,QAAS,
O;MACnB,OAAO,QAAS,UAAhB,C;QACI,QAAQ,QAAS,O;QACjB,IAAI,sBAAM,CAAN,KAAJ,C;UAAa,MAA
M,C;;MAEvB,OAAO,G;K;IAGX,2C;MAGI,OAAO,4BAAc,UAAd,C;K;IAGX,iD;MAOI,eAAe,oB;MACf,IAAI,C
AAC,QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,UAAU,QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;QACI,QAA
Q,QAAS,O;QACjB,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MA
E9C,OAAO,G;K;IAGX,2B;MAII,OAAO,uB;K;IAGX,2B;MAII,OAAO,uB;K;IAGX,2B;MAGI,OAAO,uB;K;iFAG
X,+B;MAGW,sB;;QAYP,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,qBAAO,I;UAAP,uB;SACCzB,cA
Ac,QAAS,O;QACCvB,IAAI,CAAC,QAAS,UAAd,C;UAAyB,qBAAO,O;UAAP,uB;SACCzB,eAhBmB,QAgBJ,CAA
S,OAAT,C;;UAEX,QAAQ,QAAS,O;UACjB,QAnBe,QAmBP,CAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAA
J,C;YACI,UAAU,C;YACV,WAAW,C;;QAED,QAAT,QAAS,W;QAClB,qBAAO,O;;;MAzBP,yB;K;6FAGJ,+B;M
ASI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,cAAc,QAAS,O;MACvB,IAAI,CAA
C,QAAS,UAAd,C;QAAyB,OAAO,O;MAChC,eAAe,SAAS,OAAT,C;;QAEX,QAAQ,QAAS,O;QACjB,QAAQ,SA
AS,CAAT,C;QACR,IAAI,2BAAW,CAAX,KAAJ,C;UACI,UAAU,C;UACV,WAAW,C;;MAED,QAAT,QAAS,W;
MAClB,OAAO,O;K;iFAGX,yB;MAAA,sE;MZj3CA,iB;MYi3CA,sC;QAeI,eAAe,oB;QACf,IAAI,CAAC,QAAS,U
AAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,SAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,
SAAS,QAAS,OAAlB,C;UACR,WZ73CG,MAAO,KY63CO,QZ73CP,EY63CiB,CZ73CjB,C;;QY+3Cd,OAAO,Q;
O;KAtBX,C;iFAyBA,yB;MAAA,sE;MZr5CA,iB;MYq5CA,sC;QAeI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,
C;UAAyB,MAAM,6B;QAC/B,eAAe,SAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAA
S,QAAS,OAAlB,C;UACR,WZj6CG,MAAO,KYi6CO,QZj6CP,EYi6CiB,CZj6CjB,C;;QYm6Cd,OAAO,Q;O;KAtB
X,C;iFAyBA,yB;MAAA,sE;MAAA,sC;QAaI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,MAAM,6B;
QAC/B,eAAe,SAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAlB,C;UA
CR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAtBX,C;6FAyBA,yB;MZ57CA,iB;M
Y47CA,sC;QAaI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,OAAO,I;QAChC,eAAe,SAAS,QAAS,OA
AlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAlB,C;UACR,WZt8CG,MAAO,KYs8CO,
QZt8CP,EYs8CiB,CZt8CjB,C;;QYw8Cd,OAAO,Q;O;KApBX,C;6FAuBA,yB;MZ99CA,iB;MY89CA,sC;QAaI,eA

Ae,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,OAAO,I;QAChC,eAAe,SAAS,QAAS,OAAlB,C;QACf,OAA
O,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAlB,C;UACR,WZx+CG,MAAO,KYw+CO,QZx+CP,EYw+Ci
B,CZx+CjB,C;;QY0+Cd,OAAO,Q;O;KApBX,C;6FAuBA,+B;MAWI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAd,
C;QAAyB,OAAO,I;MAChC,eAAe,SAAS,QAAS,OAAlB,C;MACf,OAAO,QAAS,UAAhB,C;QACI,QAAQ,SAAS,
QAAS,OAAlB,C;QACR,IAAI,2BAAW,CAAX,KAAJ,C;UACI,WAAW,C;;MAGnB,OAAO,Q;K;yFAGX,yB;MA
AA,sE;MAAA,kD;QAaI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,SAAS,
QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAlB,C;UACR,IAAI,UAAW,SA
AQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAtBX,C;qGAyB
A,2C;MAWI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,eAAe,SAAS,QAAS,OAAl
B,C;MACf,OAAO,QAAS,UAAhB,C;QACI,QAAQ,SAAS,QAAS,OAAlB,C;QACR,IAAI,UAAW,SAAQ,QAAR,E
AAkB,CAAlB,CAAX,GAAkC,CAAtC,C;UACI,WAAW,C;;MAGnB,OAAO,Q;K;IAGX,iC;MASI,eAAe,oB;MAC
f,IAAI,CAAC,QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,UAAU,QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;QA
CI,QAAQ,QAAS,O;QACjB,MZvjDG,MAAO,KYujDE,GZvjDF,EYujDO,CZvjDP,C;;MYyjDd,OAAO,G;K;IAGX,
iC;MASI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,UAAU,QAAS,O;MACnB,OA
AO,QAAS,UAAhB,C;QACI,QAAQ,QAAS,O;QACjB,MZrlDG,MAAO,KYqlDE,GZrlDF,EYqlDO,CZrlDP,C;;MY
ulDd,OAAO,G;K;IAGX,iC;MAOI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,UAA
U,QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;QACI,QAAQ,QAAS,O;QACjB,IAAI,sBAAM,CAAN,KAAJ,C;UA
Aa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,2C;MAGI,OAAO,4BAAc,UAAd,C;K;IAGX,iD;MAOI,eAAe,oB;MAC
f,IAAI,CAAC,QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,UAAU,QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;QA
CI,QAAQ,QAAS,O;QACjB,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM
,C;;MAE9C,OAAO,G;K;IAGX,4B;MAQI,OAAO,CAAC,oBAAW,U;K;+EAGvB,gC;MAQoB,Q;MAAA,2B;MAA
hB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,K;;MACrD,OAAO,I;K;
IAUI,uC;MAAA,qB;QACP,eAAO,EAAP,C;QAAA,OACA,E;O;K;IATR,sC;MAOI,OAAO,kBAAI,qBAAJ,C;K;IA
eW,8C;MAAA,iC;QACd,eAAO,KAAP,EAAc,OAAd,C;QAAA,OACA,O;O;K;IAXR,6C;MASI,OAAO,wBAAW,4
BAAX,C;K;kFAMX,yB;MAAA,4F;MAAA,uC;QAeI,eAAe,SAAK,W;QACpB,IAAI,CAAC,QAAS,UAAd,C;UAA
yB,MAAM,mCAA8B,kCAA9B,C;QAC/B,kBAAqB,QAAS,O;QAC9B,OAAO,QAAS,UAAhB,C;UACI,cAAc,UA
AU,WAAV,EAAuB,QAAS,OAAhC,C;;QAElB,OAAO,W;O;KArBX,C;gGAwBA,yB;MAAA,4F;MAAA,wE;MA
AA,uC;QAoBmD,Q;QAL/C,eAAe,SAAK,W;QACpB,IAAI,CAAC,QAAS,UAAd,C;UAAyB,MAAM,mCAA8B,k
CAA9B,C;QAC/B,YAAY,C;QACZ,kBAAqB,QAAS,O;QAC9B,OAAO,QAAS,UAAhB,C;UACI,cAAc,UAAU,oB
AAmB,YAAnB,EAAmB,oBAAnB,QAAV,EAAuC,WAAvC,EAAoD,QAAS,OAA7D,C;;QAElB,OAAO,W;O;KAt
BX,C;4GAyBA,yB;MAAA,wE;MAAA,uC;QAoBmD,Q;QAL/C,eAAe,SAAK,W;QACpB,IAAI,CAAC,QAAS,UA
Ad,C;UAAyB,OAAO,I;QAChC,YAAY,C;QACZ,kBAAqB,QAAS,O;QAC9B,OAAO,QAAS,UAAhB,C;UACI,cA
Ac,UAAU,oBAAmB,YAAnB,EAAmB,oBAAnB,QAAV,EAAuC,WAAvC,EAAoD,QAAS,OAA7D,C;;QAElB,OA
AO,W;O;KAtBX,C;8FAyBA,gC;MAgBI,eAAe,SAAK,W;MACpB,IAAI,CAAC,QAAS,UAAd,C;QAAyB,OAAO,I
;MAChC,kBAAqB,QAAS,O;MAC9B,OAAO,QAAS,UAAhB,C;QACI,cAAc,UAAU,WAAV,EAAuB,QAAS,OAA
hC,C;;MAElB,OAAO,W;K;IAoBS,2I;MAAA,wC;MAAA,6B;MAAA,yB;MAAA,8C;MAAA,gD;MAAA,kD;MAA
A,wB;MAAA,+B;MAAA,kC;K;;;;sDAAA,Y;;;;;cACZ,gB;8BAAA,iCAAM,0BAAN,O;kBAAA,2C;uBAAA,yB;cA
AA,Q;;;;uCACkB,0B;cACF,wD;cAAhB,gB;;;cAAA,KAAgB,yBAAhB,C;gBAAA,gB;;;cAAgB,oC;cACZ,yBAAc,
6BAAU,sBAAV,EAAuB,OAAvB,C;cACd,gB;8BAAA,iCAAM,sBAAN,O;kBAAA,2C;uBAAA,yB;cAAA,Q;;cAF
J,gB;;;cAIJ,W;;;;;;;;;;;;;K;IAPgB,wF;MAAA,yD;uBAAA,+H;YAAA,S;iBAAA,Q;;iBAAA,uB;O;K;IAjBpB,sD;M
AiBI,OAAO,SAAS,iDAAT,C;K;IA4BS,yJ;MAAA,wC;MAAA,6B;MAAA,yB;MAAA,8C;MAAA,8D;MAAA,kD;
MAAA,wB;MAAA,yB;MAAA,+B;MAAA,kC;K;;;;6DAAA,Y;;;;;kBAKmC,I;cAJ/C,gB;8BAAA,iCAAM,0BAAN,
O;kBAAA,2C;uBAAA,yB;cAAA,Q;;;;iCACY,C;uCACM,0B;cACF,+D;cAAhB,gB;;;cAAA,KAAgB,yBAAhB,C;g
BAAA,gB;;;cAAgB,oC;cACZ,yBAAc,6BAAU,oBAAmB,uBAAnB,EAAmB,+BAAnB,QAAV,EAAuC,sBAAvC,E
AAoD,OAApD,C;cACd,gB;8BAAA,iCAAM,sBAAN,O;kBAAA,2C;uBAAA,yB;cAAA,Q;;cAFJ,gB;;;cAIJ,W;;;;;;
;;;;;;K;IARgB,sG;MAAA,yD;uBAAA,6I;YAAA,S;iBAAA,Q;;iBAAA,uB;O;K;IAlBpB,6D;MAkBI,OAAO,SAAS,
wDAAT,C;K;IA2BS,4H;MAAA,wC;MAAA,6B;MAAA,yB;MAAA,oD;MAAA,kD;MAAA,4B;MAAA,+B;MAA
A,kC;K;;;;wDAAA,Y;;;;;oCACG,wC;cACf,IAAI,mBAAS,UAAb,C;yCACyB,mBAAS,O;gBAC9B,gB;gCAAA,iC

AAM,sBAAN,O;oBAAA,2C;yBAAA,yB;gBAAA,Q;;gBAFJ,gB;;;;;;;cAGI,gB;;;cAAA,KAAO,mBAAS,UAAhB,C
;gBAAA,gB;;;cACI,yBAAc,6BAAU,sBAAV,EAAuB,mBAAS,OAAhC,C;cACd,gB;8BAAA,iCAAM,sBAAN,O;k
BAAA,2C;uBAAA,yB;cAAA,Q;;cAFJ,gB;;;cAHJ,gB;;;cAQJ,W;;;;;;;;;;;;;K;IAVgB,yE;MAAA,yD;uBAAA,gH;Y
AAA,S;iBAAA,Q;;iBAAA,uB;O;K;IAhBpB,+C;MAgBI,OAAO,SAAS,0CAAT,C;K;IA6BS,0I;MAAA,wC;MAAA
,6B;MAAA,yB;MAAA,kE;MAAA,kD;MAAA,4B;MAAA,+B;MAAA,yB;MAAA,kC;K;;;;+DAAA,Y;;;;;cAOuC,Q
;oCANpC,+C;cACf,IAAI,mBAAS,UAAb,C;yCACyB,mBAAS,O;gBAC9B,gB;gCAAA,iCAAM,sBAAN,O;oBAA
A,2C;yBAAA,yB;gBAAA,Q;;gBAFJ,gB;;;;;;;iCAGgB,C;cACZ,gB;;;cAAA,KAAO,mBAAS,UAAhB,C;gBAAA,g
B;;;cACI,yBAAc,6BAAU,oBAAmB,uBAAnB,EAAmB,+BAAnB,QAAV,EAAuC,sBAAvC,EAAoD,mBAAS,OA
A7D,C;cACd,gB;8BAAA,iCAAM,sBAAN,O;kBAAA,2C;uBAAA,yB;cAAA,Q;;cAFJ,gB;;;cAJJ,gB;;;cASJ,W;;;;;;;
;;;;;;K;IAXgB,uF;MAAA,yD;uBAAA,8H;YAAA,S;iBAAA,Q;;iBAAA,uB;O;K;IAhBpB,sD;MAgBI,OAAO,SAA
S,iDAAT,C;K;IAcX,+C;MAkBI,OAAO,yBAAY,OAAZ,EAAqB,SAArB,C;K;IAGX,sD;MAmBI,OAAO,gCAAmB
,OAAnB,EAA4B,SAA5B,C;K;gFAGX,+B;MASoB,Q;MADhB,UAAe,C;MACC,2B;MAAhB,OAAgB,cAAhB,C;Q
AAgB,yB;QACZ,YAAO,SAAS,OAAT,CAAP,I;;MAEJ,OAAO,G;K;4FAGX,+B;MASoB,Q;MADhB,UAAkB,G;
MACF,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;iFAGX,+
B;MAYoB,Q;MADhB,UAAoB,C;MACJ,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,SAAS,OAAT
,C;;MAEX,OAAO,G;K;iFAGX,+B;MAYoB,Q;MADhB,UAAe,C;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,
yB;QACZ,YAAO,SAAS,OAAT,CAAP,I;;MAEJ,OAAO,G;K;iFAGX,yB;MAAA,SAWoB,gB;MAXpB,sC;QAYoB
,Q;QADhB,Y;QACgB,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAO,SAAS,OAAT,CAAP,C;;QAEJ,O
AAO,G;O;KAfX,C;iFAkBA,yB;M3B15DA,6B;M2B05DA,sC;QAaoB,Q;QADhB,U3B55DmC,c2B45DnB,C3B55
DmB,C;Q2B65DnB,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,M3BhuEiD,c2BguEjD,G3BhuE2D,KAAK,
G2BguEzD,SAAS,OAAT,C3BhuEoE,KAAX,IAAf,C;;Q2BkuErD,OAAO,G;O;KAhBX,C;iFAmBA,yB;MX16DA,
+B;MW06DA,sC;QAaoB,Q;QADhB,UX36DqC,eAAW,oBW26D/B,CX36D+B,CAAX,C;QW46DrB,2B;QAAhB,
OAAgB,cAAhB,C;UAAgB,yB;UACZ,MXhvEmD,eWgvEnD,GXhvE8D,KAAK,KWgvE5D,SAAS,OAAT,CXhvE
uE,KAAX,CAAhB,C;;QWkvEvD,OAAO,G;O;KAhBX,C;IAyBe,oD;MAAA,qB;QAAE,e;UAAM,MAAM,gCAAy
B,2BAAwB,mBAAxB,MAAzB,C;SAAZ,S;O;K;IANjB,qC;MAMI,OAAO,kBAAI,gCAAJ,C;K;IAGX,oC;MAaI,O
AAO,sBAAS,IAAT,EAAe,IAAf,EAAsC,IAAtC,C;K;IAGX,+C;MAkBI,OAAO,sBAAS,IAAT,EAAe,IAAf,EAAsC
,IAAtC,EAAwD,SAAxD,C;K;IASA,0D;MAAA,4B;MAAA,sC;K;IAG0B,+E;MAAA,qB;QAAE,IAAI,CAAC,iBA
AD,IAAY,WAAM,eAAN,CAAhB,C;UAAiC,oBAAU,I;UAA3C,OAAiD,K;;UAAjD,OAA8D,I;O;K;6CAF7F,Y;M
ACI,kBAAc,KAAd,C;MACA,OAAkB,SAAX,eAAW,EAAO,kEAAP,CAA8E,W;K;;IAT5G,qC;MAMI,kD;K;IAsB
O,6D;MAAA,wC;MAAA,4B;K;IAG6B,8D;MAAA,qB;QAAE,OAAM,aAAN,mB;O;K;+CAFlC,Y;MACI,YAAqB,
8BAAT,qBAAS,C;MACrB,OAAkB,YAAX,eAAW,EAAU,4CAAV,CAA0B,W;K;;IAjBxD,sC;MAaI,IAAI,Q9B80
KG,YAAQ,C8B90Kf,C;QAAwB,OAAO,S;MAC/B,qD;K;IAqBO,6D;MAAA,wC;MAAA,4B;K;IAMiC,8D;MAAA
,qB;QAAE,OAAM,aAAN,mB;O;K;+CALtC,Y;MACI,YAAqB,4BAAT,qBAAS,C;MACrB,IAAI,KAAM,UAAV,C
;QACI,OAAO,eAAW,W;;QAElB,OAAkB,YAAX,eAAW,EAAU,4CAAV,CAA0B,W;K;;IAnB5D,sC;MAaI,qD;K;
IAwBO,6D;MAAA,wC;MAAA,4B;K;IAMiC,8D;MAAA,qB;QAAE,OAAM,aAAN,mB;O;K;+CALtC,Y;MACI,Y
AAqB,8BAAT,qBAAS,C;MACrB,IAAI,KAAM,UAAV,C;QACI,OAAO,eAAW,W;;QAElB,OAAkB,YAAX,eAA
W,EAAU,4CAAV,CAA0B,W;K;;IAnB5D,sC;MAaI,qD;K;8FAWJ,yB;MAAA,4C;MAAA,qC;QAOI,OAAO,iBAA
M,OAAN,C;O;KAPX,C;wFAUA,yB;MAAA,+D;MAAA,6B;MAAA,uC;QAYoB,Q;QAFhB,YAAY,gB;QACZ,aA
Aa,gB;QACG,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,UAAU,OAAV,CAAJ,C;YACI,KAAM,W
AAI,OAAJ,C;;YAEN,MAAO,WAAI,OAAJ,C;;;QAGf,OAAO,cAAK,KAAL,EAAY,MAAZ,C;O;KAnBX,C;IAsB
A,oC;MAMI,OAA6C,UAAtC,YAAW,SAAX,EAAiB,YAAW,OAAX,EAAjB,EAAsC,C;K;IAGjD,qC;MASI,OAA
Y,OAAL,SAAK,EAAc,OAAT,QAAS,CAAd,C;K;IAGhB,qC;MASI,OAA+C,UAAxC,YAAW,SAAX,EAA0B,aA
AT,QAAS,CAA1B,EAAwC,C;K;IAGnD,sC;MASI,OAAkC,UAA3B,YAAW,SAAX,EAAiB,QAAjB,EAA2B,C;K;
4FAGtC,yB;MAAA,0C;MAAA,qC;QAOI,OAAO,gBAAK,OAAL,C;O;KAPX,C;IAUA,2D;MAgB+C,oB;QAAA,
OAAY,C;MAAG,8B;QAAA,iBAA0B,K;MACpF,OAAO,8BAAiB,IAAjB,EAAuB,IAAvB,EAA6B,cAA7B,EAA2
D,KAA3D,C;K;IAGX,sE;MAkBkD,oB;QAAA,OAAY,C;MAAG,8B;QAAA,iBAA0B,K;MACvF,OAAwE,OAAjE
,8BAAiB,IAAjB,EAAuB,IAAvB,EAA6B,cAA7B,EAA2D,IAA3D,CAAiE,EAAI,SAAJ,C;K;IAYpC,4B;MAAY,c
AAM,EAAN,C;K;IATpD,kC;MASI,OAAO,oBAAgB,SAAhB,EAAsB,KAAtB,EAA6B,UAA7B,C;K;IAGX,6C;M

AUI,OAAO,oBAAgB,SAAhB,EAAsB,KAAtB,EAA6B,SAA7B,C;K;IAcY,kC;MAAU,aAAK,CAAL,C;K;IAXjC,k
C;MAWI,OAAO,yBAAY,kBAAZ,C;K;IAeiB,wH;MAAA,wC;MAAA,6B;MAAA,yB;MAAA,gD;MAAA,kD;MA
AA,4B;MAAA,2B;MAAA,wB;MAAA,kC;K;;;;sDAAA,Y;;;;;oCACL,sC;cACf,IAAI,CAAC,mBAAS,UAAd,C;gB
AAyB,M;;gBAAzB,gB;;;;;;;mCACc,mBAAS,O;cACvB,gB;;;cAAA,KAAO,mBAAS,UAAhB,C;gBAAA,gB;;;gCA
Ce,mBAAS,O;cACpB,gB;8BAAA,iCAAM,6BAAU,kBAAV,EAAmB,eAAnB,CAAN,O;kBAAA,2C;uBAAA,yB;c
AAA,Q;;cACA,qBAAU,e;cAHd,gB;;;cAKJ,W;;;;;;;;;;;;;K;IATwB,uE;MAAA,yD;uBAAA,4G;YAAA,S;iBAAA,Q;
;iBAAA,uB;O;K;IAZ5B,6C;MAYI,OAAO,SAAS,0CAAT,C;K;IAYX,8F;MAU6D,yB;QAAA,YAA0B,I;MAAM,s
B;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAA
O,yB;QAAA,YAAoC,I;MAGtN,Q;MAFhB,MAAO,gBAAO,MAAP,C;MACP,YAAY,C;MACI,2B;MAAhB,OAAg
B,cAAhB,C;QAAgB,yB;QACZ,IAAI,iCAAU,CAAd,C;UAAiB,MAAO,gBAAO,SAAP,C;QACxB,IAAI,QAAQ,C
AAR,IAAa,SAAS,KAA1B,C;UACW,gBAAP,MAAO,EAAc,OAAd,EAAuB,SAAvB,C;;UACJ,K;;MAEX,IAAI,S
AAS,CAAT,IAAc,QAAQ,KAA1B,C;QAAiC,MAAO,gBAAO,SAAP,C;MACxC,MAAO,gBAAO,OAAP,C;MACP
,OAAO,M;K;IAGX,4F;MAUwC,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E
;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAoC,I;MACjN,OAAO,oBAAO,s
BAAP,EAAwB,SAAxB,EAAmC,MAAnC,EAA2C,OAA3C,EAAoD,KAApD,EAA2D,SAA3D,EAAsE,SAAtE,CA
AiF,W;K;IAOxE,8C;MAAA,mB;QAAE,OAAA,eAAK,W;O;K;IAJ3B,kC;MAII,oCAAgB,8BAAhB,C;K;2FAGJ,q
B;MAKI,OAAO,S;K;IAGX,+B;MASoB,Q;MAFhB,UAAkB,G;MAClB,YAAiB,C;MACD,2B;MAAhB,OAAgB,c
AAhB,C;QAAgB,yB;QACZ,OAAO,O;QACP,oBAAmB,qBAAnB,EAAmB,KAAnB,E;;MAEJ,OAAW,UAAS,CA
Ab,GAAgB,wCAAO,IAAvB,GAAgC,MAAM,K;K;IAGjD,+B;MASoB,Q;MAFhB,UAAkB,G;MAClB,YAAiB,C;
MACD,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,O;QACP,oBAAmB,qBAAnB,EAAmB,KAAnB
,E;;MAEJ,OAAW,UAAS,CAAb,GAAgB,wCAAO,IAAvB,GAAgC,MAAM,K;K;IAGjD,+B;MASoB,Q;MAFhB,U
AAkB,G;MAClB,YAAiB,C;MACD,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,O;QACP,oBAAm
B,qBAAnB,EAAmB,KAAnB,E;;MAEJ,OAAW,UAAS,CAAb,GAAgB,wCAAO,IAAvB,GAAgC,MAAM,K;K;IA
GjD,+B;MASoB,Q;MAFhB,UAAkB,G;MAClB,YAAiB,C;MACD,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QA
CZ,OAAO,O;QACP,oBAAmB,qBAAnB,EAAmB,KAAnB,E;;MAEJ,OAAW,UAAS,CAAb,GAAgB,wCAAO,IAA
vB,GAAgC,MAAM,K;K;IAGjD,+B;MASoB,Q;MAFhB,UAAkB,G;MAClB,YAAiB,C;MACD,2B;MAAhB,OAAg
B,cAAhB,C;QAAgB,yB;QACZ,OAAO,O;QACP,oBAAmB,qBAAnB,EAAmB,KAAnB,E;;MAEJ,OAAW,UAAS,
CAAb,GAAgB,wCAAO,IAAvB,GAAgC,MAAM,K;K;IAGjD,+B;MASoB,Q;MAFhB,UAAkB,G;MAClB,YAAiB,
C;MACD,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,O;QACP,oBAAmB,qBAAnB,EAAmB,KAA
nB,E;;MAEJ,OAAW,UAAS,CAAb,GAAgB,wCAAO,IAAvB,GAAgC,MAAM,K;K;IAGjD,2B;MAQoB,Q;MADh
B,UAAe,C;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,YAAO,O;;MAEX,OAAO,G;K;IAGX,2B;M
AQoB,Q;MADhB,UAAe,C;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,YAAO,O;;MAEX,OAAO,
G;K;IAGX,2B;MAQoB,Q;MADhB,UAAe,C;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,YAAO,O
AAP,I;;MAEJ,OAAO,G;K;IAGX,2B;MAQoB,Q;MADhB,Y;MACgB,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;
QACZ,cAAO,OAAP,C;;MAEJ,OAAO,G;K;IAGX,2B;MAQoB,Q;MADhB,UAAiB,G;MACD,2B;MAAhB,OAAg
B,cAAhB,C;QAAgB,yB;QACZ,OAAO,O;;MAEX,OAAO,G;K;IAGX,2B;MAQoB,Q;MADhB,UAAkB,G;MACF,2
B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,O;;MAEX,OAAO,G;K;IC71FX,qC;MAMI,aAAa,qBAA
iB,YAAY,cAAZ,CAAjB,C;MACb,kBAAc,KAAd,C;MX4zBgB,Q;MAAA,OW3zBT,SX2zBS,W;MAAhB,OAAgB
,cAAhB,C;QAAgB,2B;QAAU,oB;QW3zBK,IAAI,CAAC,SAAD,IAAY,OX2zBX,SW3zBW,UAAhB,C;UAAiC,Y
AAU,I;UAA3C,mBAAiD,K;;UAAjD,mBAA8D,I;;QX2zBvE,qB;UW3zBD,MX2zBqC,WAAI,SAAJ,C;;MW3zB1
D,OAAqB,M;K;IAGzB,sC;MAUI,aAAa,qBAAiB,SAAjB,C;MACN,YAAP,MAAO,EAAU,QAAV,C;MACP,OAA
O,M;K;IAGX,sC;MAUI,YAAqB,gCAAT,QAAS,EAAgC,SAAhC,C;MACrB,IAAI,KAAM,UAAV,C;QACI,OAA
Y,QAAL,SAAK,C;MAChB,IAAI,yBAAJ,C;QACgB,kBAAY,sB;QXixBZ,Q;QAAA,OWjxBL,SXixBK,W;QAAhB
,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,CWjxBwB,qBXixBb,OWjxBa,CXixB5B,C;YAAyB,WAAY,WAAI,
OAAJ,C;;QWjxBvD,OXkxBG,W;OWjxBP,aAAa,qBAAiB,SAAjB,C;MACb,MAAO,mBAAU,KAAV,C;MACP,O
AAO,M;K;IAGX,uC;MAUI,aAAa,qBAAiB,SAAjB,C;MACN,YAAP,MAAO,EAAU,QAAV,C;MACP,OAAO,M;
K;gGAGX,yB;MAAA,8C;MAAA,qC;QAOI,OAAO,iBAAM,OAAN,C;O;KAPX,C;IAUA,qC;MAMI,aAAa,qBAAi
B,YAAY,iBAAO,CAAP,IAAZ,CAAjB,C;MACb,MAAO,gBAAO,SAAP,C;MACP,MAAO,WAAI,OAAJ,C;MAC

P,OAAO,M;K;IAGX,sC;MAOI,aAAa,qBAAiB,YAAY,SAAK,KAAL,GAAY,QAAS,OAArB,IAAZ,CAAjB,C;MA
Cb,MAAO,gBAAO,SAAP,C;MACA,SAAP,MAAO,EAAO,QAAP,C;MACP,OAAO,M;K;IAGX,sC;MAMuD,UA
AT,M;MAA1C,aAAa,qBAAiB,YAAY,WAAS,4BAAT,QAAS,CAAT,YAA4C,cAAL,WAAvC,4BAA2D,SAAK,K
AAL,GAAY,CAAZ,IAAvE,CAAjB,C;MACb,MAAO,gBAAO,SAAP,C;MACA,OAAP,MAAO,EAAO,QAAP,C;
MACP,OAAO,M;K;IAGX,sC;MAOI,aAAa,qBAAiB,YAAY,SAAK,KAAL,GAAY,CAAZ,IAAZ,CAAjB,C;MACb
,MAAO,gBAAO,SAAP,C;MACA,SAAP,MAAO,EAAO,QAAP,C;MACP,OAAO,M;K;8FAGX,yB;MAAA,4C;M
AAA,qC;QAOI,OAAO,gBAAK,OAAL,C;O;KAPX,C;InBnIA,oD;MAMuF,wC;K;IANvF,8CAOI,Y;MAAuC,8B;K
;IAP3C,gF;ICGA,oD;MAQuF,wC;K;IARvF,8CASI,Y;MAAuC,8B;K;IAT3C,gF;gGmBYA,yB;MAAA,uD;MAAA,
gC;MAAA,iD;QAOI,OAAW,SAAS,CAAT,IAAc,SAAS,wBAA3B,GAAsC,qBAAI,KAAJ,CAAtC,GAAsD,uBAA
a,KAAb,E;O;KAPjE,C;gGAUA,yB;MAAA,+C;MAAA,mC;QAOI,OAAY,UAAL,SAAK,EAAU,KAAV,C;O;KAP
hB,C;0EAUA,yB;MA4EA,6C;MAAA,oC;MAAA,gC;MA5EA,uC;QAOW,sB;;UAyES,Q;UAAA,0B;UAAhB,OAA
gB,cAAhB,C;YAAgB,oC;YAAM,IAzEH,SAyEO,CAAU,oBAAV,CAAJ,C;cAAwB,qBAAO,O;cAAP,uB;;UAC9C
,qBAAO,I;;;QA1EP,yB;O;KAPJ,C;kFAUA,yB;MAwJA,mD;MAAA,+C;MAAA,oC;MAxJA,uC;QAOW,qB;;UAuJ
O,Q;UAAA,OAAa,SAAR,sBAAQ,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,qBAAK,KAAL,C;YA
Cd,IAzJc,SAyJV,CAAU,oBAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QA3JP,wB;O;KAPJ,
C;IAUA,6B;MAKI,ICkOgD,qBAAU,CDlO1D,C;QACI,MAAM,2BAAuB,yBAAvB,C;MACV,OAAO,qBAAK,CA
AL,C;K;4EAGX,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,iE;MAAA,uC;QAKoB,Q;QAAA,0B;QAAhB,OA
AgB,cAAhB,C;UAAgB,oC;UAAM,IAAI,UAAU,oBAAV,CAAJ,C;YAAwB,OAAO,O;;QACrD,MAAM,gCAAuB,
6DAAvB,C;O;KANV,C;6FASA,yB;MAAA,iE;MAYA,6C;MAAA,oC;MAAA,gC;MAZA,uC;QASW,Q;QAAA,+B
;;UAYS,U;UAAA,4B;UAAhB,OAAgB,gBAAhB,C;YAAgB,sC;YACZ,aAbwB,SAaX,CAAU,oBAAV,C;YACb,IA
AI,cAAJ,C;cACI,8BAAO,M;cAAP,gC;;UAGR,8BAAO,I;;;QAlBA,kC;QAAA,iB;UAAmC,MAAM,gCAAuB,sEA
AvB,C;SAAhD,OAAO,I;O;KATX,C;yGAYA,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,uC;QASoB,Q;QAAA
,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,aAAa,UAAU,oBAAV,C;UACb,IAAI,cAAJ,C;YACI,OAAO,M
;;QAGf,OAAO,I;O;KAfX,C;IAkBA,mC;MAII,OCkLgD,qBAAU,CDlLnD,GAAe,IAAf,GAAyB,qBAAK,CAAL,C
;K;wFAGpC,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,uC;QAIoB,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;U
AAgB,oC;UAAM,IAAI,UAAU,oBAAV,CAAJ,C;YAAwB,OAAO,O;;QACrD,OAAO,I;O;KALX,C;mFAQA,yB;
MAAA,uD;MAAA,gC;MAAA,iD;QAKI,OAAW,SAAS,CAAT,IAAc,SAAS,wBAA3B,GAAsC,qBAAI,KAAJ,CA
AtC,GAAsD,uBAAa,KAAb,E;O;KALjE,C;IAQA,uC;MAMI,OAAW,SAAS,CAAT,IAAc,SAAS,2BAA3B,GAAsC
,qBAAI,KAAJ,CAAtC,GAAsD,I;K;0FAGjE,yB;MAAA,mD;MAAA,oC;MAAA,uC;QAIkB,gC;QAAA,6B;QAAA,
mB;QAAA,kB;QAAA,kB;QAAd,0D;UACI,IAAI,UAAU,iCAAK,KAAL,EAAV,CAAJ,C;YACI,OAAO,K;;QAGf,
OAAO,E;O;KATX,C;wFAYA,yB;MAAA,mD;MAAA,+C;MAAA,oC;MAAA,uC;QAIkB,Q;QAAA,OAAQ,SAAR
,sBAAQ,CAAR,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,IAAI,UAAU,iCAAK,KAAL,EAAV,CAAJ,C;YACI,O
AAO,K;;QAGf,OAAO,E;O;KATX,C;IAYA,4B;MAQI,ICsHgD,qBAAU,CDtH1D,C;QACI,MAAM,2BAAuB,yBA
AvB,C;MACV,OAAO,qBAAK,2BAAL,C;K;0EAGX,yB;MAAA,mD;MAAA,+C;MAAA,oC;MAAA,iE;MAAA,u
C;QAQkB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,CAAQ,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,cAAc
,qBAAK,KAAL,C;UACd,IAAI,UAAU,oBAAV,CAAJ,C;YAAwB,OAAO,O;;QAEnC,MAAM,gCAAuB,6DAAvB,
C;O;KAZV,C;IAeA,kC;MAMI,OC4FgD,qBAAU,CD5FnD,GAAe,IAAf,GAAyB,qBAAK,mBAAS,CAAT,IAAL,C
;K;sFAGpC,yB;MAAA,mD;MAAA,+C;MAAA,oC;MAAA,uC;QAMkB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,C
AAQ,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,cAAc,qBAAK,KAAL,C;UACd,IAAI,UAAU,oBAAV,CA
AJ,C;YAAwB,OAAO,O;;QAEnC,OAAO,I;O;KAVX,C;8EAaA,yB;MAAA,mC;MAAA,yC;MAAA,4B;QAQI,OA
AO,kBAAO,cAAP,C;O;KARX,C;IAWA,sC;MAOI,IC0DgD,qBAAU,CD1D1D,C;QACI,MAAM,2BAAuB,yBAAv
B,C;MACV,OAAO,qBAAI,MAAO,iBAAQ,gBAAR,CAAX,C;K;0FAGX,yB;MAAA,mC;MAAA,qD;MAAA,4B;
QAOI,OAAO,wBAAa,cAAb,C;O;KAPX,C;IAUA,4C;MAMI,ICqCgD,qBAAU,CDrC1D,C;QACI,OAAO,I;MACX
,OAAO,qBAAI,MAAO,iBAAQ,gBAAR,CAAX,C;K;IAGX,8B;MAIiB,IAAN,I;MAAA,QAAM,gBAAN,C;aACH,
C;UAAK,MAAM,2BAAuB,yBAAvB,C;aACX,C;UAAK,4BAAK,CAAL,C;UAAL,K;gBACQ,MAAM,gCAAyB,0
CAAzB,C;;MAHlB,W;K;8EAOJ,yB;MAAA,6C;MAAA,oC;MAAA,kF;MAAA,gC;MAAA,iE;MAAA,8B;MAAA,
uC;QAMoB,UAST,M;QAXP,aAAoB,I;QACpB,YAAY,K;QACI,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UAC
Z,IAAI,UAAU,oBAAV,CAAJ,C;YACI,IAAI,KAAJ,C;cAAW,MAAM,8BAAyB,wDAAzB,C;YACjB,SAAS,O;YA

CT,QAAQ,I;;QAGhB,IAAI,CAAC,KAAL,C;UAAY,MAAM,gCAAuB,6DAAvB,C;QAElB,OAAO,4E;O;KAfX,C;
IAkBA,oC;MAII,OAAW,qBAAU,CAAd,GAAiB,qBAAK,CAAL,CAAjB,GAA8B,I;K;0FAGzC,yB;MAAA,6C;M
AAA,oC;MAAA,gC;MAAA,uC;QAMoB,Q;QAFhB,aAAoB,I;QACpB,YAAY,K;QACI,0B;QAAhB,OAAgB,cAA
hB,C;UAAgB,oC;UACZ,IAAI,UAAU,oBAAV,CAAJ,C;YACI,IAAI,KAAJ,C;cAAW,OAAO,I;YAClB,SAAS,O;Y
ACT,QAAQ,I;;QAGhB,IAAI,CAAC,KAAL,C;UAAY,OAAO,I;QACnB,OAAO,M;O;KAdX,C;IAiBA,+B;MlBzRI
,IAAI,EkBiSI,KAAK,ClBjST,CAAJ,C;QACI,ckBgSc,wD;QlB/Rd,MAAM,gCAAyB,OAAQ,WAAjC,C;OkBgSV,
OAAO,8BAAc,eAAF,CAAE,EAAa,gBAAb,CAAd,EAAoC,gBAApC,C;K;IAGX,+B;MlBrSI,IAAI,EkB6SI,KAAK
,ClB7ST,CAAJ,C;QACI,ckB4Sc,wD;QlB3Sd,MAAM,gCAAyB,OAAQ,WAAjC,C;OkB4SV,OLhH6E,oBKgH1D,e
AAF,CAAE,EAAa,gBAAb,CLhH0D,C;K;IKmHjF,kC;MlBjTI,IAAI,EkByTI,KAAK,ClBzTT,CAAJ,C;QACI,ckB
wTc,wD;QlBvTd,MAAM,gCAAyB,OAAQ,WAAjC,C;OkBwTV,OAAO,mBAAkB,gBAAZ,mBAAS,CAAT,IAAY
,EAAc,CAAd,CAAlB,C;K;IAGX,mC;MlB7TI,IAAI,EkBqUI,KAAK,ClBrUT,CAAJ,C;QACI,ckBoUc,wD;QlBnUd
,MAAM,gCAAyB,OAAQ,WAAjC,C;OkBoUV,OAAO,mBAAkB,gBAAZ,mBAAS,CAAT,IAAY,EAAc,CAAd,C
AAlB,C;K;2FAGX,yB;MAAA,uD;MAAA,oC;MAAA,uC;QAMI,iBAAc,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,
CAAC,UAAU,iCAAK,KAAL,EAAV,CAAL,C;YACI,OAAO,8BAAY,CAAZ,EAAe,QAAQ,CAAR,IAAf,C;QACf,
OAAO,E;O;KATX,C;4FAYA,yB;MAAA,uD;MAAA,oC;MAAA,uC;QAMI,iBAAc,wBAAd,WAA+B,CAA/B,U;U
ACI,IAAI,CAAC,UAAU,iCAAK,KAAL,EAAV,CAAL,C;YACI,OL5JoF,oBK4JnE,CL5JmE,EK4JhE,QAAQ,CA
AR,IL5JgE,C;WK6J5F,OAAO,E;O;KATX,C;oFAYA,yB;MAAA,mD;MAAA,oC;MAAA,uC;QAMuB,UAAL,MA
AK,EAAL,MAAK,EAAL,M;QAAK,mBAAL,SAAK,C;QAAL,mB;QAAA,kB;QAAA,kB;QAAd,0D;UACI,IAAI,
CAAC,UAAU,iCAAK,KAAL,EAAV,CAAL,C;YACI,OAAO,8BAAY,KAAZ,EAAmB,gBAAnB,C;QACf,OAAO,
E;O;KATX,C;oFAYA,yB;MAAA,mD;MAAA,oC;MAAA,uC;QAMuB,UAAL,MAAK,EAAL,MAAK,EAAL,M;Q
AAK,mBAAL,SAAK,C;QAAL,mB;QAAA,kB;QAAA,kB;QAAd,0D;UACI,IAAI,CAAC,UAAU,iCAAK,KAAL,E
AAV,CAAL,C;YACI,OLvLqE,oBKuLpD,KLvLoD,C;WKwL7E,OAAO,E;O;KATX,C;8EAYA,yB;MAAA,yD;M
AkFA,oC;MAlFA,uC;QAMW,kBAAS,oB;QAkFM,Q;QAAA,uB;QAAtB,iBAAc,CAAd,wB;UACI,cAAc,qBAAI,
KAAJ,C;UACd,IApF6B,SAoFzB,CAAU,oBAAV,CAAJ,C;YAAwB,WAAY,gBAAO,OAAP,C;;QApFxC,OAsFO,
W;O;KA5FX,C;8EASA,yB;MAAA,yD;MAyEA,oC;MAzEA,uC;QAMW,kBAAS,oB;QAyEM,Q;QAAA,uB;QAAt
B,iBAAc,CAAd,wB;UACI,cAAc,qBAAI,KAAJ,C;UACd,IA3E6B,SA2EzB,CAAU,oBAAV,CAAJ,C;YAAwB,WA
AY,gBAAO,OAAP,C;;QA3ExC,OA6EO,WA7EqC,W;O;KANhD,C;4FASA,yB;MAAA,yD;MAsBA,gC;MA+sBA
,6C;MAAA,oC;MAruBA,uC;QAQW,kBAAgB,oB;QAouBV,gB;QADb,YAAY,C;QACC,0B;QAAb,OAAa,cAAb,
C;UAAa,iC;UAAM,eAAO,cAAP,EAAO,sBAAP,S;UAAA,cAAgB,iB;UA7sB/B,IAvBoC,SAuBhC,CAAU,OAAV,
EAAiB,OAAjB,CAAJ,C;YAA2C,2BAAO,kBAAP,C;;QAvB/C,OAyBO,W;O;KAjCX,C;4FAWA,yB;MAAA,yD;
MAWA,gC;MA+sBA,6C;MAAA,oC;MA1tBA,uC;QAQW,kBAAgB,oB;QAytBV,gB;QADb,YAAY,C;QACC,0B;
QAAb,OAAa,cAAb,C;UAAa,iC;UAAM,eAAO,cAAP,EAAO,sBAAP,S;UAAA,cAAgB,iB;UA7sB/B,IAZoC,SAY
hC,CAAU,OAAV,EAAiB,OAAjB,CAAJ,C;YAA2C,2BAAO,kBAAP,C;;QAZ/C,OAcO,WAd4C,W;O;KARvD,C;g
GAWA,yB;MAAA,gC;MA+sBA,6C;MAAA,oC;MA/sBA,oD;QAstBiB,gB;QADb,YAAY,C;QACC,0B;QAAb,OA
Aa,cAAb,C;UAAa,iC;UAAM,eAAO,cAAP,EAAO,sBAAP,S;UAAA,cAAgB,iB;UA7sB/B,IAAI,UAAU,OAAV,E
AAiB,OAAjB,CAAJ,C;YAA2C,2BAAO,kBAAP,C;;QAE/C,OAAO,W;O;KAXX,C;oFAcA,yB;MAAA,yD;MAkB
A,6C;MAAA,oC;MAAA,gC;MAlBA,uC;QAMW,kBAAY,oB;QAkBH,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;U
AAgB,oC;UAAM,IAAI,CAlBU,SAkBT,CAAU,oBAAV,CAAL,C;YAAyB,WAAY,gBAAO,OAAP,C;;QAlB3D,O
AmBO,W;O;KAzBX,C;oFASA,yB;MAAA,yD;MASA,6C;MAAA,oC;MAAA,gC;MATA,uC;QAMW,kBAAY,oB;
QASH,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UAAM,IAAI,CATU,SAST,CAAU,oBAAV,CAAL,C
;YAAyB,WAAY,gBAAO,OAAP,C;;QAT3D,OAUO,WAVwC,W;O;KANnD,C;wFASA,yB;MAAA,6C;MAAA,oC
;MAAA,gC;MAAA,oD;QAMoB,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UAAM,IAAI,CAAC,UAA
U,oBAAV,CAAL,C;YAAyB,WAAY,gBAAO,OAAP,C;;QAC3D,OAAO,W;O;KAPX,C;kFAUA,yB;MAAA,oC;M
AAA,oD;QAM0B,Q;QAAA,uB;QAAtB,iBAAc,CAAd,wB;UACI,cAAc,qBAAI,KAAJ,C;UACd,IAAI,UAAU,oBA
AV,CAAJ,C;YAAwB,WAAY,gBAAO,OAAP,C;;QAExC,OAAO,W;O;KAVX,C;IAaA,sC;MAII,IAAI,OAAQ,UA
AZ,C;QAAuB,OAAO,E;MAC9B,OAAO,yBAAY,OAAZ,C;K;IAGX,sC;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OA
AO,E;MAC9B,OAAO,uBAAU,OAAV,C;K;IAGX,sC;MAOc,Q;MAHV,WAAmB,wBAAR,OAAQ,EAAwB,EAAAx
B,C;MACnB,IAAI,SAAQ,CAAZ,C;QAAe,OAAO,E;MACtB,aAAa,mBAAc,IAAd,C;MACH,yB;MAAV,OAAU,c

AAV,C;QAAU,mB;QACN,MAAO,gBAAO,qBAAI,CAAJ,CAAP,C;;MAEX,OAAO,M;K;4EAGX,yB;MAAA,8B;
MAAA,uC;MAAA,qC;QAKY,Q;QAAR,OAA8B,MAAtB,2DAAsB,EAAM,OAAN,CAAe,W;O;KALjD,C;IAQA,+
B;MlB7fI,IAAI,EkBqgBI,KAAK,ClBrgBT,CAAJ,C;QACI,ckBogBc,wD;QlBngBd,MAAM,gCAAyB,OAAQ,WA
AjC,C;OkBogBV,OAAO,8BAAY,CAAZ,EAAiB,eAAF,CAAE,EAAa,gBAAb,CAAjB,C;K;IAGX,+B;MlBzgBI,IA
AI,EkBihBI,KAAK,ClBjhBT,CAAJ,C;QACI,ckBghBc,wD;QlB/gBd,MAAM,gCAAyB,OAAQ,WAAjC,C;OkBgh
BV,OLjV4F,oBKiV3E,CLjV2E,EKiVtE,eAAF,CAAE,EAAa,gBAAb,CLjVsE,C;K;IKoVhG,kC;MlBrhBI,IAAI,Ek
B6hBI,KAAK,ClB7hBT,CAAJ,C;QACI,ckB4hBc,wD;QlB3hBd,MAAM,gCAAyB,OAAQ,WAAjC,C;OkB4hBV,a
AAa,gB;MACb,OAAO,8BAAY,SAAW,eAAF,CAAE,EAAa,MAAb,CAAX,IAAZ,EAA6C,MAA7C,C;K;IAGX,m
C;MlBliBI,IAAI,EkB0iBI,KAAK,ClB1iBT,CAAJ,C;QACI,ckByiBc,wD;QlBxiBd,MAAM,gCAAyB,OAAQ,WAA
jC,C;OkByiBV,aAAa,gB;MACb,OL9W6E,oBK8W5D,SAAW,eAAF,CAAE,EAAa,MAAb,CAAX,IL9W4D,C;K;2
FKiXjF,yB;MAAA,uD;MAAA,oC;MAAA,uC;QAMI,iBAAc,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UA
AU,iCAAK,KAAL,EAAV,CAAL,C;YACI,OAAO,8BAAY,QAAQ,CAAR,IAAZ,EAAuB,gBAAvB,C;;QAGf,OA
AO,8BAAY,CAAZ,EAAe,gBAAf,C;O;KAXX,C;4FAcA,yB;MAAA,uD;MAAA,oC;MAAA,uC;QAMI,iBAAc,wB
AAd,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,iCAAK,KAAL,EAAV,CAAL,C;YACI,OLvYqE,oBKuYpD,
QAAQ,CAAR,ILvYoD,C;;QK0Y7E,OAAO,S;O;KAXX,C;oFAcA,yB;MAAA,oC;MAAA,uC;QAM0B,Q;QAAA,u
B;QAAtB,iBAAc,CAAd,wB;UACI,IAAI,CAAC,UAAU,iCAAI,KAAJ,EAAV,CAAL,C;YACI,OAAO,8BAAY,CA
AZ,EAAe,KAAf,C;WAEf,OAAO,8BAAY,CAAZ,EAAe,gBAAf,C;O;KAVX,C;oFAaA,yB;MAAA,oC;MAAA,uC;
QAM0B,Q;QAAA,uB;QAAtB,iBAAc,CAAd,wB;UACI,IAAI,CAAC,UAAU,iCAAI,KAAJ,EAAV,CAAL,C;YACI
,OL/ZoF,oBK+ZnE,CL/ZmE,EK+ZhE,KL/ZgE,C;WKia5F,OAAO,S;O;KAVX,C;IAaA,gC;MAII,OAAO,qBAAc,S
AAd,CAAoB,U;K;kFAG/B,yB;MAAA,8B;MAAA,6C;MAAA,4B;QAKY,Q;QAAR,OAA8B,SAAtB,2DAAsB,CA
AW,W;O;KAL7C,C;oFAQA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MA4EA,6C;MAAA,oC;MAAA,gC;MA5EA,u
C;QAWI,eAAmC,cAApB,YAAY,gBAAZ,CAAoB,EAAc,EAAd,C;QAC5B,kBAAY,mBAAoB,QAApB,C;QAyEH
,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,WA1E8C,SA0E/B,CAAU,oBAAV,C;UzB9EnB,wB
AAI,IAAK,MAAT,EAAgB,IAAK,OAArB,C;;QyBIA,OA4EO,W;O;KAxFX,C;wFAeA,yB;MAAA,0D;MAAA,yD;
MAAA,uE;MA6BA,6C;MAAA,oC;MAAA,gC;MA7BA,yC;QAWI,eAAmC,cAApB,YAAY,gBAAZ,CAAoB,EAA
c,EAAd,C;QAC5B,kBAAc,mBAAuB,QAAvB,C;QA2BL,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;U
ACZ,WAAY,aA5BuC,WA4BnC,CAAY,oBAAZ,CAAJ,EAA0B,oBAA1B,C;;QA5BhB,OA8BO,W;O;KA1CX,C;w
FAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MA8BA,6C;MAAA,oC;MAAA,gC;MA9BA,yD;QAUI,eAAmC,cAA
pB,YAAY,gBAAZ,CAAoB,EAAc,EAAd,C;QAC5B,kBAAc,mBAAoB,QAApB,C;QA6BL,Q;QAAA,0B;QAAhB,
OAAgB,cAAhB,C;UAAgB,oC;UACZ,WAAY,aA9BoC,WA8BhC,CAAY,oBAAZ,CAAJ,EA9BiD,cA8BvB,CAAe
,oBAAf,CAA1B,C;;QA9BhB,OAgCO,W;O;KA3CX,C;4FAcA,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,sD;
QAUoB,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,WAAY,aAAI,YAAY,oBAAZ,CAAJ,EAA0
B,oBAA1B,C;;QAEhB,OAAO,W;O;KAbX,C;4FAgBA,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,sE;QAUoB,
Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,WAAY,aAAI,YAAY,oBAAZ,CAAJ,EAA0B,eAAe,o
BAAf,CAA1B,C;;QAEhB,OAAO,W;O;KAbX,C;wFAgBA,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,oD;QAS
oB,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,WAAe,UAAU,oBAAV,C;UzB9EnB,wBAAI,IAA
K,MAAT,EAAgB,IAAK,OAArB,C;;QyBgFA,OAAO,W;O;KAZX,C;4FAeA,yB;MAAA,uD;MAAA,0D;MAAA,y
D;MAAA,uE;MAgBA,6C;MAAA,oC;MAAA,gC;MAhBA,2C;QAYI,aAAa,mBAA6D,cAAtC,YAAmB,aAAP,gB
AAO,EAAa,GAAb,CAAnB,CAAsC,EAAc,EAAd,CAA7D,C;QAcG,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UA
AgB,oC;UAbO,MAcP,aAAI,oBAAJ,EAde,aAcF,CAAc,oBAAd,CAAb,C;;QAdhB,OAAuB,M;O;KAb3B,C;+FAgB
A,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,wD;QAUoB,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,o
C;UACZ,WAAY,aAAI,oBAAJ,EAAa,cAAc,oBAAd,CAAb,C;;QAEhB,OAAO,W;O;KAbX,C;IAgBA,iD;MAIiB,
Q;MAAA,4B;MAAb,OAAa,cAAb,C;QAAa,iC;QACT,WAAY,WAAI,iBAAJ,C;;MAEhB,OAAO,W;K;IAGX,iC;M
AII,OAAO,2BAAa,eAAc,YAAmB,eAAP,gBAAO,EAAa,GAAb,CAAnB,CAAd,CAAb,C;K;IAGX,8B;MAIiB,IAA
N,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,kB;UAAL,K;aACA,C;UAAK,cAAO,iCAAK,CAAL,EAAP,C;UA
AL,K;gBACa,wBAAL,SAAK,C;UAHV,K;;MAAP,W;K;IAOJ,qC;MAII,OAAO,2BAAa,iBAAgB,gBAAhB,CAAb,
C;K;IAGX,6B;MAMiB,IAAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,iB;UAAL,K;aACA,C;UAAK,aAAM,i
CAAK,CAAL,EAAN,C;UAAL,K;gBACQ,kCAAa,qBAAoB,YAAmB,eAAP,gBAAO,EAAa,GAAb,CAAnB,CAA

pB,CAAb,C;UAHL,K;;MAAP,W;K;gFAOJ,yB;MAAA,+D;MA0CA,6C;MAAA,oC;MAAA,gD;MAAA,gC;MA1C
A,uC;QAMW,kBAAU,gB;QAwCD,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,WAzC6B,SAyCl
B,CAAU,oBAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA1ChB,OA4CO,W;O;KAlDX,C;8FASA,yB;MAAA
,+D;MAeA,6C;MAAA,oC;MAAA,gD;MAAA,gC;MAfA,uC;QAYW,kBAAiB,gB;QAcR,gB;QADhB,YAAY,C;Q
ACI,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,WAfoC,SAezB,EAAU,cAAV,EAAU,sBAAV,WAAmB,o
BAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAhBhB,OAkBO,W;O;KA9BX,C;kGAeA,yB;MAAA,6C;MA
AA,oC;MAAA,gD;MAAA,gC;MAAA,oD;QAWoB,UACS,M;QAFzB,YAAY,C;QACI,0B;QAAhB,OAAgB,cAAh
B,C;UAAgB,oC;UACZ,WAAW,WAAU,cAAV,EAAU,sBAAV,WAAmB,oBAAnB,C;UACC,OAAZ,WAAY,EAA
O,IAAP,C;;QAEhB,OAAO,W;O;KAfX,C;oFAkBA,yB;MAAA,6C;MAAA,oC;MAAA,gD;MAAA,gC;MAAA,oD;
QAIoB,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,WAAW,UAAU,oBAAV,C;UACC,OAAZ,W
AAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KARX,C;gFAWA,yB;MAAA,wE;MAyBA,6C;MAAA,oC;MAAA,+D
;MAAA,gC;MAzBA,yC;QASW,kBAAU,oB;QAyBD,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ
,UA1BoD,WA0B1C,CAAY,oBAAZ,C;UzBrjBP,U;UADP,YyBujBe,WzBvjBH,WyBujBwB,GzBvjBxB,C;UACL,I
AAI,aAAJ,C;YACH,ayBqjBuC,gB;YAA5B,WzBpjBX,ayBojBgC,GzBpjBhC,EAAS,MAAT,C;YACA,e;;YAEA,c;
;UyBijBA,iB;UACA,IAAK,WAAI,oBAAJ,C;;QA5BT,OA8BO,W;O;KAvCX,C;gFAYA,yB;MAAA,wE;MA8BA,6
C;MAAA,oC;MAAA,+D;MAAA,gC;MA9BA,yD;QAUW,kBAAU,oB;QA8BD,Q;QAAA,0B;QAAhB,OAAgB,cA
AhB,C;UAAgB,oC;UACZ,UA/BiD,WA+BvC,CAAY,oBAAZ,C;UzBvkBP,U;UADP,YyBykBe,WzBzkBH,WyBy
kBwB,GzBzkBxB,C;UACL,IAAI,aAAJ,C;YACH,ayBukBuC,gB;YAA5B,WzBtkBX,ayBskBgC,GzBtkBhC,EAAS
,MAAT,C;YACA,e;;YAEA,c;;UyBmkBA,iB;UACA,IAAK,WAjCyD,cAiCrD,CAAe,oBAAf,CAAJ,C;;QAjCT,OA
mCO,W;O;KA7CX,C;oFAaA,yB;MAAA,6C;MAAA,oC;MAAA,+D;MAAA,gC;MAAA,sD;QASoB,Q;QAAA,0B;
QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,UAAU,YAAY,oBAAZ,C;UzBrjBP,U;UADP,YyBujBe,WzBvjBH,
WyBujBwB,GzBvjBxB,C;UACL,IAAI,aAAJ,C;YACH,ayBqjBuC,gB;YAA5B,WzBpjBX,ayBojBgC,GzBpjBhC,E
AAS,MAAT,C;YACA,e;;YAEA,c;;UyBijBA,iB;UACA,IAAK,WAAI,oBAAJ,C;;QAET,OAAO,W;O;KAdX,C;oF
AiBA,yB;MAAA,6C;MAAA,oC;MAAA,+D;MAAA,gC;MAAA,sE;QAUoB,Q;QAAA,0B;QAAhB,OAAgB,cAAh
B,C;UAAgB,oC;UACZ,UAAU,YAAY,oBAAZ,C;UzBvkBP,U;UADP,YyBykBe,WzBzkBH,WyBykBwB,GzBzkB
xB,C;UACL,IAAI,aAAJ,C;YACH,ayBukBuC,gB;YAA5B,WzBtkBX,ayBskBgC,GzBtkBhC,EAAS,MAAT,C;YA
CA,e;;YAEA,c;;UyBmkBA,iB;UACA,IAAK,WAAI,eAAe,oBAAf,CAAJ,C;;QAET,OAAO,W;O;KAfX,C;qFAkB
A,yB;MAAA,6C;MAAA,oC;MAAA,kC;MAAA,4C;MAAA,wE;QAQW,sC;QAAA,8C;O;MARX,oDASQ,Y;QAA
gD,OAAgB,SAAhB,oBAAgB,C;O;MATxE,iDAUQ,mB;QAAuC,gCAAY,oBAAZ,C;O;MAV/C,gF;MAAA,yC;Q
AQI,2D;O;KARJ,C;wEAcA,yB;MAAA,gE;MAyEA,6C;MAAA,oC;MAAA,gC;MAzEA,uC;QAOW,kBAAM,eAA
a,gBAAb,C;QAuEA,Q;QAAA,0B;QAAb,OAAa,cAAb,C;UAAa,iC;UACT,WAAY,WAxEmB,SAwEf,CAAU,iBA
AV,CAAJ,C;;QAxEhB,OAyEO,W;O;KAhFX,C;sFAUA,yB;MAAA,gE;MA+BA,6C;MAAA,oC;MAAA,gC;MA/B
A,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAgCP,gB;QADb,YAAY,C;QACC,0B;QAAb,OAAa,cAAb,C;UAAa,iC;U
ACT,WAAY,WAjC0B,SAiCtB,EAAU,cAAV,EAAU,sBAAV,WAAmB,iBAAnB,CAAJ,C;;QAjChB,OAkCO,W;O
;KAzCX,C;mGAUA,yB;MAAA,+D;MAUA,gC;MAoLA,6C;MAAA,oC;MA9LA,uC;QAOW,kBAAoB,gB;QA8Ld
,gB;QADb,YAAY,C;QACC,0B;QAAb,OAAa,cAAb,C;UAAa,iC;UApLsB,U;UAAA,cAVQ,SAUR,EAoLT,cApLS,
EAoLT,sBApLS,WAoLA,iBApLA,W;YAA6C,6B;;QAVhF,OAWO,W;O;KAlBX,C;uGAUA,yB;MAAA,gC;MAo
LA,6C;MAAA,oC;MApLA,oD;QA2LiB,gB;QADb,YAAY,C;QACC,0B;QAAb,OAAa,cAAb,C;UAAa,iC;UApLsB
,U;UAAA,yBAoLT,cApLS,EAoLT,sBApLS,WAoLA,iBApLA,W;YAA6C,6B;;QAChF,OAAO,W;O;KARX,C;0F
AWA,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,oD;QAQiB,UACiB,M;QAF9B,YAAY,C;QACC,0B;QAAb,O
AAa,cAAb,C;UAAa,iC;UACT,WAAY,WAAI,WAAU,cAAV,EAAU,sBAAV,WAAmB,iBAAnB,CAAJ,C;;QACh
B,OAAO,W;O;KAVX,C;qFAaA,yB;MAAA,+D;MAUA,gC;MA2IA,6C;MAAA,oC;MArJA,uC;QAOW,kBAAa,g
B;QAkJJ,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UA1IK,U;UAAA,cARe,SAQf,CA0IQ,oBA1IR,W;
YAAsC,6B;;QAR3D,OASO,W;O;KAhBX,C;yFAUA,yB;MAAA,gC;MA2IA,6C;MAAA,oC;MA3IA,oD;QA+IoB,
Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UA1IK,U;UAAA,wBA0IQ,oBA1IR,W;YAAsC,6B;;QAC3D
,OAAO,W;O;KANX,C;4EASA,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,oD;QAKiB,Q;QAAA,0B;QAAb,O
AAa,cAAb,C;UAAa,iC;UACT,WAAY,WAAI,UAAU,iBAAV,CAAJ,C;;QAChB,OAAO,W;O;KAPX,C;IAe4B,4C;
MAAA,mB;QAAE,iC;O;K;IAL9B,iC;MAKI,OAAO,qBAAiB,6BAAjB,C;K;wEAGX,yB;MAAA,6C;MAAA,oC;M

AAA,gC;MAAA,uC;QAMoB,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UAAM,IAAI,CAAC,UAAU,o
BAAV,CAAL,C;YAAyB,OAAO,K;;QACtD,OAAO,I;O;KAPX,C;IAUA,2B;MAMI,OAAO,ECrwByC,qBAAU,C
DqwBnD,C;K;wEAGX,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,uC;QAMoB,Q;QAAA,0B;QAAhB,OAAgB,
cAAhB,C;UAAgB,oC;UAAM,IAAI,UAAU,oBAAV,CAAJ,C;YAAwB,OAAO,I;;QACrD,OAAO,K;O;KAPX,C;4E
AUA,qB;MAKI,OAAO,gB;K;4EAGX,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,uC;QAKoB,Q;QADhB,YAA
Y,C;QACI,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UAAM,IAAI,UAAU,oBAAV,CAAJ,C;YAAwB,qB;;QAC9
C,OAAO,K;O;KANX,C;0EASA,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,gD;QAUoB,Q;QADhB,kBAAkB,
O;QACF,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UAAM,cAAc,UAAU,WAAV,EAAAuB,oBAAvB,C;;QACpC,
OAAO,W;O;KAXX,C;wFAcA,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,gD;QAYoB,UAA8B,M;QAF9C,YA
AY,C;QACZ,kBAAkB,O;QACF,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UAAM,cAAc,WAAU,cAAV,EAAU,
sBAAV,WAAmB,WAAnB,EAAgC,oBAAhC,C;;QACpC,OAAO,W;O;KAbX,C;mFAgBA,yB;MAAA,uD;MAAA,
oC;MAAA,gD;QAYoC,Q;QAHhC,YAAY,wB;QACZ,kBAAkB,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,
UAAU,kCAAI,YAAJ,EAAI,oBAAJ,SAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAdX,C;iGAiBA,yB;MAA
A,uD;MAAA,oC;MAAA,gD;QAUI,YAAY,wB;QACZ,kBAAkB,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,
UAAU,KAAV,EAAiB,iCAAI,KAAJ,EAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KAhBX,C;gFAm
BA,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,oC;QAIoB,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,o
C;UAAM,OAAO,oBAAP,C;;O;KAJ1B,C;8FAOA,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,oC;QAOiB,UAA
a,M;QAD1B,YAAY,C;QACC,0B;QAAb,OAAa,cAAb,C;UAAa,iC;UAAM,QAAO,cAAP,EAAO,sBAAP,WAAgB,
iBAAhB,C;;O;KAPvB,C;IAUA,2B;MAGI,OAAO,uB;K;4EAGX,yB;MAMA,uD;MAAA,oC;MANA,sC;QAGW,s
B;;UAUP,ICz4BgD,qBAAU,CDy4B1D,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,qBAAK,CAAL,C;UACd,gBA
AqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAdmB,QAcJ,CAAS,oBAAT,C;U
ACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,qBAAK,CAAL,C;YACR,QAjBe,QAiBP,CAAS,cAAT,C;YACR
,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QAvBP,yB;O;KAHJ,C;w
FAMA,yB;MAAA,uD;MAAA,oC;MAAA,sC;QAOI,ICz4BgD,qBAAU,CDy4B1D,C;UAAe,OAAO,I;QACtB,cAA
c,qBAAK,CAAL,C;QACd,gBAAqB,cAAL,SAAK,C;QACrB,IAAI,cAAa,CAAjB,C;UAAoB,OAAO,O;QAC3B,eA
Ae,SAAS,oBAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,qBAAK,CAAL,C;UACR,QAAQ,SAAS,
cAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,OAAO,O;O;KApBX,
C;4EAuBA,yB;MAAA,sE;MAAA,oC;MAAA,uD;MdznCA,iB;McynCA,sC;QAeiB,Q;QAFb,ICt6BgD,qBAAU,CD
s6B1D,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,iCAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UA
CI,QAAQ,SAAS,iCAAK,CAAL,EAAT,C;UACR,WdloCG,MAAO,KckoCO,QdloCP,EckoCiB,CdloCjB,C;;QcooC
d,OAAO,Q;O;KAnBX,C;4EAsBA,yB;MAAA,sE;MAAA,oC;MAAA,uD;Md1pCA,iB;Mc0pCA,sC;QAeiB,Q;QAF
b,IC57BgD,qBAAU,CD47B1D,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,iCAAK,CAAL,EAAT,C;QACF,+B;QA
Ab,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,EAAT,C;UACR,WdnqCG,MAAO,KcmqCO,QdnqCP,Ec
mqCiB,CdnqCjB,C;;QcqqCd,OAAO,Q;O;KAnBX,C;4EAsBA,yB;MAAA,sE;MAAA,oC;MAAA,uD;MAAA,sC;Q
AaiB,Q;QAFb,ICh9BgD,qBAAU,CDg9B1D,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,iCAAK,CAAL,EAAT,C;Q
ACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,EAAT,C;UACR,IAAI,2BAAW,CAAX,KA
AJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;wFAsBA,yB;MAAA,oC;MAAA,uD;Md3rCA,iB;Mc2rCA
,sC;QAaiB,Q;QAFb,ICt+BgD,qBAAU,CDs+B1D,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,iCAAK,CAAL,EAAT,C
;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,EAAT,C;UACR,WdlsCG,MAAO,KcksC
O,QdlsCP,EcksCiB,CdlsCjB,C;;QcosCd,OAAO,Q;O;KAjBX,C;wFAoBA,yB;MAAA,oC;MAAA,uD;Md1tCA,iB;
Mc0tCA,sC;QAaiB,Q;QAFb,IC1/BgD,qBAAU,CD0/B1D,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,iCAAK,CAAL,
EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,EAAT,C;UACR,WdjuCG,MAA
O,KciuCO,QdjuCP,EciuCiB,CdjuCjB,C;;QcmuCd,OAAO,Q;O;KAjBX,C;wFAoBA,yB;MAAA,oC;MAAA,uD;M
AAA,sC;QAWiB,Q;QAFb,IC5gCgD,qBAAU,CD4gC1D,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,iCAAK,CAAL,E
AAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,EAAT,C;UACR,IAAI,2BAAW,C
AAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;oFAoBA,yB;MAAA,sE;MAAA,oC;MAAA,uD;
MAAA,kD;QAaiB,Q;QAFb,ICliCgD,qBAAU,CDkiC1D,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,iCAAK,CAAL
,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,EAAT,C;UACR,IAAI,UAAW,S

AAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;gGAs
BA,yB;MAAA,oC;MAAA,uD;MAAA,kD;QAWiB,Q;QAFb,ICtjCgD,qBAAU,CDsjC1D,C;UAAe,OAAO,I;QACt
B,eAAe,SAAS,iCAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,E
AAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;QAGnB
,OAAO,Q;O;KAjBX,C;IAoBA,iC;MAOiB,Q;MAFb,ICtkCgD,qBAAU,CDskC1D,C;QAAe,OAAO,I;MACtB,UAA
U,qBAAK,CAAL,C;MACG,kC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,qBAAK,CAAL,C;QACR,IAAI,MAAM,C
AAV,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,2C;MAGI,OAAO,4BAAc,UAAd,C;K;IAGX,iD;MAOiB,Q;
MAFb,IC1lCgD,qBAAU,CD0lC1D,C;QAAe,OAAO,I;MACtB,UAAU,qBAAK,CAAL,C;MACG,kC;MAAb,aAAU
,CAAV,iB;QACI,QAAQ,qBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,gBAAR,EAAa,cAAb,CAAX,GAA6B,CA
AjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,2B;MAGI,OAAO,uB;K;4EAGX,yB;MAMA,uD;MAAA,o
C;MANA,sC;QAGW,sB;;UAUP,ICtnCgD,qBAAU,CDsnC1D,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,qBAAK
,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAdmB,QA
cJ,CAAS,oBAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,qBAAK,CAAL,C;YACR,QAjBe,QAiBP,
CAAS,cAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;Q
AvBP,yB;O;KAHJ,C;wFAMA,yB;MAAA,uD;MAAA,oC;MAAA,sC;QAOI,ICtnCgD,qBAAU,CDsnC1D,C;UAAe
,OAAO,I;QACtB,cAAc,qBAAK,CAAL,C;QACd,gBAAqB,cAAL,SAAK,C;QACrB,IAAI,cAAa,CAAjB,C;UAAo
B,OAAO,O;QAC3B,eAAe,SAAS,oBAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,qBAAK,CAAL,
C;UACR,QAAQ,SAAS,cAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAG
nB,OAAO,O;O;KApBX,C;4EAuBA,yB;MAAA,sE;MAAA,oC;MAAA,uD;MdlpCA,iB;MckpCA,sC;QAeiB,Q;QA
Fb,ICnpCgD,qBAAU,CDmpC1D,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,iCAAK,CAAL,EAAT,C;QACF,+B;Q
AAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,EAAT,C;UACR,Wd3pCG,MAAO,Kc2pCO,Qd3pCP,E
c2pCiB,Cd3pCjB,C;;Qc6pCd,OAAO,Q;O;KAnBX,C;4EAsBA,yB;MAAA,sE;MAAA,oC;MAAA,uD;MdnrCA,iB;
McmrCA,sC;QAeiB,Q;QAFb,ICzqCgD,qBAAU,CDyqC1D,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,iCAAK,CA
AL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,EAAT,C;UACR,Wd5rCG,M
AAO,Kc4rCO,Qd5rCP,Ec4rCiB,Cd5rCjB,C;;Qc8rCd,OAAO,Q;O;KAnBX,C;4EAsBA,yB;MAAA,sE;MAAA,oC;
MAAA,uD;MAAA,sC;QAaiB,Q;QAFb,IC7rCgD,qBAAU,CD6rC1D,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,iC
AAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,EAAT,C;UACR,IA
AI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAnBX,C;wFAsBA,yB;MAAA,oC;MAAA,u
D;MdptCA,iB;McotCA,sC;QAaiB,Q;QAFb,ICntCgD,qBAAU,CDmtC1D,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,i
CAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,EAAT,C;UACR,
Wd3tCG,MAAO,Kc2tCO,Qd3tCP,Ec2tCiB,Cd3tCjB,C;;Qc6tCd,OAAO,Q;O;KAjBX,C;wFAoBA,yB;MAAA,oC;
MAAA,uD;MdnvCA,iB;McmvCA,sC;QAaiB,Q;QAFb,ICvuCgD,qBAAU,CDuuC1D,C;UAAe,OAAO,I;QACtB,eA
Ae,SAAS,iCAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,EAAT
,C;UACR,Wd1vCG,MAAO,Kc0vCO,Qd1vCP,Ec0vCiB,Cd1vCjB,C;;Qc4vCd,OAAO,Q;O;KAjBX,C;wFAoBA,yB
;MAAA,oC;MAAA,uD;MAAA,sC;QAWiB,Q;QAFb,ICzvCgD,qBAAU,CDyvC1D,C;UAAe,OAAO,I;QACtB,eAA
e,SAAS,iCAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,EAAT,C
;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;oFAoBA,yB;MAAA,sE;
MAAA,oC;MAAA,uD;MAAA,kD;QAaiB,Q;QAFb,IC/wCgD,qBAAU,CD+wC1D,C;UAAe,MAAM,6B;QACrB,e
AAe,SAAS,iCAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,EAA
T,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;QAGnB,O
AAO,Q;O;KAnBX,C;gGAsBA,yB;MAAA,oC;MAAA,uD;MAAA,kD;QAWiB,Q;QAFb,ICnyCgD,qBAAU,CDmy
C1D,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,iCAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,Q
AAQ,SAAS,iCAAK,CAAL,EAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC
,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjBX,C;IAoBA,iC;MAOiB,Q;MAFb,ICnzCgD,qBAAU,CDmzC1D,C
;QAAe,OAAO,I;MACtB,UAAU,qBAAK,CAAL,C;MACG,kC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,qBAAK,CA
AL,C;QACR,IAAI,MAAM,CAAV,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,2C;MAGI,OAAO,4BAAc,UA
Ad,C;K;IAGX,iD;MAOiB,Q;MAFb,ICv0CgD,qBAAU,CDu0C1D,C;QAAe,OAAO,I;MACtB,UAAU,qBAAK,CA
AL,C;MACG,kC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,qBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,gBAAR,E

AAa,cAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,4B;MAMI,OCt1CgD,qBA
AU,C;K;0EDy1C9D,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,uC;QAMoB,Q;QAAA,0B;QAAhB,OAAgB,cA
AhB,C;UAAgB,oC;UAAM,IAAI,UAAU,oBAAV,CAAJ,C;YAAwB,OAAO,K;;QACrD,OAAO,I;O;KAPX,C;8EA
UA,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,oC;QAKmC,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,
oC;UAAM,OAAO,oBAAP,C;;QAArC,gB;O;KALJ,C;4FAQA,yB;MAAA,6B;MAAA,sC;MA/fA,6C;MAAA,oC;M
AAA,gC;MA+fA,2BAQiB,yB;QAvgBjB,6C;QAAA,oC;QAAA,gC;eAugBiB,0B;UAAA,4B;YAAE,aAAe,c;YAhg
BjB,gB;YADb,YAAY,C;YACC,0B;YAAb,OAAa,cAAb,C;cAAa,iC;cAAM,QAAO,cAAP,EAAO,sBAAP,WAAgB
,iBAAhB,C;;YAggBmB,W;W;S;OAAzB,C;MARjB,oC;QAxfiB,gB;QADb,YAAY,C;QACC,0B;QAAb,OAAa,cA
Ab,C;UAAa,iC;UAAM,QAAO,cAAP,EAAO,sBAAP,WAAgB,iBAAhB,C;;QAggBnB,gB;O;KARJ,C;8EAWA,yB;
MAAA,4F;MAAA,uD;MAAA,oC;MAAA,gC;MAAA,uC;QAgBqB,Q;QAHjB,ICn4CgD,qBAAU,CDm4C1D,C;U
ACI,MAAM,mCAA8B,uCAA9B,C;QACV,kBAAkB,qBAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UAC
I,cAAc,oBAAU,wBAAV,EAAAuB,iCAAK,KAAL,EAAvB,E;;QAElB,OAAO,W;O;KAnBX,C;4FAsBA,yB;MAAA,
4F;MAAA,uD;MAAA,oC;MAAA,gC;MAAA,uC;QAgBqB,Q;QAHjB,ICz5CgD,qBAAU,CDy5C1D,C;UACI,MA
AM,mCAA8B,uCAA9B,C;QACV,kBAAkB,qBAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,
oBAAU,KAAV,EAAiB,wBAAjB,EAA8B,iCAAK,KAAL,EAA9B,E;;QAElB,OAAO,W;O;KAnBX,C;wGAsBA,y
B;MAAA,uD;MAAA,oC;MAAA,gC;MAAA,uC;QAgBqB,Q;QAHjB,IC/6CgD,qBAAU,CD+6C1D,C;UACI,OAA
O,I;QACX,kBAAkB,qBAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,oBAAU,KAAV,EAAiB,
wBAAjB,EAA8B,iCAAK,KAAL,EAA9B,E;;QAElB,OAAO,W;O;KAnBX,C;0FAsBA,yB;MAAA,uD;MAAA,oC;
MAAA,gC;MAAA,uC;QAiBqB,Q;QAHjB,ICt8CgD,qBAAU,CDs8C1D,C;UACI,OAAO,I;QACX,kBAAkB,qBAA
K,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,oBAAU,wBAAV,EAAAuB,iCAAK,KAAL,EAAvB,
E;;QAElB,OAAO,W;O;KApBX,C;uFAuBA,yB;MAAA,uD;MAAA,4F;MAAA,oC;MAAA,gC;MAAA,uC;QAe0B,
UAEU,M;QAJhC,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,uCAA9B,C;QACrB,kBAAk
B,sBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAc,oBAAU,kCAAI,cAAJ,EAAI,sBA
AJ,WAAV,EAAwB,wBAAxB,E;;QAElB,OAAO,W;O;KAnBX,C;qGAsBA,yB;MAAA,uD;MAAA,4F;MAAA,oC;
MAAA,gC;MAAA,uC;QAe0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,uCA
A9B,C;QACrB,kBAAkB,sBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,oBAAU,K
AAV,EAAiB,iCAAI,KAAJ,EAAjB,EAA6B,wBAA7B,E;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;iHAuBA,yB;M
AAA,uD;MAAA,oC;MAAA,gC;MAAA,uC;QAe0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,O
AAO,I;QACtB,kBAAkB,sBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,oBAAU,K
AAV,EAAiB,iCAAI,KAAJ,EAAjB,EAA6B,wBAA7B,E;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;mGAuBA,yB;
MAAA,uD;MAAA,oC;MAAA,gC;MAAA,uC;QAgB0B,UAEU,M;QAJhC,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,
C;UAAe,OAAO,I;QACtB,kBAAkB,sBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,
oBAAU,kCAAI,cAAJ,EAAI,sBAAJ,WAAV,EAAwB,wBAAxB,E;;QAElB,OAAO,W;O;KApBX,C;wFAuBA,yB;
MAAA,gD;MAAA,gE;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,gD;QAgBoB,Q;QAHhB,ICvjDgD,qBAAU,CDu
jD1D,C;UAAe,OAAO,OAAO,OAAP,C;QACCgB,kBAAzB,eAAa,mBAAS,CAAT,IAAb,C;QAAiC,8B;QAA9C,af5
wDO,W;Qe6wDP,kBAAkB,O;QACF,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,cAAc,UAAU,WAAV,EA
AuB,oBAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KApBX,C;sGAuBA,yB;MAAA,gD;MAAA
,gE;MAAA,mD;MAAA,oC;MAAA,gD;QAiBkB,gC;QAHd,IC/kDgD,qBAAU,CD+kD1D,C;UAAe,OAAO,OAAO,
OAAP,C;QACgB,kBAAzB,eAAa,mBAAS,CAAT,IAAb,C;QAAiC,8B;QAA9C,afpyDO,W;QeqyDP,kBAAkB,O;Q
ACJ,6B;QAAA,mB;QAAA,kB;QAAA,kB;QAAd,0D;UACI,cAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,iCAA
K,KAAL,EAA9B,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;4FAwBA,yB;MAAA,qD;MA
AA,gE;MAAA,oC;MAAA,gC;MAAA,uC;QAgB0B,Q;QAHtB,ICtmDgD,qBAAU,CDsmD1D,C;UAAe,OAAO,W;
QACtB,sBAAkB,qBAAK,CAAL,CAAlB,C;QACqC,kBAAxB,eAAgB,gBAAhB,C;QAAgC,sBAAI,0BAAJ,C;QA
A7C,af5zDO,W;Qe6zDe,uB;QAAtB,iBAAc,CAAd,wB;UACI,gBAAc,oBAAU,0BAAV,EAAAuB,iCAAK,KAAL,E
AAvB,E;UACd,MAAO,WAAI,0BAAJ,C;;QAEX,OAAO,M;O;KApBX,C;0GAuBA,yB;MAAA,qD;MAAA,gE;M
AAA,oC;MAAA,gC;MAAA,uC;QAiB0B,Q;QAHtB,IC9nDgD,qBAAU,CD8nD1D,C;UAAe,OAAO,W;QACtB,sB
AAkB,qBAAK,CAAL,CAAlB,C;QACqC,kBAAxB,eAAgB,gBAAhB,C;QAAgC,sBAAI,0BAAJ,C;QAA7C,afp1D
O,W;Qeq1De,uB;QAAtB,iBAAc,CAAd,wB;UACI,gBAAc,oBAAU,KAAV,EAAiB,0BAAjB,EAA8B,iCAAK,KA

AL,EAA9B,E;UACd,MAAO,WAAI,0BAAJ,C;;QAEX,OAAO,M;O;KArBX,C;0EAwBA,yB;MA9FA,gD;MAAA,
gE;MAAA,6C;MAAA,oC;MAAA,gC;MA8FA,gD;QAcW,sB;;UA5FS,Q;UAHhB,ICvjDgD,qBAAU,CDujD1D,C;
YAAe,qBAAO,OA+FH,OA/FG,C;YAAP,uB;WACuB,kBAAzB,eAAa,mBAAS,CAAT,IAAb,C;UAAiC,sBA8F3B,
OA9F2B,C;UAA9C,af5wDO,W;Ue6wDP,kBA6FmB,O;UA5FH,0B;UAAhB,OAAgB,cAAhB,C;YAAgB,oC;YAC
Z,cA2FwB,SA3FV,CAAU,WAAV,EAAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QA
wFP,yB;O;KAdJ,C;wFAiBA,yB;MAxFA,gD;MAAA,gE;MAAA,mD;MAAA,oC;MAwFA,gD;QAeW,6B;;UAtFO,
gC;UAHd,IC/kDgD,qBAAU,CD+kD1D,C;YAAe,4BAAO,OAyFI,OAzFJ,C;YAAP,8B;WACuB,kBAAzB,eAAa,m
BAAS,CAAT,IAAb,C;UAAiC,sBAwFpB,OAxFoB,C;UAA9C,afpyDO,W;UeqyDP,kBAuF0B,O;UAtFZ,6B;UAA
A,mB;UAAA,kB;UAAA,kB;UAAd,0D;YACI,cAqF+B,SArFjB,CAAU,KAAV,EAAiB,WAAjB,EAA8B,iCAAK,K
AAL,EAA9B,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,4BAAO,M;;;QAkFP,gC;O;KAfJ,C;4EAkBA,yB;MAAA,6
C;MAAA,oC;MAAA,gC;MAAA,sC;QAOoB,Q;QADhB,UAAe,C;QACC,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,
oC;UACZ,YAAO,SAAS,oBAAT,CAAP,I;;QAEJ,OAAO,G;O;KAVX,C;wFAaA,yB;MAAA,6C;MAAA,oC;MAA
A,gC;MAAA,sC;QAOoB,Q;QADhB,UAAkB,G;QACF,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,OAAO,
SAAS,oBAAT,C;;QAEX,OAAO,G;O;KAVX,C;4EAaA,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,sC;QAUoB
,Q;QADhB,UAAoB,C;QACJ,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,OAAO,SAAS,oBAAT,C;;QAEX,
OAAO,G;O;KAbX,C;4EAgBA,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,sC;QAUoB,Q;QADhB,UAAe,C;QA
CC,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,YAAO,SAAS,oBAAT,CAAP,I;;QAEJ,OAAO,G;O;KAbX,
C;4EAgBA,yB;MAAA,SASoB,gB;MATpB,6C;MAAA,oC;MAAA,gC;MAAA,sC;QAUoB,Q;QADhB,Y;QACgB,0
B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,cAAO,SAAS,oBAAT,CAAP,C;;QAEJ,OAAO,G;O;KAbX,C;4E
AgBA,yB;MAAA,6C;MAAA,oC;MAAA,gC;M7BppDA,6B;M6BopDA,sC;QAWoB,Q;QADhB,U7BppDmC,c6Bo
pDnB,C7BppDmB,C;Q6BqpDnB,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,M7Bx9DiD,c6Bw9DjD,G7B
x9D2D,KAAK,G6Bw9DzD,SAAS,oBAAT,C7Bx9DoE,KAAX,IAAf,C;;Q6B09DrD,OAAO,G;O;KAdX,C;4EAiB
A,yB;MAAA,6C;MAAA,oC;MAAA,gC;MblqDA,+B;MakqDA,sC;QAWoB,Q;QADhB,UbjqDqC,eAAW,oBaiqD/
B,CbjqD+B,CAAX,C;QakqDrB,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,Mbt+DmD,eas+DnD,Gbt+D8
D,KAAK,Kas+D5D,SAAS,oBAAT,Cbt+DuE,KAAX,CAAhB,C;;Qaw+DvD,OAAO,G;O;KAdX,C;IAiBA,oC;MA
WI,OAAO,sBAAS,IAAT,EAAe,IAAf,EAAsC,IAAtC,C;K;IAGX,+C;MAgBI,OAAO,sBAAS,IAAT,EAAe,IAAf,E
AAsC,IAAtC,EAAwD,SAAxD,C;K;IAcsB,oC;MAAE,OAAA,EAAG,W;K;IAXtC,0C;MAWI,OAAO,6BAAgB,IA
AhB,EAAsB,sBAAtB,C;K;IAGX,uD;MAgBI,OAAO,8BAAiB,IAAjB,EAAuB,IAAvB,EAA8C,IAA9C,EAAgE,SA
AhE,C;K;oFAGX,yB;MAAA,yD;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,6B;MAAA,uC;QAUoB,Q;QAFhB,Y
AAY,oB;QACZ,aAAa,oB;QACG,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,IAAI,UAAU,oBAAV,CAAJ,
C;YACI,KAAM,gBAAO,OAAP,C;;YAEN,MAAO,gBAAO,OAAP,C;;;QAGf,OAAO,cAAK,KAAL,EAAY,MAA
Z,C;O;KAjBX,C;oFAoBA,yB;MAAA,yD;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,6B;MAAA,uC;QAUoB,Q;Q
AFhB,YAAY,oB;QACZ,aAAa,oB;QACG,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,IAAI,UAAU,oBAA
V,CAAJ,C;YACI,KAAM,gBAAO,OAAP,C;;YAEN,MAAO,gBAAO,OAAP,C;;;QAGf,OAAO,cAAK,KAAM,WA
AX,EAAuB,MAAO,WAA9B,C;O;KAjBX,C;IAqCgD,6B;MAAE,OAAA,EAAG,W;K;IAjBrD,2D;MAgB4C,oB;Q
AAA,OAAY,C;MAAG,8B;QAAA,iBAA0B,K;MACjF,OAAO,sBAAS,IAAT,EAAe,IAAf,EAAqB,cAArB,EAAqC
,eAArC,C,C;K;IAGX,sE;MAkBgD,oB;QAAA,OAAY,C;MAAG,8B;QAAA,iBAA0B,K;MAQhE,Q;MAPrB,oBAAo
B,IAApB,EAA0B,IAA1B,C;MACA,eAAe,SAAK,O;MACpB,qBAAqB,YAAW,IAAX,SAAsB,WAAW,IAAX,KA
AmB,CAAvB,GAA0B,CAA1B,GAAiC,CAAnD,K;MACrB,aAAa,iBAAa,cAAb,C;MACb,YAAY,C;MACZ,OAAg
B,CAAT,qBAAiB,QAAxB,C;QACI,UAAU,QAAQ,IAAR,I;QACO,IAAI,MAAM,CAAN,IAAW,MAAM,QAArB,
C;UAAiC,IAAI,cAAJ,C;YAAoB,e;;YAAc,K;;UAAa,U;QAAjG,qB;QACA,MAAO,WAAI,UAAU,8BAAY,KAAZ,
EAAmB,UAAnB,CAAV,CAAJ,C;QACP,gBAAS,IAAT,I;;MAEJ,OAAO,M;K;IAoB6C,qC;MAAE,OAAA,EAAG,
W;K;IAjB7D,iE;MAgBoD,oB;QAAA,OAAY,C;MAAG,8B;QAAA,iBAA0B,K;MACzF,OAAO,8BAAiB,IAAjB,E
AAuB,IAAvB,EAA6B,cAA7B,EAA6C,uBAA7C,C;K;IAwByB,2F;MAAA,wB;QAC5B,UAAU,QAAQ,YAAR,I;Q
ACV,iBAAqB,MAAM,CAAN,IAAW,MAAM,4BAArB,GAA6B,4BAA7B,GAAyC,G;QAD1D,OAEA,kBAAU,0C
AAY,KAAZ,EAAmB,UAAnB,CAAV,C;O;K;IAxBR,gF;MAkBwD,sB;QAAA,SAAY,C;MAAG,8B;QAAA,iBAA
0B,K;MAC7F,oBAAoB,IAApB,EAA0B,MAA1B,C;MACA,cAAc,KAAAK,cAAAJ,GAAAoB,yBAApB,GAAAiC,WAA
Q,mBAAS,IAAT,GAAgB,CAAhB,IAAAR,CAAlC,EAAkE,MAAlE,C;MACAd,OAA4B,OAAb,aAAAR,OAAAQ,CAAAa,

EAAI,qDAAJ,C;K;IAOhC,kC;MAkBI,ad3hEO,MAAO,Kc2hEU,gBd3hEV,EcghEH,KAW2B,Od3hExB,C;Mc4hE
d,WAAW,iBAAa,MAAb,C;MACX,aAAU,CAAV,MAAkB,MAAlB,M;QACI,IAAK,WAdqB,GAcP,iCAAK,CAA
L,EAdO,EAcE,YAdrB,KAcqB,YAAM,CAAN,EAdF,CAcrB,C;;MAdT,OAgBO,I;K;wEAbX,yB;MAAA,gE;MAA
A,oC;MdzhEA,iB;McyhEA,8C;QAQI,ad3hEO,MAAO,Kc2hEK,SAAK,Od3hEV,Ec2hEkB,KAAM,Od3hExB,C;Qc
4hEd,WAAW,eAAa,MAAb,C;QACX,aAAU,CAAV,MAAkB,MAAlB,M;UACI,IAAK,WAAI,UAAU,iCAAK,CA
AL,EAAV,EAAmB,6BAAM,CAAN,EAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;IAgBA,kC;MASW,sB;;QAaP,
WAAW,mBAAS,CAAT,I;QACX,IAAI,OAAO,CAAX,C;UAAc,qBAAO,W;UAAP,uB;SACd,aAAa,iBAAa,IAAb,
C;QACb,iBAAc,CAAd,UAAsB,IAAtB,U;UACI,MAAO,WAjBkB,GAiBJ,iCAAK,KAAL,EAjBI,EAiBS,iCAAK,Q
AAQ,CAAR,IAAL,EAjBT,CAiBlB,C;;QAEX,qBAAO,M;;;MAnBP,yB;K;uFAGJ,yB;MAAA,mB;QAAA,E;MAAA,gE;MAA
A,oC;MAAA,uC;QAUI,WAAW,mBAAS,CAAT,I;QACX,IAAI,OAAO,CAAX,C;UAAc,OAAO,W;QACrB,aAAa,
eAAa,IAAb,C;QACb,iBAAc,CAAd,UAAsB,IAAtB,U;UACI,MAAO,WAAI,UAAU,iCAAK,KAAL,EAAV,EAAuB
,iCAAK,QAAQ,CAAR,IAAL,EAAvB,CAAJ,C;;QAEX,OAAO,M;O;KAhBX,C;IAwBoB,8C;MAAA,mB;QAAE,
OAAK,WAAL,eAAK,C;O;K;IAL3B,kC;MAIQ,wC;MAAA,S;QAAkB,OCniE0B,qBAAU,C;ODmiE1D,S;QAAiC,
OAAO,W;MACxC,oCAAgB,8BAAhB,C;K;IAQgB,8C;MAAA,mB;QAAE,OAAK,WAAL,eAAK,C;O;K;IAL3B,k
C;MAIQ,wC;MAAA,S;QAAkB,OC3iE0B,qBAAU,C;OD2iE1D,S;QAAiC,OAAO,e;MACxC,oCAAgB,8BAAhB,C
;K;IEpwEkC,yC;MAAA,wB;QAAW,OAAA,aAAK,KAAL,ChCsLV,K;O;K;IiCtLH,wC;MAAA,wB;QAAW,OAA
A,aAAK,KAAL,ChC8NV,K;O;K;IiC9NC,yC;MAAA,wB;QAAW,OAAA,aAAK,KAAL,CjByOV,K;O;K;IkBzOC,
0C;MAAA,wB;QAAW,OAAA,aAAK,KAAL,CjCiMV,K;O;K;4FkC5PzC,qB;MAUI,OAAO,sBAAI,CAAJ,C;K;6F
AGX,qB;MAUI,OAAO,sBAAI,CAAJ,C;K;6FAGX,qB;MAUI,OAAO,sBAAI,CAAJ,C;K;6FAGX,qB;MAUI,OAA
O,sBAAI,CAAJ,C;K;4FAGX,qB;MAUI,OAAO,sBAAI,CAAJ,C;K;6FAGX,qB;MAUI,OAAO,sBAAI,CAAJ,C;K;6
FAGX,qB;MAUI,OAAO,sBAAI,CAAJ,C;K;6FAGX,qB;MAUI,OAAO,sBAAI,CAAJ,C;K;4FAGX,qB;MAUI,OA
AO,sBAAI,CAAJ,C;K;6FAGX,qB;MAUI,OAAO,sBAAI,CAAJ,C;K;6FAGX,qB;MAUI,OAAO,sBAAI,CAAJ,C;K
;6FAGX,qB;MAUI,OAAO,sBAAI,CAAJ,C;K;4FAGX,qB;MAUI,OAAO,sBAAI,CAAJ,C;K;6FAGX,qB;MAUI,O
AAO,sBAAI,CAAJ,C;K;6FAGX,qB;MAUI,OAAO,sBAAI,CAAJ,C;K;6FAGX,qB;MAUI,OAAO,sBAAI,CAAJ,C;
K;4FAGX,qB;MAUI,OAAO,sBAAI,CAAJ,C;K;6FAGX,qB;MAUI,OAAO,sBAAI,CAAJ,C;K;6FAGX,qB;MAUI,
OAAO,sBAAI,CAAJ,C;K;6FAGX,qB;MAUI,OAAO,sBAAI,CAAJ,C;K;uGAuCX,yB;MA8gHI,8D;MA9gHJ,iD;Q
ASe,oBAAS,C;QAAT,S;UAAc,gBAqgHT,cAAR,iBAAQ,C;SArgHhB,HB,OAAO,OAAsC,sBAAI,KAAJ,CAAtC,GA
AsD,aAAa,KAAb,C;O;KATjE,C;uGAYA,yB;MA0gHI,8D;MA1gHJ,iD;QASe,oBAAS,C;QAAT,S;UAAc,gBAigH
T,cAAR,iBAAQ,C;SAjgHhB,HB,OAAO,OAAsC,sBAAI,KAAJ,CAAtC,GAAsD,aAAa,KAAb,C;O;KATjE,C;uGA
YA,yB;MAsgHI,8D;MAtgHJ,iD;QASe,oBAAS,C;QAAT,S;UAAc,gBA6/GT,cAAR,iBAAQ,C;SA7/GhB,HB,OAAO,OAA
sC,sBAAI,KAAJ,CAAtC,GAAsD,aAAa,KAAb,C;O;KATjE,C;uGAYA,yB;MAkgHI,8D;MAlgHJ,iD;QASe,oBAA
S,C;QAAT,S;UAAc,gBAy/GT,cAAR,iBAAQ,C;Sz/GhB,HB,OAAO,OAAsC,sBAAI,KAAJ,CAAtC,GAAsD,aAAa,K
AAb,C;O;KATjE,C;uGAYA,yB;MAAA,sD;MAAA,mC;QASI,OAAY,UAAL,SAAK,EAAU,KAAV,C;O;KAThB,C;uG
AYA,yB;MAAA,sD;MAAA,mC;QASI,OAAY,UAAL,SAAK,EAAU,KAAV,C;O;KAThB,C;uGAYA,yB;MAAA,sD;MAA
A,mC;QASI,OAAY,UAAL,SAAK,EAAU,KAAV,C;O;KAThB,C;uGAYA,yB;MAAA,sD;MAAA,mC;QASI,OAAY,UAL
SAAK,EAAU,KAAV,C;O;KAThB,C;iFAYA,gC;MASW,sB;;QA8NS,Q;QAAA,2B;QAAhB,
OAAgB,cAAhB,C;UAAgB,yB;UAAM,IA9NH,SA8NO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;
;QAC9C,qBAAO,I;;;MA/NP,yB;K;iFAGJ,gC;MASW,sB;;QA6NS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,
yB;UAAM,IA7NH,SA6NO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MA9NP,yB;K;
iFAGJ,gC;MASW,sB;;QA4NS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IA5NH,SA4NO,CAAU,O
AAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MA7NP,yB;K;iFAGJ,gC;MASW,sB;;QA2NS,Q;
QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IA3NH,SA2NO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;
YAAP,uB;;QAC9C,qBAAO,I;;;MA5NP,yB;K;iFAGJ,gC;MASW,sB;;QA0NS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;
UAAgB,yB;UAAM,IA1NH,SA0NO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MA3NP,
yB;K;iFAGJ,gC;MASW,sB;;QAyNS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAzNH,SAyNO,CAAU,
OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MA1NP,yB;K;iFAGJ,gC;MASW,sB;;QAwNS,Q;
QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAxNH,SAwNO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;
YAAP,uB;;QAC9C,qBAAO,I;;;MAzNP,yB;K;iFAGJ,gC;MASW,sB;;QAuNS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;
UAAgB,yB;UAAM,IAvNH,SAuNO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MAxNP,
yB;K;iFAGJ,gC;MASW,sB;;QAsNS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAtNH,SAsNO,CAAU,
OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MAvNP,yB;K;iFAGJ,gC;MASW,sB;;QAqNS,Q;
QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IArNH,SAqNO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;
YAAP,uB;;QAC9C,qBAAO,I;;;MAtNP,yB;K;iFAGJ,gC;MASW,sB;;QAoNS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;
UAAgB,yB;UAAM,IApNH,SAoNO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MArNP,
yB;K;iFAGJ,gC;MASW,sB;;QAmNS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAnNH,SAmNO,CAAU,
OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MApNP,yB;K;iFAGJ,gC;MASW,sB;;QAkNS,Q;
QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAlNH,SAkNO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;
YAAP,uB;;QAC9C,qBAAO,I;;;MAnNP,yB;K;iFAGJ,gC;MASW,sB;;QAiNS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;
UAAgB,yB;UAAM,IAjNH,SAiNO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MAlNP,
yB;K;iFAGJ,gC;MASW,sB;;QAgNS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAhNH,SAgNO,CAAU,
OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MAjNP,yB;K;iFAGJ,gC;MASW,sB;;QA+MS,Q;
QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IA/MH,SA+MO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;
YAAP,uB;;QAC9C,qBAAO,I;;;MAhNP,yB;K;iFAGJ,gC;MASW,sB;;QA8MS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;
UAAgB,yB;UAAM,IA9MH,SA8MO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MA/MP,
yB;K;iFAGJ,gC;MASW,sB;;QA6MS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IA7MH,SA6MO,CAAU,
OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MA9MP,yB;K;iFAGJ,gC;MASW,sB;;QA4MS,Q;
QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IA5MH,SA4MO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;
YAAP,uB;;QAC9C,qBAAO,I;;;MA7MP,yB;K;iFAGJ,gC;MASW,sB;;QA2MS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;
UAAgB,yB;UAAM,IA3MH,SA2MO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MA5MP,
yB;K;iFAGJ,gC;MASW,sB;;QA0MS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IA1MH,SA0MO,CAAU,
OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MA3MP,yB;K;iFAGJ,gC;MASW,sB;;QAyMS,Q;
QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAzMH,SAyMO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;
YAAP,uB;;QAC9C,qBAAO,I;;;MA1MP,yB;K;iFAGJ,gC;MASW,sB;;QAwMS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;
UAAgB,yB;UAAM,IAxMH,SAwMO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MAzMP,
yB;K;iFAGJ,gC;MASW,sB;;QAuMS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAvMH,SAuMO,CAAU,
OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MAxMP,yB;K;iFAGJ,gC;MASW,sB;;QAsMS,Q;
QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAtMH,SAsMO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;
YAAP,uB;;QAC9C,qBAAO,I;;;MAvMP,yB;K;iFAGJ,gC;MASW,sB;;QAqMS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;
UAAgB,yB;UAAM,IArMH,SAqMO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MAtMP,
yB;K;iFAGJ,gC;MASW,sB;;QAoMS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IApMH,SAoMO,CAAU,
OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MArMP,yB;K;iFAGJ,gC;MASW,sB;;QAmMS,Q;
QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAnMH,SAmMO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;
YAAP,uB;;QAC9C,qBAAO,I;;;MApMP,yB;K;iFAGJ,gC;MASW,sB;;QAkMS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;
UAAgB,yB;UAAM,IAlMH,SAkMO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MAnMP,
yB;K;iFAGJ,gC;MASW,sB;;QAiMS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAjMH,SAiMO,CAAU,
OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MAlMP,yB;K;iFAGJ,gC;MASW,sB;;QAgMS,Q;
QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAhMH,SAgMO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;
YAAP,uB;;QAC9C,qBAAO,I;;;MAjMP,yB;K;iFAGJ,gC;MASW,sB;;QA+LS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;
UAAgB,yB;UAAM,IA/LH,SA+LO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MAhMP,
yB;K;iFAGJ,gC;MASW,sB;;QA8LS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IA9LH,SA8LO,CAAU,
OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MA/LP,yB;K;iFAGJ,gC;MASW,sB;;QA6LS,Q;
QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IA7LH,SA6LO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;
YAAP,uB;;QAC9C,qBAAO,I;;;MA9LP,yB;K;iFAGJ,gC;MASW,sB;;QA4LS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;
UAAgB,yB;UAAM,IA5LH,SA4LO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MA7LP,
yB;K;iFAGJ,gC;MASW,sB;;QA2LS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IA3LH,SA2LO,CAAU,
OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MA5LP,yB;K;iFAGJ,gC;MASW,sB;;QA0LS,Q;
QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IA1LH,SA0LO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;
YAAP,uB;;QAC9C,qBAAO,I;;;MA3LP,yB;K;iFAGJ,gC;MASW,sB;;QAyLS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;
UAAgB,yB;UAAM,IAzLH,SAyLO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MA1LP,
yB;K;iFAGJ,gC;MASW,sB;;QAwLS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAxLH,SAwLO,CAAU,
OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MAzLP,yB;K;iFAGJ,gC;MASW,sB;;QAuLS,Q;
QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAvLH,SAuLO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;
YAAP,uB;;QAC9C,qBAAO,I;;;MAxLP,yB;K;iFAGJ,gC;MASW,sB;;QAsLS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;
UAAgB,yB;UAAM,IAtLH,SAsLO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MAvLP,
yB;K;iFAGJ,gC;MASW,sB;;QAqLS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IArLH,SAqLO,CAAU,
OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MAtLP,yB;K;iFAGJ,gC;MASW,sB;;QAoLS,Q;
QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IApLH,SAoLO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;
YAAP,uB;;QAC9C,qBAAO,I;;;MArLP,yB;K;iFAGJ,gC;MASW,sB;;QAmLS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;
UAAgB,yB;UAAM,IAnLH,SAmLO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MApLP,
yB;K;iFAGJ,gC;MASW,sB;;QAkLS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAlLH,SAkLO,CAAU,
OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MAnLP,yB;K;iFAGJ,gC;MASW,sB;;QAiLS,Q;
QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAjLH,SAiLO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;
YAAP,uB;;QAC9C,qBAAO,I;;;MAlLP,yB;K;iFAGJ,gC;MASW,sB;;QAgLS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;
UAAgB,yB;UAAM,IAhLH,SAgLO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MAjLP,
yB;K;iFAGJ,gC;MASW,sB;;QA+KS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IA/KH,SA+KO,CAAU,
OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MAhLP,yB;K;iFAGJ,gC;MASW,sB;;QA8KS,Q;
QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IA9KH,SA8KO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;
YAAP,uB;;QAC9C,qBAAO,I;;;MA/KP,yB;K;iFAGJ,gC;MASW,sB;;QA6KS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;
UAAgB,yB;UAAM,IA7KH,SA6KO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MA9KP,
yB;K;iFAGJ,gC;MASW,sB;;QA4KS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IA5KH,SA4KO,CAAU,
OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MA7KP,yB;K;iFAGJ,gC;MASW,sB;;QA2KS,Q;
QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IA3KH,SA2KO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;
YAAP,uB;;QAC9C,qBAAO,I;;;MA5KP,yB;K;iFAGJ,gC;MASW,sB;;QA0KS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;
UAAgB,yB;UAAM,IA1KH,SA0KO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MA3KP,
yB;K;iFAGJ,gC;MASW,sB;;QAyKS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAzKH,SAyKO,CAAU,
OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MA1KP,yB;K;iFAGJ,gC;MASW,sB;;QAwKS,Q;
QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAxKH,SAwKO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;
YAAP,uB;;QAC9C,qBAAO,I;;;MAzKP,yB;K;iFAGJ,gC;MASW,sB;;QAuKS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;
UAAgB,yB;UAAM,IAvKH,SAuKO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MAxKP,
yB;K;iFAGJ,gC;MASW,sB;;QAsKS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAtKH,SAsKO,CAAU,
OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MAvKP,yB;K;iFAGJ,gC;MASW,sB;;QAqKS,Q;
QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IArKH,SAqKO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;
YAAP,uB;;QAC9C,qBAAO,I;;;MAtKP,yB;K;iFAGJ,gC;MASW,sB;;QAoKS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;
UAAgB,yB;UAAM,IApKH,SAoKO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MArKP,
yB;K;iFAGJ,gC;MASW,sB;;QAmKS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAnKH,SAmKO,CAAU,
OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MApKP,yB;K;iFAGJ,gC;MASW,sB;;QAkKS,Q;
QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAlKH,SAkKO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;
YAAP,uB;;QAC9C,qBAAO,I;;;MAnKP,yB;K;iFAGJ,gC;MASW,sB;;QAiKS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;
UAAgB,yB;UAAM,IAjKH,SAiKO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MAlKP,
yB;K;iFAGJ,gC;MASW,sB;;QAgKS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAhKH,SAgKO,CAAU,
OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MAjKP,yB;K;iFAGJ,gC;MASW,sB;;QA+JS,Q;
QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IA/JH,SA+JO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;
YAAP,uB;;QAC9C,qBAAO,I;;;MAhKP,yB;K;iFAGJ,gC;MASW,sB;;QA8JS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;
UAAgB,yB;UAAM,IA9JH,SA8JO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MA/JP,
yB;K;iFAGJ,gC;MASW,sB;;QA6JS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IA7JH,SA6JO,CAAU,
OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MA9JP,yB;K;iFAGJ,gC;MASW,sB;;QA4JS,Q;
QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IA5JH,SA4JO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;
YAAP,uB;;QAC9C,qBAAO,I;;;MA7JP,yB;K;iFAGJ,gC;MASW,sB;;QA2JS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;
UAAgB,yB;UAAM,IA3JH,SA2JO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MA5JP,
yB;K;iFAGJ,gC;MASW,sB;;QA0JS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IA1JH,SA0JO,CAAU,
OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MA3JP,yB;K;iFAGJ,gC;MASW,sB;;QAyJS,Q;
QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAzJH,SAyJO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;
YAAP,uB;;QAC9C,qBAAO,I;;;MA1JP,yB;K;iFAGJ,gC;MASW,sB;;QAwJS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;
UAAgB,yB;UAAM,IAxJH,SAwJO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MAzJP,
yB;K;iFAGJ,gC;MASW,sB;;QAuJS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAvJH,SAuJO,CAAU,
OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MAxJP,yB;K;iFAGJ,gC;MASW,sB;;QAsJS,Q;
QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAtJH,SAsJO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;
YAAP,uB;;QAC9C,qBAAO,I;;;MAvJP,yB;K;iFAGJ,gC;MASW,sB;;QAqJS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;
UAAgB,yB;UAAM,IArJH,SAqJO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MAtJP,
yB;K;iFAGJ,gC;MASW,sB;;QAoJS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IApJH,SAoJO,CAAU,
OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MArJP,yB;K;iFAGJ,gC;MASW,sB;;QAmJS,Q;
QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAnJH,SAmJO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;
YAAP,uB;;QAC9C,qBAAO,I;;;MApJP,yB;K;iFAGJ,gC;MASW,sB;;QAkJS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;
UAAgB,yB;UAAM,IAlJH,SAkJO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MAnJP,
yB;K;iFAGJ,gC;MASW,sB;;QAiJS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAjJH,SAiJO,CAAU,
OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MAlJP,yB;K;iFAGJ,gC;MASW,sB;;QAgJS,Q;
QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAhJH,SAgJO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;
YAAP,uB;;QAC9C,qBAAO,I;;;MAjJP,yB;K;iFAGJ,gC;MASW,sB;;QA+IS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;
UAAgB,yB;UAAM,IA/IH,SA+IO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MAhJP,
yB;K;iFAGJ,gC;MASW,sB;;QA8IS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IA9IH,SA8IO,CAAU,
OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MA/IP,yB;K;iFAGJ,gC;MASW,sB;;QA6IS,Q;
QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IA7IH,SA6IO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;
YAAP,uB;;QAC9C,qBAAO,I;;;MA9IP,yB;K;iFAGJ,gC;MASW,sB;;QA4IS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;
UAAgB,yB;UAAM,IA5IH,SA4IO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MA7IP,
yB;K;iFAGJ,gC;MASW,sB;;QA2IS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IA3IH,SA2IO,CAAU,
OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MA5IP,yB;K;iFAGJ,gC;MASW,sB;;QA0IS,Q;
QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IA1IH,SA0IO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;
YAAP,uB;;QAC9C,qBAAO,I;;;MA3IP,yB;K;iFAGJ,gC;MASW,sB;;QAyIS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;
UAAgB,yB;UAAM,IAzIH,SAyIO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MA1IP,
yB;K;iFAGJ,gC;MASW,sB;;QAwIS,Q;QAAA,2B;Q

oBAAO,I;;;QApoBP,wB;O;KATJ,C;yFAYA,yB;MAooBA,+C;MAktFI,0D;MAt1GJ,uC;QASW,qB;;UAooBO,Q;U
AAA,OAAa,SAysFX,YAAR,iBAAQ,CAzsFW,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,sBAAK,
KAAL,C;YACd,IAtoBc,SAsoBV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QAx
oBP,wB;O;KATJ,C;yFAYA,yB;MAwoBA,+C;MA0sFI,0D;MAl1GJ,uC;QASW,qB;;UAwoBO,Q;UAAA,OAAa,S
AisFX,YAAR,iBAAQ,CAjsFW,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,sBAAK,KAAL,C;YACd
,IA1oBc,SA0oBV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;UAE5B,oBAAO,I;;;QA5oBP,wB;O;KAT
J,C;mFAYA,yB;MAAA,8C;MnCpHA,6B;MmCoHA,4B;QAQI,OnClHmC,cmCkHpB,MAAR,iBAAQ,CnClHoB,C
;O;KmC0GvC,C;mFAWA,yB;MAAA,8C;MnBhHA,+B;MmBgHA,4B;QAQI,OnB9GsC,emB8GvB,MAAR,iBAA
Q,CnB9GuB,C;O;KmBsG1C,C;mFAWA,yB;MAAA,8C;MpCxLA,+B;MoCwLA,4B;QAQI,OpCtLsC,eoCsLvB,M
AAR,iBAAQ,CpCtLuB,C;O;KoC8K1C,C;mFAWA,yB;MAAA,8C;MlCtLA,iC;MkCsLA,4B;QAQI,OlCpLyC,gBk
CoL1B,MAAR,iBAAQ,ClCpL0B,C;O;KkC4K7C,C;mFAWA,yB;MAAA,iE;MAAA,uC;QAQoB,Q;QAAA,2B;QA
AhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QACrD,MAAM,g
CAAuB,mDAAvB,C;O;KATV,C;mFAYA,yB;MAAA,iE;MAAA,uC;QAQoB,Q;QAAA,2B;QAAhB,OAAgB,cAA
hB,C;UAAgB,yB;UAAM,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QACrD,MAAM,gCAAuB,mDAAvB,
C;O;KATV,C;mFAYA,yB;MAAA,iE;MAAA,uC;QAQoB,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;U
AAM,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QACrD,MAAM,gCAAuB,mDAAvB,C;O;KATV,C;mFA
YA,yB;MAAA,iE;MAAA,uC;QAQoB,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,UAAU,
OAAV,CAAJ,C;YAAwB,OAAO,O;;QACrD,MAAM,gCAAuB,mDAAvB,C;O;KATV,C;IAYA,mC;MAMI,OAA
W,mBAAJ,GAAe,IAAf,GAAyB,sBAAK,CAAL,C;K;IAGpC,mC;MAMI,OAAW,mBAAJ,GAAe,IAAf,GAAyB,sB
AAK,CAAL,C;K;IAGpC,mC;MAMI,OAAW,mBAAJ,GAAe,IAAf,GAAyB,sBAAK,CAAL,C;K;IAGpC,mC;MA
MI,OAAW,mBAAJ,GAAe,IAAf,GAAyB,sBAAK,CAAL,C;K;+FAGpC,gC;MAOoB,Q;MAAA,2B;MAAhB,OAA
gB,cAAhB,C;QAAgB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,O;;MACrD,OAAO,I;K;+FAGX,
gC;MAOoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UAAwB
,OAAO,O;;MACrD,OAAO,I;K;+FAGX,gC;MAOoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAA
M,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,O;;MACrD,OAAO,I;K;+FAGX,gC;MAOoB,Q;MAAA,2B;MA
AhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,O;;MACrD,OAAO,I;
K;2FAGX,yB;MAkqGI,8D;MAlqGJ,iD;QAOe,oBAAS,C;QAAT,S;UAAc,gBA2pGT,cAAR,iBAAQ,C;SA3pGhB,
OAAO,OAAsC,sBAAI,KAAJ,CAAtC,GAAsD,aAAa,KAAb,C;O;KAPjE,C;2FAUA,yB;MAgqGI,8D;MAhqGJ,iD;
QAOe,oBAAS,C;QAAT,S;UAAc,gBAypGT,cAAR,iBAAQ,C;SAzpGhB,OAAO,OAAsC,sBAAI,KAAJ,CAAtC,G
AAsD,aAAa,KAAb,C;O;KAPjE,C;2FAUA,yB;MA8pGI,8D;MA9pGJ,iD;QAOe,oBAAS,C;QAAT,S;UAAc,gBAup
GT,cAAR,iBAAQ,C;SAvpGhB,OAAO,OAAsC,sBAAI,KAAJ,CAAtC,GAAsD,aAAa,KAAb,C;O;KAPjE,C;2FAU
A,yB;MA4pGI,8D;MA5pGJ,iD;QAOe,oBAAS,C;QAAT,S;UAAc,gBAqpGT,cAAR,iBAAQ,C;SArpGhB,OAAO,O
AAsC,sBAAI,KAAJ,CAAtC,GAAsD,aAAa,KAAb,C;O;KAPjE,C;IAUA,wC;MAQe,oBAAS,C;MAAT,S;QAAc,g
BAknGT,gBAAR,iBAAQ,C;OAlnGhB,OAAO,OAAsC,sBAAI,KAAJ,CAAtC,GAAsD,I;K;IAGjE,wC;MAQe,oBA
AS,C;MAAT,S;QAAc,gBA+mGT,gBAAR,iBAAQ,C;OA/mGhB,OAAO,OAAsC,sBAAI,KAAJ,CAAtC,GAAsD,I;
K;IAGjE,wC;MAQe,oBAAS,C;MAAT,S;QAAc,gBA4mGT,gBAAR,iBAAQ,C;OA5mGhB,OAAO,OAAsC,sBAAI
,KAAJ,CAAtC,GAAsD,I;K;IAGjE,wC;MAQe,oBAAS,C;MAAT,S;QAAc,gBAymGT,gBAAR,iBAAQ,C;OAzmG
hB,OAAO,OAAsC,sBAAI,KAAJ,CAAtC,GAAsD,I;K;uFAGjE,yB;MAAA,kD;MAAA,qC;QAOI,OAAe,QAAR,iB
AAQ,EAAQ,OnCtdU,KmCsdlB,C;O;KAPnB,C;uFAUA,yB;MAAA,kD;MAAA,qC;QAOI,OAAe,QAAR,iBAAQ,E
AAQ,OnBrdY,KmBqdpB,C;O;KAPnB,C;uFAUA,yB;MAAA,kD;MAAA,qC;QAOI,OAAe,QAAR,iBAAQ,EAAQ,
OpClhBY,KoCkhBpB,C;O;KAPnB,C;uFAUA,yB;MAAA,kD;MAAA,qC;QAOI,OAAe,QAAR,iBAAQ,EAAQ,Ol
CjhBc,KkCihBtB,C;O;KAPnB,C;iGAUA,yB;MAAA,sC;MnC5ZA,6B;MmC4ZA,0BAOgC,yB;QnCnahC,6B;emC
magC,6B;UAAA,qB;YAAE,yBnCzZK,cmCyZK,EnCzZL,CmCyZL,C;W;S;OAAF,C;MAPhC,uC;QAOmB,kBAA
R,iB;QAAQ,uB;;UtC40Bf,0D;YACI,IsC70B0B,UnCzZK,cHsuCjB,YAAK,KAAL,CGtuCiB,CmCyZL,CtC60B1B,
C;cACI,sBAAO,K;cAAP,wB;;UAGR,sBAAO,E;;;QsCj1BP,0B;O;KAPJ,C;iGAUA,yB;MAAA,sC;MnBvZA,+B;M
mBuZA,0BAOgC,yB;QnB9ZhC,+B;emB8ZgC,6B;UAAA,qB;YAAE,yBnBpZQ,emBoZE,EnBpZF,CmBoZR,C;W;
S;OAAF,C;MAPhC,uC;QAOmB,kBAAR,iB;QAAQ,uB;;UtC80Bf,0D;YACI,IsC/0B0B,UnBpZQ,enBmuCpB,YAA
K,KAAL,CmBnuCoB,CmBoZR,CtC+0B1B,C;cACI,sBAAO,K;cAAP,wB;;UAGR,sBAAO,E;;;QsCn1BP,0B;O;KA

PJ,C;iGAUA,yB;MAAA,sC;MpC9dA,+B;MoC8dA,0BAOgC,yB;QpCrehC,+B;eoCqegC,6B;UAAA,qB;YAAE,yBpC3dQ,eoC2dE,EpC3dF,CoC2dR,C;W;S;OAAF,C;MAPhC,uC;QAOmB,kBAAR,iB;QAAQ,uB;;UtCgyBf,0D;YACI,IsCjyB0B,UpC3dQ,eF4vCpB,YAAK,KAAL,CE5vCoB,CoC2dR,CtCiyB1B,C;cACI,sBAAO,K;cAAP,wB;;UAGR,sBAAO,E;;;QsCryBP,0B;O;KAPJ,C;iGAUA,yB;MAAA,sC;MlC3dA,iC;MkC2dA,0BAOgC,yB;QlClehC,iC;ekCkegC,6B;UAAA,qB;YAAE,yBlCxdW,gBkCwdD,ElCxdC,CkCwdX,C;W;S;OAAF,C;MAPhC,uC;QAOmB,kBAAR,iB;QAAQ,uB;;UtCkyBf,0D;YACI,IsCnyB0B,UlCxdW,gBJ2vCvB,YAAK,KAAL,CI3vCuB,CkCwdX,CtCmyB1B,C;cACI,sBAAO,K;cAAP,wB;;UAGR,sBAAO,E;;;QsCvyBP,0B;O;KAPJ,C;+FAUA,yB;MAAA,sC;MtCm5BA,0D;MAAA,+C;MGv1CA,6B;MmCocA,yBAO+B,yB;QnC3c/B,6B;UmC2cA,yBAOmC,yB;QnCjcnC,iC;UmCicA,yBAOmC,yB;QnCvbnC,iC;UmCubA,yBAOmC,yB;QnC7anC,iC;UmC6aA,yBAOmC,yB;QnCnanC,iC;UmCmaA,yBAOmC,yB;QnCzZnC,iC;UmCyZA,yBAOmC,yB;QnC/YnC,iC;UmC+YA,yBAOmC,yB;QnCrYnC,iC;UmCqYA,yBAOmC,yB;QnC3XnC,iC;UmC2XA,yBAOmC,yB;QnCjXnC,iC;UmCiXA,yBAOmC,yB;QnCvWnC,iC;UmCuWA,yBAOmC,yB;QnC7VnC,iC;UmC6VA,yBAOmC,yB;QnCnVnC,iC;UmCmVA,yBAOmC,yB;QnCzUnC,iC;UmCyUA,yBAOmC,yB;QnC/TnC,iC;UmC+TA,yBAOmC,yB;QnCrTnC,iC;UmCqTA,yBAOmC,yB;QnC3SnC,iC;UmC2SA,yBAOmC,yB;QnCjSnC,iC;UmCiSA,yBAOmC,yB;QnCvRnC,iC;UmCuRA,yBAOmC,yB;QnC7QnC,iC;UmC6QA,yBAOmC,yB;QnCnQnC,iC;UmCmQA,yBAOmC,yB;QnCzPnC,iC;UmCyPA,yBAOmC,yB;QnC/OnC,iC;UmC+OA,yBAOmC,yB;QnCrOnC,iC;UmCqOA,yBAOmC,yB;QnC3NnC,iC;UmC2NA,yBAOmC,yB;QnCjNnC,iC;UmCiNA,yBAOmC,yB;QnCvMnC,iC;UmCuMA,yBAOmC,yB;QnC7LnC,iC;UmC6LA,yBAOmC,yB;QnCnLnC,iC;UmCmLA,yBAOmC,yB;QnCzKnC,iC;UmCyKA,yBAOmC,yB;QnC/JnC,iC;UmC+JA,yBAOmC,yB;QnCrJnC,iC;UmCqJA,yBAOmC,yB;QnC3InC,iC;UmC2IA,yBAOmC,yB;QnCjInC,iC;UmCiIA,yBAOmC,yB;QnCvHnC,iC;UmCuHA,yBAOmC,yB;QnC7GnC,iC;UmC6GA,yBAOmC,yB;QnCnGnC,iC;UmCmGA,yBAOmC,yB;QnCzFnC,iC;UmCyFA,yBAOmC,yB;QnC/EnC,iC;UmC+EA,yBAOmC,yB;QnCrEnC,iC;UmCqEA,yBAOmC,yB;QnC3DnC,iC;UmC2DA,yBAOmC,yB;QnCjDnC,iC;UmCiDA,yBAOmC,yB;QnCvCnC,iC;UmCuCA,yBAOmC,yB;QnC7BnC,iC;UmC6BA,yBAOmC,yB;QnCnBnC,iC;UmCmBA,yBAOmC,yB;QnCTnC,iC;UmCSA,yBAOmC,yB;QnCfnC,iC;UmCeA,yBAOmC,yB;QnCrBnC,iC;UmCqBA,yBAOmC,yB;QnC3BnC,iC;UmC2BA,yBAOmC,yB;QnCjCnC,iC;UmCiCA,yBAOmC,yB;QnCvCnC,iC;UmCuCA,yBAOmC,yB;QnC7CnC,iC;UmC6CA,yBAOmC,yB;QnCnDnC,iC;UmCmDA,yBAOmC,yB;QnCzDnC,iC;UmCyDA,yBAOmC,yB;QnC/DnC,iC;UmC+DA,yBAOmC,yB;QnCrEnC,iC;UmCqEA,yBAOmC,yB;QnC3EnC,iC;UmC2EA,yBAOmC,yB;QnCjFnC,iC;UmCiFA,yBAOmC,yB;QnCvFnC,iC;UmCuFA,yBAOmC,yB;QnC7FnC,iC;UmC6FA,yBAOmC,yB;QnCnGnC,iC;UmCmGA,yBAOmC,yB;QnCzGnC,iC;UmCyGA,yBAOmC,yB;QnC/GnC,iC;UmC+GA,yBAOmC,yB;QnCrHnC,iC;UmCqHA,yBAOmC,yB;QnC3HnC,iC;UmC2HA,yBAOmC,yB;QnCjInC,iC;UmCiIA,yBAOmC,yB;QnCvInC,iC;UmCuIA,yBAOmC,yB;QnC7InC,iC;UmC6IA,yBAOmC,yB;QnCnJnC,iC;UmCmJA,yBAOmC,yB;QnCzJnC,iC;UmCyJA,yBAOmC,yB;QnC/JnC,iC;UmC+JA,yBAOmC,yB;QnCrKnC,iC;UmCqKA,yBAOmC,yB;QnC3KnC,iC;UmC2KA,yBAOmC,yB;QnCjLnC,iC;UmCiLA,yBAOmC,yB;QnCvLnC,iC;UmCuLA,yBAOmC,yB;QnC7LnC,iC;UmC6LA,yBAOmC,yB;QnCnMnC,iC;UmCmMA,yBAOmC,yB;QnCzMnC,iC;UmCyMA,yBAOmC,yB;QnC/MnC,iC;UmC+MA,yBAOmC,yB;QnCrNnC,iC;UmCqNA,yBAOmC,yB;QnC3NnC,iC;UmC2NA,yBAOmC,yB;QnCjOnC,iC;UmCiOA,yBAOmC,yB;QnCvOnC,iC;UmCuOA,yBAOmC,yB;QnC7OnC,iC;UmC6OA,yBAOmC,yB;QnCnPnC,iC;UmCmPA,yBAOmC,yB;QnCzPnC,iC;UmCyPA,yBAOmC,yB;QnC/PnC,iC;UmC+PA,yBAOmC,yB;QnCrQnC,iC;UmCqQA,yBAOmC,yB;QnC3QnC,iC;UmC2QA,yBAOmC,yB;QnCjRnC,iC;UmCiRA,yBAOmC,yB;QnCvRnC,iC;UmCuRA,yBAOmC,yB;QnC7RnC,iC;UmC6RA,yBAOmC,yB;QnCnSnC,iC;UmCmSA,yBAOmC,yB;QnCzSnC,iC;UmCySA,yBAOmC,yB;QnC/SnC,iC;UmC+SA,yBAOmC,yB;QnCrTnC,iC;UmCqTA,yBAOmC,yB;QnC3TnC,iC;UmC2TA,yBAOmC,yB;QnCjUnC,iC;UmCiUA,yBAOmC,yB;QnCvUnC,iC;UmCuUA,yBAOmC,yB;QnC7UnC,iC;UmC6UA,yBAOmC,yB;QnCnVnC,iC;UmCmVA,yBAOmC,yB;QnCzVnC,iC;UmCyVA,yBAOmC,yB;QnC/VnC,iC;UmC+VA,yBAOmC,yB;QnCrWnC,iC;UmCqWA,yBAOmC,yB;QnC3WnC,iC;UmC2WA,yBAOmC,yB;QnCjXnC,iC;UmCiXA,yBAOmC,yB;QnCvXnC,iC;UmCuXA,yBAOmC,yB;QnC7XnC,iC;UmC6XA,yBAOmC,yB;QnCnYnC,iC;UmCmYA,yBAOmC,yB;QnCzYnC,iC;UmCyYA,yBAOmC,yB;QnC/YnC,iC;UmC+YA,yBAOmC,yB;QnCrZnC,iC;UmCqZA,yBAOmC,yB;QnC3ZnC,iC;UmC2ZA,yBAOmC,yB;QnCjanC,iC;UmCiaA,yBAOmC,yB;QnCvanC,iC;UmCuaA,yBAOmC,yB;QnC7anC,iC;UmC6aA,yBAOmC,yB;QnCnbnC,iC;UmCmbA,yBAOmC,yB;QnCzbnC,iC;UmCybA,yBAOmC,yB;QnC/bnC,iC;UmC+bA,yBAOmC,yB;QnCrcnC,iC;UmCqcA,yBAOmC,yB;QnC3cnC,iC;UmC2cA,yBAOmC,yB;QnCjdnC,iC;UmCidA,yBAOmC,yB;QnCvdnC,iC;UmCudA,yBAOmC,yB;QnC7dnC,iC;UmC6dA,yBAOmC,yB;QnCneA,iC;UmCmeA,yBAOmC,yB;QnCzeA,iC;UmCyeA,yBAOmC,yB;QnC/eA,iC;UmC+eA,yBAOmC,yB;QnCrfA,iC;UmCqfA,yBAOmC,yB;QnC3fA,iC;UmC2fA,yBAOmC,yB;QnCjgA,iC;UmCigBA,yBAOmC,yB;QnCvgBA,iC;UmCugBA,yBAOmC,yB;QnC7gBA,iC;UmC6gBA,yBAOmC,yB;QnCnhBA,iC;UmCmhBA,yBAOmC,yB;QnCzhBA,iC;UmCyhBA,yBAOmC,yB;QnC/hBA,iC;UmC+hBA,yBAOmC,yB;QnCriBA,iC;UmCqiBA,yBAOmC,yB;QnC3iBA,iC;UmC2iBA,yBAOmC,yB;QnCjjBA,iC;UmCijBA,yBAOmC,yB;QnCvjBA,iC;UmCujBA,yBAOmC,yB;QnC7jBA,iC;UmC6jBA,yBAOmC,yB;QnCnkBA,iC;UmCmkBA,yBAOmC,yB;QnCzkBA,iC;UmCykBA,yBAOmC,yB;QnC/kBA,iC;UmC+kBA,yBAOmC,yB;QnCrlBA,iC;UmCqlBA,yBAOmC,yB;QnC3lBA,iC;UmC2lBA,yBAOmC,yB;QnCjmBA,iC;UmCimBA,yBAOmC,yB;QnCvmBA,iC;UmCumBA,yBAOmC,yB;QnC7mBA,iC;UmC6mBA,yBAOmC,yB;QnCnnBA,iC;UmCmnBA,yBAOmC,yB;QnCznBA,iC;UmCynBA,yBAOmC,yB;QnC/nBA,iC;UmC+nBA,yBAOmC,yB;QnCroBA,iC;UmCqoBA,yBAOmC,yB;QnC3oBA,iC;UmC2oBA,yBAOmC,yB;QnCjpBA,iC;UmCipBA,yBAOmC,yB;QnCvpBA,iC;UmCupBA,yBAOmC,yB;QnC7pBA,iC;UmC6pBA,yBAOmC,yB;QnCnqBA,iC;UmCmqBA,yBAOmC,yB;QnCzqBA,iC;UmCyqBA,yBAOmC,yB;QnC/qBA,iC;UmC+qBA,yBAOmC,yB;QnCrrBA,iC;UmCqrBA,yBAOmC,yB;QnC3rBA,iC;UmC2rBA,yBAOmC,yB;QnCjsBA,iC;UmCisBA,yBAOmC,yB;QnCvsBA,iC;UmCusBA,yBAOmC,yB;QnC7sBA,iC;UmC6sBA,yBAOmC,yB;QnCntBA,iC;UmCmtBA,yBAOmC,yB;QnCztBA,iC;UmCytBA,yBAOmC,yB;QnC/tBA,iC;UmC+tBA,yBAOmC,yB;QnCruBA,iC;UmCquBA,yBAOmC,yB;QnC3uBA,iC;UmC2uBA,yBAOmC,yB;QnCjvBA,iC;UmCivBA,yBAOmC,yB;QnCvvBA,iC;UmCuvBA,yBAOmC,yB;QnC7vBA,iC;UmC6vBA,yBAOmC,yB;QnCnwBA,iC;UmCmwBA,yBAOmC,yB;QnCzwBA,iC;UmCywBA,yBAOmC,yB;QnC/wBA,iC;UmC+wBA,yBAOmC,yB;QnCrxBA,iC;UmCqxBA,yBAOmC,yB;QnC3xBA,iC;UmC2xBA,yBAOmC,yB;QnCjyBA,iC;UmCiyBA,yBAOmC,yB;QnCvyBA,iC;UmCuyBA,yBAOmC,yB;QnC7yBA,iC;UmC6yBA,yBAOmC,yB;QnCnzBA,iC;UmCmzBA,yBAOmC,yB;QnCzzBA,iC;UmCyzBA,yBAOmC,yB;QnC/zBA,iC;UmC+zBA,yBAOmC,yB;QnCr0BA,iC;UmCq0BA,yBAOmC,yB;QnC30BA,iC;UmC20BA,yBAOmC,yB;QnCj1BA,iC;UmCi1BA,yBAOmC,yB;QnCv1BA,iC;UmCu1BA,yBAOmC,yB;QnC71BA,iC;UmC61BA,yBAOmC,yB;QnCn2BA,iC;UmCm2BA,yBAOmC,yB;QnCz2BA,iC;UmCy2BA,yBAOmC,yB;QnC/2BA,iC;UmC+2BA,yBAOmC,yB;QnCr3BA,iC;UmCq3BA,yBAOmC,yB;QnC33BA,iC;UmC23BA,yBAOmC,yB;QnCj4BA,iC;UmCi4BA,yBAOmC,yB;QnCv4BA,iC;UmCu4BA,yBAOmC,yB;QnC74BA,iC;UmC64BA,yBAOmC,yB;QnCn5BA,iC;UmCm5BA,yBAOmC,yB;QnCz5BA,iC;UmCy5BA,yBAOmC,yB;QnC/5BA,iC;UmC+5BA,yBAOmC,yB;QnCr6BA,iC;UmCq6BA,yBAOmC,yB;QnC36BA,iC;UmC26BA,yBAOmC,yB;QnCj7BA,iC;UmCi7BA,yBAOmC,yB;QnCv7BA,iC;UmCu7BA,yBAOmC,yB;QnC77BA,iC;UmC67BA,yBAOmC,yB;QnCn8BA,iC;UmCm8BA,yBAOmC,yB;QnCz8BA,iC;UmCy8BA,yBAOmC,yB;QnC/8BA,iC;UmC+8BA,yBAOmC,yB;QnCr9BA,iC;UmCq9BA,yBAOmC,yB;QnC39BA,iC;UmC29BA,yBAOmC,yB;QnCj+BA,iC;UmCi+BA,yBAOmC,yB;QnCv+BA,iC;UmCu+BA,yBAOmC,yB;QnC7+BA,iC;UmC6+BA,yBAOmC,yB;QnCn/BA,iC;UmCm/BA,yBAOmC,yB;QnCz/BA,iC;UmCy/BA,yBAOmC,yB;QnC//BA,iC;UmC+/BA,yBAOmC,yB;QnCrgCA,iC;UmCqgCA,yBAOmC,yB;QnC3gCA,iC;UmC2gCA,yBAOmC,yB;QnCjhCA,iC;UmCihCA,yBAOmC,yB;QnCvhCA,iC;UmCuhCA,yBAOmC,yB;QnC7hCA,iC;UmC6hCA,yBAOmC,yB;QnCniCA,iC;UmCmiCA,yBAOmC,yB;QnCziCA,iC;UmCyiCA,yBAOmC,yB;QnC/iCA,iC;UmC+iCA,yBAOmC,yB;QnCrjCA,iC;UmCqjCA,yBAOmC,yB;QnC3jCA,iC;UmC2jCA,yBAOmC,yB;QnCjkCA,iC;UmCikCA,yBAOmC,yB;QnCvkCA,iC;UmCukCA,yBAOmC,yB;QnC7kCA,iC;UmC6kCA,yBAOmC,yB;QnCnlCA,iC;UmCmlCA,yBAOmC,yB;QnCzlCA,iC;UmCylCA,yBAOmC,yB;QnC/lCA,iC;UmC+lCA,yBAOmC,yB;QnCrmCA,iC;UmCqmCA,yBAOmC,yB;QnC3mCA,iC;UmC2mCA,yBAOmC,yB;QnCjnCA,iC;UmCinCA,yBAOmC,yB;QnCvnCA,iC;UmCunCA,yBAOmC,yB;QnC7nCA,iC;UmC6nCA,yBAOmC,yB;QnCnoCA,iC;UmCmoCA,yBAOmC,yB;QnCzoCA,iC;UmCyoCA,yBAOmC,yB;QnC/oCA,iC;UmC+oCA,yBAOmC,yB;QnCrpCA,iC;UmCqpCA,yBAOmC,yB;QnC3pCA,iC;UmC2pCA,yBAOmC,yB;QnCjqCA,iC;UmCiqCA,yBAOmC,yB;QnCvqCA,iC;UmCuqCA,yBAOmC,yB;QnC7qCA,iC;UmC6qCA,yBAOmC,yB;QnCnrCA,iC;UmCmrCA,yBAOmC,yB;QnCzrCA,iC;UmCyrCA,yBAOmC,yB;QnC/rCA,iC;UmC+rCA,yBAOmC,yB;QnCrsCA,iC;UmCqsCA,yBAOmC,yB;QnC3sCA,iC;UmC2sCA,yBAOmC,yB;QnCjtCA,iC;UmCitCA,yBAOmC,yB;QnCvtCA,iC;UmCutCA,yBAOmC,yB;QnC7tCA,iC;UmC6tCA,yBAOmC,yB;QnCnuCA,iC;UmCmuCA,yBAOmC,yB;QnCzuCA,iC;UmCyuCA,yBAOmC,yB;QnC/uCA,iC;UmC+uCA,yBAOmC,yB;QnCrvCA,iC;UmCqvCA,yBAOmC,yB;QnC3vCA,iC;UmC2vCA,yBAOmC,yB;QnCjwCA,iC;UmCiwCA,yBAOmC,yB;QnCvwCA,iC;UmCuwCA,yBAOmC,yB;QnC7wCA,iC;UmC6wCA,yBAOmC,yB;QnCnxCA,iC;UmCmxCA,yBAOmC,yB;QnCzxCA,iC;UmCyxCA,yBAOmC,yB;QnC/xCA,iC;UmC+xCA,yBAOmC,yB;QnCryCA,iC;UmCqyCA,yBAOmC,yB;QnC3yCA,iC;UmC2yCA,yBAOmC,yB;QnCjzCA,iC;UmCizCA,yBAOmC,yB;QnCvzCA,iC;UmCuzCA,yBAOmC,yB;QnC7zCA,iC;UmC6zCA,yBAOmC,yB;QnCn0CA,iC;UmCm0CA,yBAOmC,yB;QnCz0CA,iC;UmCy0CA,yBAOmC,yB;QnC/0CA,iC;UmC+0CA,yBAOmC,yB;QnCr1CA,iC;UmCq1CA,yBAOmC,yB;QnC31CA,iC;UmC21CA,yBAOmC,yB;QnCj2CA,iC;UmCi2CA,yBAOmC,yB;QnCv2CA,iC;UmCu2CA,yBAOmC,yB;QnC72CA,iC;UmC62CA,yBAOmC,yB;QnCn3CA,iC;UmCm3CA,yBAOmC,yB;QnCz3CA,iC;UmCy3CA,yBAOmC,yB;QnC/3CA,iC;UmC+3CA,yBAOmC,yB;QnCr4CA,iC;UmCq4CA,yBAOmC,yB;QnC34CA,iC;UmC24CA,yBAOmC,yB;QnCj5CA,iC;UmCi5CA,yBAOmC,yB;QnCv5CA,iC;UmCu5CA,yBAOmC,yB;QnC75CA,iC;UmC65CA,yBAOmC,yB;QnCn6CA,iC;UmCm6CA,yBAOmC,yB;QnCz6CA,iC;UmCy6CA,yBAOmC,yB;QnC/6CA,iC;UmC+6CA,yBAOmC,yB;QnCr7CA,iC;UmCq7CA,yBAOmC,yB;QnC37CA,iC;UmC27CA,yBAOmC,yB;QnCj8CA,iC;UmCi8CA,yBAOmC,yB;QnCv8CA,iC;UmCu8CA,yBAOmC,yB;QnC78CA,iC;UmC68CA,yBAOmC,yB;QnCn9CA,iC;UmCm9CA,yBAOmC,yB;QnCz9CA,iC;UmCy9CA,yBAOmC,yB;QnC/9CA,iC;UmC+9CA,yBAOmC,yB;QnCr+CA,iC;UmCq+CA,yBAOmC,yB;QnC3+CA,iC;UmC2+CA,yBAOmC,yB;QnCj/CA,iC;UmCi/CA,yBAOmC,yB;QnCv/CA,iC;UmCu/CA,yBAOmC,yB;QnC7/CA,iC;UmC6/CA,yBAOmC,yB;QnCngDA,iC;UmCmgDA,yBAOmC,yB;QnCzgDA,iC;UmCygDA,yBAOmC,yB;QnC/gDA,iC;UmC+gDA,yBAOmC,yB;QnCrhDA,iC;UmCqhDA,yBAOmC,yB;QnC3hDA,iC;UmC2hDA,yBAOmC,yB;QnCjiDA,iC;UmCiiDA,yBAOmC,yB;QnCviDA,iC;UmCuiDA,yBAOmC,yB;QnC7iDA,iC;UmC6iDA,yBAOmC,yB;QnCnjDA,iC;UmCmjDA,yBAOmC,yB;QnCzjDA,iC;UmCyjDA,yBAOmC,yB;QnC/jDA,iC;UmC+jDA,yBAOmC,yB;QnCrkDA,iC;UmCqkDA,yBAOmC,yB;QnC3kDA,iC;UmC2kDA,yBAOmC,yB;QnCjlDA,iC;UmCilDA,yBAOmC,yB;QnCvlDA,iC;UmCulDA,yBAOmC,yB;QnC7lDA,iC;UmC6lDA,yBAOmC,yB;QnCnmDA,iC;UmCmmDA,yBAOmC,yB;QnCzmDA,iC;UmCymDA,yBAOmC,yB;QnC/mDA,iC;UmC+mDA,yBAOmC,yB;QnCrnDA,iC;UmCqnDA,yBAOmC,yB;QnC3nDA,iC;UmC2nDA,yBAOmC,yB;QnCjoDA,iC;UmCioDA,yBAOmC,yB;QnCvoDA,iC;UmCuoDA,yBAOmC,yB;QnC7oDA,iC;UmC6oDA,yBAOmC,yB;QnCnpDA,iC;UmCmpDA,yBAOmC,yB;QnCzpDA,iC;UmCypDA,yBAOmC,yB;QnC/pDA,iC;UmC+pDA,yBAOmC,yB;QnCrqDA,iC;UmCqqDA,yBAOmC,yB;QnC3qDA,iC;UmC2qDA,yBAOmC,yB;QnCjrDA,iC;UmCirDA,yBAOmC,yB;QnCvrDA,iC;UmCurDA,yBAOmC,yB;QnC7rDA,iC;UmC6rDA,yBAOmC,yB;QnCnsDA,iC;UmCmsDA,yBAOmC,yB;QnCzsDA,iC;UmCysDA,yBAOmC,yB;QnC/sDA,iC;UmC+sDA,yBAOmC,yB;QnCrtDA,iC;UmCqtDA,yBAOmC,yB;QnC3tDA,iC;UmC2tDA,yBAOmC,yB;QnCjuDA,iC;UmCiuDA,yBAOmC,yB;QnCvuDA,iC;UmCuuDA,yBAOmC,yB;QnC7uDA,iC;UmC6uDA,yBAOmC,yB;QnCnvDA,iC;UmCmvDA,yBAOmC,yB;QnCzvDA,iC;UmCyvDA,yBAOmC,yB;QnC/vDA,iC;UmC+vDA,yBAOmC,yB;QnCrwDA,iC;UmCqwDA,yBAOmC,yB;QnC3wDA,iC;UmC2wDA,yBAOmC,yB;QnCjxDA,iC;UmCixDA,yBAOmC,yB;QnCvxDA,iC;UmCuxDA,yBAOmC,yB;QnC7xDA,iC;UmC6xDA,yBAOmC,yB;QnCnyDA,iC;UmCmyDA,yBAOmC,yB;QnCzyDA,iC;UmCyyDA,yBAOmC,yB;QnC/yDA,iC;UmC+yDA,yBAOmC,yB;QnCrzDA,iC;UmCqzDA,yBAOmC,yB;QnC3zDA,iC;UmC2zDA,yBAOmC,yB;QnCj0DA,iC;UmCi0DA,yBAOmC,yB;QnCv0DA,iC;UmCu0DA,yBAOmC,yB;QnC70DA,iC;UmC60DA,yBAOmC,yB;QnCn1DA,iC;UmCm1DA,yBAOmC,yB;QnCz1DA,iC;UmCy1DA,yBAOmC,yB;QnC/1DA,iC;UmC+1DA,yBAOmC,yB;QnCr2DA,iC;UmCq2DA,yBAOmC,yB;QnC32DA,iC;UmC22DA,yBAOmC,yB;QnCj3DA,iC;UmCi3DA,yBAOmC,yB;QnCv3DA,iC;UmCu3DA,yBAOmC,yB;QnC73DA,iC;UmC63DA,yBAOmC,yB;QnCn4DA,iC;UmCm4DA,yBAOmC,yB;QnCz4DA,iC;UmCy4DA,yBAOmC,yB;QnC/4DA,iC;UmC+4DA,yBAOmC,yB;QnCr5DA,iC;UmCq5DA,yBAOmC,yB;QnC35DA,iC;UmC25DA,yBAOmC,yB;QnCj6DA,iC;UmCi6DA,yBAOmC,yB;QnCv6DA,iC;UmCu6DA,yBAOmC,yB;QnC76DA,iC;UmC66DA,yBAOmC,yB;QnCn7DA,iC;UmCm7DA,yBAOmC,yB;QnCz7DA,iC;UmCy7DA,yBAOmC,yB;QnC/7DA,iC;UmC+7DA,yBAOmC,yB;QnCr8DA,iC;UmCq8DA,yBAOmC,yB;QnC38DA,iC;UmC28DA,yBAOmC,yB;QnCj9DA,iC;UmCi9DA,yBAOmC,yB;QnCv9DA,iC;UmCu9DA,yBAOmC,yB;QnC79DA,iC;UmC69DA,yBAOmC,yB;QnCn+DA,iC;UmCm+DA,yBAOmC,yB;QnCz+DA,iC;UmCy+DA,yBAOmC,yB;QnC/+DA,iC;UmC++DA,yBAOmC,yB;QnCr/DA,iC;UmCq/DA,yBAOmC,yB;QnC3/DA,iC;UmC2/DA,yBAOmC,yB;QnCjgEA,iC;UmCigEA,yBAOmC,yB;QnCvgEA,iC;UmCugEA,yBAOmC,yB;QnC7gEA,iC;UmC6gEA,yBAOmC,yB;QnCnhEA,iC;UmCmhEA,yBAOmC,yB;QnCzhEA,iC;UmCyhEA,yBAOmC,yB;QnC/hEA,iC;UmC+hEA,yBAOmC,yB;QnCriEA,iC;UmCqiEA,yBAOmC,yB;QnC3iEA,iC;UmC2iEA,yBAOmC,yB;QnCjjEA,iC;UmCijEA,yBAOmC,yB;QnCvjEA,iC;UmCujEA,yBAOmC,yB;QnC7jEA,iC;UmC6jEA,yBAOmC,yB;QnCnkEA,iC;UmCmkEA,yBAOmC,yB;QnCzkEA,iC;UmCykEA,yBAOmC,yB;QnC/kEA,iC;UmC+kEA,yBAOmC,yB;QnCrlEA,iC;UmCqlEA,yBAOmC,yB;QnC3lEA,iC;UmC2lEA,yBAOmC,yB;QnCjmEA,iC;UmCimEA,yBAOmC,yB;QnCvmEA,iC;UmCumEA,yBAOmC,yB;QnC7mEA,iC;UmC6mEA,yBAOmC,yB;QnCnnEA,iC;UmCmnEA,yBAOmC,yB;QnCznEA,iC;UmCynEA,yBAOmC,yB;QnC/nEA,iC;UmC+nEA,yBAOmC,yB;QnCroEA,iC;UmCqoEA,yBAOmC,yB;QnC3oEA,iC;UmC2oEA,yBAOmC,yB;QnCjpEA,iC;UmCipEA,yBAOmC,yB;QnCvpEA,iC;UmCupEA,yBAOmC,yB;QnC7pEA,iC;UmC6pEA,yBAOmC,yB;QnCnqEA,iC;UmCmqEA,yBAOmC,yB;QnCzqEA,iC;UmCyqEA,yBAOmC,yB;QnC/qEA,iC;UmC+qEA,yBAOmC,yB;QnCrrEA,iC;UmCqrEA,yBAOmC,yB;QnC3rEA,iC;UmC2rEA,yBAOmC,yB;QnCjsEA,iC;UmCisEA,yBAOmC,yB;QnCvsEA,iC;UmCusEA,yBAOmC,yB;QnC7sEA,iC;UmC6sEA,yBAOmC,yB;QnCntEA,iC;UmCmtEA,yBAOmC,yB;QnCztEA,iC;UmCytEA,yBAOmC,yB;QnC/tEA,iC;UmC+tEA,yBAOmC,yB;QnCruEA,iC;UmCquEA,yBAOmC,yB;QnC3uEA,iC;UmC2uEA,yBAOmC,yB;QnCjvEA,iC;UmCivEA,yBAOmC,yB;QnCvvEA,iC;UmCuvEA,yBAOmC,yB;QnC7vEA,iC;UmC6vEA,yBAOmC,yB;QnCnwEA,iC;UmCmwEA,yBAOmC,yB;QnCzwEA,iC;UmCywEA,yBAOmC,yB;QnC/wEA,iC;UmC+wEA,yBAOmC,yB;QnCrxEA,iC;UmCqxEA,yBAOmC,yB;QnC3xEA,iC;UmC2xEA,yBAOmC,yB;QnCjyEA,iC;UmCiyEA,yBAOmC,yB;QnCvyEA,iC;UmCuyEA,yBAOmC,yB;QnC7yEA,iC;UmC6yEA,yBAOmC,yB;QnCnzEA,iC;UmCmzEA,yBAOmC,yB;QnCzzEA,iC;UmCyzEA,yBAOmC,yB;QnC/zEA,iC;UmC+zEA,yBAOmC,yB;QnCr0EA,iC;UmCq0EA,yBAOmC,yB;QnC30EA,iC;UmC20EA,yBAOmC,yB;QnCj1EA,iC;UmCi1EA,yBAOmC,yB;QnCv1EA,iC;UmCu1EA,yBAOmC,yB;QnC71EA,iC;UmC61EA,yBAOmC,yB;QnCn2EA,iC;UmCm2EA,yBAOmC,yB;QnCz2EA,iC;UmCy2EA,yBAOmC,yB;QnC/2EA,iC;UmC+2EA,yBAOmC,yB;QnCr3EA,iC;UmCq3EA,yBAOmC,yB;QnC33EA,iC;UmC23EA,yBAOmC,yB;QnCj4EA,iC;UmCi4EA,yBAOmC,yB;QnCv4EA,iC;UmCu4EA,yBAOmC,yB;QnC74EA,iC;UmC64EA,yBAOmC,yB;QnCn5EA,iC;UmCm5EA,yBAOmC,yB;QnCz5EA,iC;UmCy5EA,yBAOmC,yB;QnC/5EA,iC;UmC+5EA,yBAOmC,yB;QnCr6EA,iC;UmCq6EA,yBAOmC,yB;QnC36EA,iC;UmC26EA,yBAOmC,yB;QnCj7EA,iC;UmCi7EA,yBAOmC,yB;QnCv7EA,iC;UmCu7EA,yBAOmC,yB;QnC77EA,iC;UmC67EA,yBAOmC,yB;QnCn8EA,iC;UmCm8EA,yBAOmC,yB;QnCz8EA,iC;UmCy8EA,yBAOmC,yB;QnC/8EA,iC;UmC+8EA,yBAOmC,yB;QnCr9EA,iC;UmCq9EA,yBAOmC,yB;QnC39EA,iC;UmC29EA,yBAOmC,yB;QnCj+EA,iC;UmCi+EA,yBAOmC,yB;QnCv+EA,iC;UmCu+EA,yBAOmC,yB;QnC7+EA,iC;UmC6+EA,yBAOmC,yB;QnCn/EA,iC;UmCm/EA,yBAOmC,yB;QnCz/EA,iC;UmCy/EA,yBAOmC,yB;QnC//EA,iC;UmC+/EA,yBAOmC,yB;QnCrgFA,iC;UmCqgFA,yBAOmC,yB;QnC3gFA,iC;UmC2gFA,yBAOmC,yB;QnCjhFA,iC;UmCihFA,yBAOmC,yB;QnCvhFA,iC;UmCuhFA,yBAOmC,yB;QnC7hFA,iC;UmC6hFA,yBAOmC,yB;QnCniFA,iC;UmCmiFA,yBAOmC,yB;QnCziFA,iC;UmCyiFA,yBAOmC,yB;QnC/iFA,iC;UmC+iFA,yBAOmC,yB;QnCrjFA,iC;UmCqjFA,yBAOmC,yB;QnC3jFA,iC;UmC2jFA,yBAOmC,yB;QnCjkFA,iC;UmCikFA,yBAOmC,yB;QnCvkFA,iC;UmCukFA,yBAOmC,yB;QnC7kFA,iC;UmC6kFA,yBAOmC,yB;QnCnlFA,iC;UmCmlFA,yBAOmC,yB;QnCzlFA,iC;UmCylFA,yBAOmC,yB;QnC/lFA,iC;UmC+lFA,yBAOmC,yB;QnCrmFA,iC;UmCqmFA,yBAOmC,yB;QnC3mFA,iC;UmC2mFA,yBAOmC,yB;QnCjnFA,iC;UmCinFA,yBAOmC,yB;QnCvnFA,iC;UmCunFA,yBAOmC,yB;QnC7nFA,iC;UmC6nFA,yBAOmC,yB;QnCnoFA,iC;UmCmoFA,yBAOmC,yB;QnCzoFA,iC;UmCyoFA,yBAOmC,yB;QnC/oFA,iC;UmC+oFA,yBAOmC,yB;QnCrpFA,iC;UmCqpFA,yBAOmC,yB;QnC3pFA,iC;UmC2pFA,yBAOmC,yB;QnCjqFA,iC;UmCiqFA,yBAOmC,yB;QnCvqFA,iC;UmCuqFA,yBAOmC,yB;QnC7qFA,iC;UmC6qFA,yBAOmC,yB;QnCnrFA,iC;UmCmrFA,yBAOmC,yB;QnCzrFA,iC;UmCyrFA,yBAOmC,yB;QnC/rFA,iC;UmC+rFA,yBAOmC,yB;QnCrsFA,iC;UmCqsFA,yBAOmC,yB;QnC3sFA,iC;UmC2sFA,yBAOmC,yB;QnCjtFA,iC;UmCitFA,yBAOmC,yB;QnCvtFA,iC;UmCutFA,yBAOmC,yB;QnC7tFA,iC;UmC6tFA,yBAOmC,yB;QnCnuFA,iC;UmCmuFA,yBAOmC,yB;QnCzuFA,iC;UmCyuFA,yBAOmC,yB;QnC/uFA,iC;UmC+uFA,yBAOmC,yB;QnCrvFA,iC;UmCqvFA,yBAOmC,yB;QnC3vFA,iC;UmC2vFA,yBAOmC,yB;QnCjwFA,iC;UmCiwFA,yBAOmC,yB;QnCvwFA,iC;UmCuwFA,yBAOmC,yB;QnC7wFA,iC;UmC6wFA,yBAOmC,yB;QnCnxFA,iC;UmCmxFA,yBAOmC,yB;QnCzxFA,iC;UmCyxFA,yBAOmC,yB;QnC/xFA,iC;UmC+xFA,yBAOmC,yB;QnCryFA,iC;UmCqyFA,yBAOmC,yB;QnC3yFA,iC;UmC2yFA,yBAOmC,yB;QnCjzFA,iC;UmCizFA,yBAOmC,yB;QnCvzFA,iC;UmCuzFA,yBAOmC,yB;QnC7zFA,iC;UmC6zFA,yBAOmC,yB;QnCn0FA,iC;UmCm0FA,yBAOmC,yB;QnCz0FA,iC;UmCy0FA,yBAOmC,yB;QnC/0FA,iC;UmC+0FA,yBAOmC,yB;QnCr1FA,iC;UmCq1FA,yBAOmC,yB;QnC31FA,iC;UmC21FA,yBAOmC,yB;QnCj2FA,iC;UmCi2FA,yBAOmC,yB;QnCv2FA,iC;UmCu2FA,yBAOmC,yB;QnC72FA,iC;UmC62FA,yBAOmC,yB;QnCn3FA,iC;UmCm3FA,yBAOmC,yB;QnCz3FA,iC;UmCy3FA,yBAOmC,yB;QnC/3FA,iC;UmC+3FA,yBAOmC,yB;QnCr4FA,iC;UmCq4FA,yBAOmC,yB;QnC34FA,iC;UmC24FA,yBAOmC,yB;QnCj5FA,iC;UmCi5FA,yBAOmC,yB;QnCv5FA,iC;UmCu5FA,yBAOmC,yB;QnC75FA,iC;UmC

CV,cAAc,sBAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QAEnC,OAAO,I;O;KAbX,
C;6FAgBA,yB;MAAA,+C;MA0tFI,0D;MA1tFJ,uC;QASkB,Q;QAAA,OAAa,SAitFX,YAjtFF,SAitFN,QAAQ,CAjt
FW,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,cAAc,sBAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ
,C;YAAwB,OAAO,O;;QAEnC,OAAO,I;O;KAbX,C;6FAgBA,yB;MAAA,+C;MAktFI,0D;MAltFJ,uC;QASkB,Q;Q
AAA,OAAa,SAysFX,YAzsFF,SAysFN,QAAQ,CAzsFW,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,cAAc
,sBAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QAEnC,OAAO,I;O;KAbX,C;6FAgB
A,yB;MAAA,+C;MA0sFI,0D;MA1sFJ,uC;QASkB,Q;QAAA,OAAa,SAisFX,YAjsFF,SAisFN,QAAQ,CAjsFW,CA
Ab,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,cAAc,sBAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YA
AwB,OAAO,O;;QAEnC,OAAO,I;O;KAbX,C;qFAgBA,yB;MAAA,mC;MAAA,gD;MAAA,4B;QASI,OAAO,kBA
AO,cAAP,C;O;KATX,C;qFAYA,yB;MAAA,mC;MAAA,gD;MAAA,4B;QASI,OAAO,kBAAO,cAAP,C;O;KATX,
C;qFAYA,yB;MAAA,mC;MAAA,gD;MAAA,4B;QASI,OAAO,kBAAO,cAAP,C;O;KATX,C;qFAYA,yB;MAAA,
mC;MAAA,gD;MAAA,4B;QASI,OAAO,kBAAO,cAAP,C;O;KATX,C;IAYA,sC;MAQI,IAAI,mBAAJ,C;QACI,M
AAM,2BAAuB,iBAAvB,C;MACV,OAAO,sBAAI,MAAO,iBAAQ,cAAR,CAAX,C;K;IAGX,sC;MAQI,IAAI,mB
AAJ,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,sBAAI,MAAO,iBAAQ,cAAR,CAAX,C;K;IAGX,sC;
MAQI,IAAI,mBAAJ,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,sBAAI,MAAO,iBAAQ,cAAR,CAAX,
C;K;IAGX,sC;MAQI,IAAI,mBAAJ,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,sBAAI,MAAO,iBAAQ
,cAAR,CAAX,C;K;iGAGX,yB;MAAA,mC;MAAA,4D;MAAA,4B;QAQI,OAAO,wBAAa,cAAb,C;O;KARX,C;iG
AWA,yB;MAAA,mC;MAAA,4D;MAAA,4B;QAQI,OAAO,wBAAa,cAAb,C;O;KARX,C;iGAWA,yB;MAAA,mC
;MAAA,4D;MAAA,4B;QAQI,OAAO,wBAAa,cAAb,C;O;KARX,C;iGAWA,yB;MAAA,mC;MAAA,4D;MAAA,4
B;QAQI,OAAO,wBAAa,cAAb,C;O;KARX,C;IAWA,4C;MAOI,IAAI,mBAAJ,C;QACI,OAAO,I;MACX,OAAO,s
BAAI,MAAO,iBAAQ,cAAR,CAAX,C;K;IAGX,4C;MAOI,IAAI,mBAAJ,C;QACI,OAAO,I;MACX,OAAO,sBAA
I,MAAO,iBAAQ,cAAR,CAAX,C;K;IAGX,4C;MAOI,IAAI,mBAAJ,C;QACI,OAAO,I;MACX,OAAO,sBAAI,MA
AO,iBAAQ,cAAR,CAAX,C;K;IAGX,4C;MAOI,IAAI,mBAAJ,C;QACI,OAAO,I;MACX,OAAO,sBAAI,MAAO,i
BAAQ,cAAR,CAAX,C;K;qFAGX,yB;MAAA,gD;MnCh8BA,6B;MmCg8BA,4B;QAOI,OnC77BmC,cmC67BpB,
OAAR,iBAAQ,CnC77BoB,C;O;KmCs7BvC,C;qFAUA,yB;MAAA,gD;MnB37BA,+B;MmB27BA,4B;QAOI,OnB
x7BsC,emBw7BvB,OAAR,iBAAQ,CnBx7BuB,C;O;KmBi7B1C,C;qFAUA,yB;MAAA,gD;MpClgCA,+B;MoCkg
CA,4B;QAOI,OpC//BsC,eoC+/BvB,OAAR,iBAAQ,CpC//BuB,C;O;KoCw/B1C,C;qFAUA,yB;MAAA,gD;MlC//B
A,iC;MkC+/BA,4B;QAOI,OlC5/ByC,gBkC4/B1B,OAAR,iBAAQ,ClC5/B0B,C;O;KkCq/B7C,C;qFAUA,yB;MAA
A,kF;MAAA,iE;MAAA,wB;MAAA,8B;MAAA,uC;QASoB,UAST,M;QAXP,aAAoB,I;QACpB,YAAY,K;QACI,2
B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,UAAU,OAAV,CAAJ,C;YACI,IAAI,KAAJ,C;cAAW,MA
AM,8BAAyB,gDAAzB,C;YACjB,SAAS,O;YACT,QAAQ,I;;QAGhB,IAAI,CAAC,KAAL,C;UAAY,MAAM,gCA
AuB,mDAAvB,C;QAElB,OAAO,0D;O;KAlBX,C;qFAqBA,yB;MAAA,kF;MAAA,iE;MAAA,0B;MAAA,8B;MA
AA,uC;QASoB,UAST,M;QAXP,aAAqB,I;QACrB,YAAY,K;QACI,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;U
ACZ,IAAI,UAAU,OAAV,CAAJ,C;YACI,IAAI,KAAJ,C;cAAW,MAAM,8BAAyB,gDAAzB,C;YACjB,SAAS,O;Y
ACT,QAAQ,I;;QAGhB,IAAI,CAAC,KAAL,C;UAAY,MAAM,gCAAuB,mDAAvB,C;QAElB,OAAO,2D;O;KAlB
X,C;qFAqBA,yB;MAAA,kF;MAAA,iE;MAAA,0B;MAAA,8B;MAAA,uC;QASoB,UAST,M;QAXP,aAAqB,I;QA
CrB,YAAY,K;QACI,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,UAAU,OAAV,CAAJ,C;YACI,IAAI
,KAAJ,C;cAAW,MAAM,8BAAyB,gDAAzB,C;YACjB,SAAS,O;YACT,QAAQ,I;;QAGhB,IAAI,CAAC,KAAL,C;
UAAY,MAAM,gCAAuB,mDAAvB,C;QAElB,OAAO,2D;O;KAlBX,C;qFAqBA,yB;MAAA,kF;MAAA,iE;MAAA
,4B;MAAA,8B;MAAA,uC;QASoB,UAST,M;QAXP,aAAsB,I;QACtB,YAAY,K;QACI,2B;QAAhB,OAAgB,cAAh
B,C;UAAgB,yB;UACZ,IAAI,UAAU,OAAV,CAAJ,C;YACI,IAAI,KAAJ,C;cAAW,MAAM,8BAAyB,gDAAzB,C;
YACjB,SAAS,O;YACT,QAAQ,I;;QAGhB,IAAI,CAAC,KAAL,C;UAAY,MAAM,gCAAuB,mDAAvB,C;QAElB,
OAAO,4D;O;KAlBX,C;IAqBA,oC;MAMI,OAAW,mBAAQ,CAAZ,GAAe,sBAAK,CAAL,CAAf,GAA4B,I;K;IA
GvC,oC;MAMI,OAAW,mBAAQ,CAAZ,GAAe,sBAAK,CAAL,CAAf,GAA4B,I;K;IAGvC,oC;MAMI,OAAW,mB
AAQ,CAAZ,GAAe,sBAAK,CAAL,CAAf,GAA4B,I;K;IAGvC,oC;MAMI,OAAW,mBAAQ,CAAZ,GAAe,sBAAK
,CAAL,CAAf,GAA4B,I;K;iGAGvC,gC;MASoB,Q;MAFhB,aAAoB,I;MACpB,YAAY,K;MACI,2B;MAAhB,OAA
gB,cAAhB,C;QAAgB,yB;QACZ,IAAI,UAAU,OAAV,CAAJ,C;UACI,IAAI,KAAJ,C;YAAW,OAAO,I;UAClB,SA
AS,O;UACT,QAAQ,I;;MAGhB,IAAI,CAAC,KAAL,C;QAAY,OAAO,I;MACnB,OAAO,M;K;iGAGX,gC;MASoB

,Q;MAFhB,aAAqB,I;MACrB,YAAY,K;MACI,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,UAAU,O
AAV,CAAJ,C;UACI,IAAI,KAAJ,C;YAAW,OAAO,I;UAClB,SAAS,O;UACT,QAAQ,I;;MAGhB,IAAI,CAAC,KA
AL,C;QAAY,OAAO,I;MACnB,OAAO,M;K;iGAGX,gC;MASoB,Q;MAFhB,aAAqB,I;MACrB,YAAY,K;MACI,2
B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,UAAU,OAAV,CAAJ,C;UACI,IAAI,KAAJ,C;YAAW,OA
AO,I;UAClB,SAAS,O;UACT,QAAQ,I;;MAGhB,IAAI,CAAC,KAAL,C;QAAY,OAAO,I;MACnB,OAAO,M;K;iG
AGX,gC;MASoB,Q;MAFhB,aAAsB,I;MACtB,YAAY,K;MACI,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAC
Z,IAAI,UAAU,OAAV,CAAJ,C;UACI,IAAI,KAAJ,C;YAAW,OAAO,I;UAClB,SAAS,O;UACT,QAAQ,I;;MAGhB
,IAAI,CAAC,KAAL,C;QAAY,OAAO,I;MACnB,OAAO,M;K;IAGX,+B;MxBrhDI,IAAI,EwB+hDI,KAAK,CxB/h
DT,CAAJ,C;QACI,cwB8hDc,sD;QxB7hDd,MAAM,gCAAyB,OAAQ,WAAjC,C;OwB8hDV,OAAO,uBAAoB,gB
AAV,iBAAO,CAAP,IAAU,EAAc,CAAd,CAApB,C;K;IAGX,+B;MxBniDI,IAAI,EwB6iDI,KAAK,CxB7iDT,CA
AJ,C;QACI,cwB4iDc,sD;QxB3iDd,MAAM,gCAAyB,OAAQ,WAAjC,C;OwB4iDV,OAAO,uBAAoB,gBAAV,iBA
AO,CAAP,IAAU,EAAc,CAAd,CAApB,C;K;IAGX,+B;MxBjjDI,IAAI,EwB2jDI,KAAK,CxB3jDT,CAAJ,C;QACI,
cwB0jDc,sD;QxBzjDd,MAAM,gCAAyB,OAAQ,WAAjC,C;OwB0jDV,OAAO,uBAAoB,gBAAV,iBAAO,CAAP,I
AAU,EAAc,CAAd,CAApB,C;K;IAGX,+B;MxB/jDI,IAAI,EwBykDI,KAAK,CxBzkDT,CAAJ,C;QACI,cwBwkDc,
sD;QxBvkDd,MAAM,gCAAyB,OAAQ,WAAjC,C;OwBwkDV,OAAO,uBAAoB,gBAAV,iBAAO,CAAP,IAAU,E
AAc,CAAd,CAApB,C;K;IAGX,mC;MxB7kDI,IAAI,EwBulDI,KAAK,CxBvlDT,CAAJ,C;QACI,cwBslDc,sD;QxB
rlDd,MAAM,gCAAyB,OAAQ,WAAjC,C;OwBslDV,OAAO,mBAAgB,gBAAV,iBAAO,CAAP,IAAU,EAAc,CAA
d,CAAhB,C;K;IAGX,mC;MxB3lDI,IAAI,EwBqmDI,KAAK,CxBrmDT,CAAJ,C;QACI,cwBomDc,sD;QxBnmDd,
MAAM,gCAAyB,OAAQ,WAAjC,C;OwBomDV,OAAO,mBAAgB,gBAAV,iBAAO,CAAP,IAAU,EAAc,CAAd,C
AAhB,C;K;IAGX,mC;MxBzmDI,IAAI,EwBmnDI,KAAK,CxBnnDT,CAAJ,C;QACI,cwBkndc,sD;QxBjnDd,MA
AM,gCAAyB,OAAQ,WAAjC,C;OwBkndV,OAAO,mBAAgB,gBAAV,iBAAO,CAAP,IAAU,EAAc,CAAd,CAAh
B,C;K;IAGX,mC;MxBvnDI,IAAI,EwBioDI,KAAK,CxBjoDT,CAAJ,C;QACI,cwBgoDc,sD;QxB/nDd,MAAM,gC
AAyB,OAAQ,WAAjC,C;OwBgoDV,OAAO,mBAAgB,gBAAV,iBAAO,CAAP,IAAU,EAAc,CAAd,CAAhB,C;K;
mGAGX,yB;MAAA,4C;MAAA,qD;MAkqEI,8D;MAlqEJ,uC;QASI,iBAypEgB,cAAR,iBAAQ,CAzpEhB,WAA+B
,CAA/B,U;UACI,IAAI,CAAC,UAAU,sBAAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAA
L,C;;QAGf,OAAO,W;O;KAdX,C;mGAiBA,yB;MAAA,4C;MAAA,qD;MAypEI,8D;MAzpEJ,uC;QASI,iBAgpEgB
,cAAR,iBAAQ,CAhpEhB,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,sBAAK,KAAL,CAAV,CAAL,C;YACI,
OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;QAGf,OAAO,W;O;KAdX,C;mGAiBA,yB;MAAA,4C;MAAA,qD;MAgp
EI,8D;MAhpEJ,uC;QASI,iBAuoEgB,cAAR,iBAAQ,CAvoEhB,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,sB
AAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;QAGf,OAAO,W;O;KAdX,C;mGAi
BA,yB;MAAA,4C;MAAA,qD;MAuoEI,8D;MAvoEJ,uC;QASI,iBA8nEgB,cAAR,iBAAQ,CA9nEhB,WAA+B,CA
A/B,U;UACI,IAAI,CAAC,UAAU,sBAAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C
;;QAGf,OAAO,W;O;KAdX,C;2FAiBA,yB;MAAA,+D;MAAA,uC;QAWiB,Q;QAFb,eAAe,K;QACf,WAAW,gB;Q
ACE,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,IAAI,QAAJ,C;YACI,IAAK,WAAI,IAAJ,C;eACJ,IAAI,CAAC,U
AAU,IAAV,CAAL,C;YACD,IAAK,WAAI,IAAJ,C;YACL,WAAW,I;;QAEnB,OAAO,I;O;KAlBX,C;2FAqBA,yB;
MAAA,+D;MAAA,uC;QAWiB,Q;QAFb,eAAe,K;QACf,WAAW,gB;QACE,2B;QAAb,OAAa,cAAb,C;UAAa,sB;
UACT,IAAI,QAAJ,C;YACI,IAAK,WAAI,IAAJ,C;eACJ,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACD,IAAK,WAA
I,IAAJ,C;YACL,WAAW,I;;QAEnB,OAAO,I;O;KAlBX,C;2FAqBA,yB;MAAA,+D;MAAA,uC;QAWiB,Q;QAFb,e
AAe,K;QACf,WAAW,gB;QACE,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,IAAI,QAAJ,C;YACI,IAAK,WAAI,I
AAJ,C;eACJ,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACD,IAAK,WAAI,IAAJ,C;YACL,WAAW,I;;QAEnB,OAAO
,I;O;KAlBX,C;2FAqBA,yB;MAAA,+D;MAAA,uC;QAWiB,Q;QAFb,eAAe,K;QACf,WAAW,gB;QACE,2B;QAA
b,OAAa,cAAb,C;UAAa,sB;UACT,IAAI,QAAJ,C;YACI,IAAK,WAAI,IAAJ,C;eACJ,IAAI,CAAC,UAAU,IAAV,C
AAL,C;YACD,IAAK,WAAI,IAAJ,C;YACL,WAAW,I;;QAEnB,OAAO,I;O;KAlBX,C;qFAqBA,yB;MAAA,+D;M
AAA,uC;QASW,kBAAS,gB;QAgRA,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAhRa,SAgR
T,CAAU,OAAV,CAAJ,C;YAAwB,WAAY,WAAI,OAAJ,C;;QAhR1D,OAiRO,W;O;KA1RX,C;qFAYA,yB;MAA
A,+D;MAAA,uC;QASW,kBAAS,gB;QAiRA,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAjRc,
SAiRV,CAAU,OAAV,CAAJ,C;YAAwB,WAAY,WAAI,OAAJ,C;;QAjR1D,OAkRO,W;O;KA3RX,C;qFAYA,yB;
MAAA,+D;MAAA,uC;QASW,kBAAS,gB;QAkRA,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,

IAlRc,SAkRV,CAAU,OAAV,CAAJ,C;YAAwB,WAAY,WAAI,OAAJ,C;;QAlR1D,OAmRO,W;O;KA5RX,C;qFA
YA,yB;MAAA,+D;MAAA,uC;QASW,kBAAS,gB;QAmRA,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;
UAAM,IAnRe,SAmRX,CAAU,OAAV,CAAJ,C;YAAwB,WAAY,WAAI,OAAJ,C;;QAnR1D,OAoRO,W;O;KA7R
X,C;kGAYA,yB;MAAA,+D;MAAA,uC;QAWW,kBAAgB,gB;QAm5HV,gB;QADb,YAAY,C;QACC,2B;QAAb,O
AAa,cAAb,C;UAAa,sB;UA11HT,IAzDsC,SAyDlC,EA01HkB,cA11HlB,EA01HkB,sBA11HlB,WA01H2B,IA11H
3B,CAAJ,C;YAA2C,sBA01HZ,IA11HY,C;;QAzD/C,OA2DO,W;O;KAtEX,C;mGAcA,yB;MAAA,+D;MAAA,uC;
QAWW,kBAAgB,gB;QAk5HV,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UAt1HT,IA5Du
C,SA4DnC,EAs1HkB,cAt1HlB,EAs1HkB,sBAt1HlB,WAs1H2B,IAt1H3B,CAAJ,C;YAA2C,sBAs1HZ,IAt1HY,C;
;QA5D/C,OA8DO,W;O;KAzEX,C;mGAcA,yB;MAAA,+D;MAAA,uC;QAWW,kBAAgB,gB;QAi5HV,gB;QADb,
YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UAl1HT,IA/DuC,SA+D+B,EAk1HkB,cAk1HlB,EAk1HkB,s
BAl1HlB,WAk1H2B,IAl1H3B,CAAJ,C;YAA2C,sBAk1HZ,IAl1HY,C;;QA/D/C,OAiEiEO,W;O;KA5EX,C;mG
AcA,yB;MAAA,+D;MAAA,uC;QAWW,kBAAgB,gB;QAg5HV,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;
UAAa,sB;UA90HT,IAlEwC,SAkEpC,EA80HkB,cA90HlB,EA80HkB,sBA90HlB,WA80H2B,IA90H3B,CAAJ,C;Y
AA2C,sBA80HZ,IA90HY,C;;QAlE/C,OAoEO,W;O;KA/EX,C;uGAcA,6C;MAs2HiB,gB;MADb,YAAY,C;MACC,
2B;MAAb,OAAa,cAAb,C;QAAa,sB;QA11HT,IAAI,WA01HkB,cA11HlB,EA01HkB,sBA11HlB,WA01H2B,IA11
H3B,CAAJ,C;UAA2C,sBA01HZ,IA11HY,C;;MAE/C,OAAO,W;K;uGAGX,6C;MAk2HiB,gB;MADb,YAAY,C;M
ACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QAt1HT,IAAI,WAs1HkB,cAt1HlB,EAs1HkB,sBAt1HlB,WAs1H2B,IA
t1H3B,CAAJ,C;UAA2C,sBAs1HZ,IAt1HY,C;;MAE/C,OAAO,W;K;uGAGX,6C;MA81HiB,gB;MADb,YAAY,C;
MACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QAl1HT,IAAI,WAk1HkB,cAk1HlB,EAk1HkB,sBAl1HlB,WAk1H2B
,IAl1H3B,CAAJ,C;UAA2C,sBAk1HZ,IAl1HY,C;;MAE/C,OAAO,W;K;uGAGX,6C;MA01HiB,gB;MADb,YAY,
C;MACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QA90HT,IAAI,WA80HkB,cA90HlB,EA80HkB,sBA90HlB,WA80
H2B,IA90H3B,CAAJ,C;UAA2C,sBA80HZ,IA90HY,C;;MAE/C,OAAO,W;K;2FAGX,yB;MAAA,+D;MAAA,uC;
QASW,kBAAY,gB;QAgDH,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,CAhDY,SAgDX,
CAAU,OAAV,CAAL,C;YAAyB,WAAY,WAAI,OAAJ,C;;QAhD3D,OAiDO,W;O;KA1DX,C;2FAYA,yB;MAAA,
+D;MAAA,uC;QASW,kBAAY,gB;QAiDH,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,C
AjDa,SAiDZ,CAAU,OAAV,CAAL,C;YAAyB,WAAY,WAAI,OAAJ,C;;QAjD3D,OAkDO,W;O;KA3DX,C;2FAYA,
yB;MAAA,+D;MAAA,uC;QASW,kBAAY,gB;QAkDH,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;U
AAM,IAAI,CAlDa,SAkDZ,CAAU,OAAV,CAAL,C;YAAyB,WAAY,WAAI,OAAJ,C;;QAlD3D,OAmDO,W;O;K
A5DX,C;2FAYA,yB;MAAA,+D;MAAA,uC;QASW,kBAAY,gB;QAmDH,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,
C;UAAgB,yB;UAAM,IAAI,CAnDc,SAmDb,CAAU,OAAV,CAAL,C;YAAyB,WAAY,WAAI,OAAJ,C;;QAnD3D,
OAoDO,W;O;KA7DX,C;+FAcA,+B;MASoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI
,CAAC,UAAU,OAAV,CAAL,C;UAAyB,WAAY,WAAI,OAAJ,C;;MAC3D,OAAO,W;K;+FAGX,6C;MASoB,Q;
MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,WAA
Y,WAAI,OAAJ,C;;MAC3D,OAAO,W;K;+FAGX,6C;MASoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,
yB;QAAM,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,WAAY,WAAI,OAAJ,C;;MAC3D,OAAO,W;K;+FAGX
,6C;MASoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,CAAC,UAAU,OAAV,CAAL,C;
UAAyB,WAAY,WAAI,OAAJ,C;;MAC3D,OAAO,W;K;yFAGX,6C;MASoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,
C;QAAgB,yB;QAAM,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,WAAY,WAAI,OAAJ,C;;MAC3D,OAAO,W;K
;yFAGX,6C;MASoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,CAAC,UAAU,OAAV,C;
UAAyB,WAAY,WAAI,OAAJ,C;;MAC3D,OAAO,W;K;yFAGX,6C;MASoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,
C;QAAgB,yB;QAAM,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,WAAY,WAAI,OAAJ,C;;MAC3D,OAAO,W;K
;yFAGX,6C;MASoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,CAAC,UAAU,OAAV,C;
UAAyB,WAAY,WAAI,OAAJ,C;;MAC3D,OAAO,W;K;IAGX,sC;MAMI,IAAI,OAAAQ,UAAAZ,C;QAAuB,OhCvjE
e,W;OgCwjEtC,OAA4D,SA0iDrD,cAAkB,cAAR,iBAAAQ,EA1iDN,OAAAQ,MA0iDF,EA1iDS,OAAAQ,aAAR,GAAA
uB,CAAAvB,IA0iDT,CAAlB,CA1iDqD,C;K;IAGhE,sC;MAMI,IAAI,OAAAQ,UAAAZ,C;QAAuB,OhCkkEE
tC,OAA4D,SAgjDrD,eAAmB,cAAR,iBAAAQ,EAhjDN,OAAAQ,MAgjDF,EAhjDS,OAAAQ,aAAR,GAAAuB,CAAAvB
,IAgjDR,CAAnB,ChjDqD,C;K;IAGhE,sC;MAMI,IAAI,OAAAQ,UAAAZ,C;QAAuB,OhC3kEE,W;OgC4kEtC,OAA
4D,UAsjDrD,eAAmB,cAAR,iBAAAQ,EAtjDN,OAAAQ,MAsjDF,EAtjDS,OAAAQ,aAAR,GAAAuB,CAAAvB,IAsjDR,C

AAnB,CAtjDqD,C;K;IAGhE,sC;MAMI,IAAI,OAAQ,UAAZ,C;QAAuB,OhCrlEe,W;OgCslEtC,OAA4D,UA4jDrD
,gBAAoB,cAAR,iBAAQ,EA5jDR,OAAQ,MA4jDA,EA5jDO,OAAQ,aAAR,GAAuB,CAAvB,IA4jDP,CAApB,CA
5jDqD,C;K;IAGhE,sC;MASkB,Q;MAHd,WAAmB,wBAAR,OAAQ,EAAwB,EAAxB,C;MACnB,IAAI,SAAQ,CA
AZ,C;QAAe,OAAO,W;MACtB,WAAW,iBAAgB,IAAhB,C;MACG,yB;MAAd,OAAc,cAAd,C;QAAc,uB;QACV,I
AAK,WAAI,sBAAI,KAAJ,CAAJ,C;;MAET,OAAO,I;K;IAGX,sC;MASkB,Q;MAHd,WAAmB,wBAAR,OAAQ,E
AAwB,EAAxB,C;MACnB,IAAI,SAAQ,CAAZ,C;QAAe,OAAO,W;MACtB,WAAW,iBAAiB,IAAjB,C;MACG,yB
;MAAd,OAAc,cAAd,C;QAAc,uB;QACV,IAAK,WAAI,sBAAI,KAAJ,CAAJ,C;;MAET,OAAO,I;K;IAGX,sC;MA
SkB,Q;MAHd,WAAmB,wBAAR,OAAQ,EAAwB,EAAxB,C;MACnB,IAAI,SAAQ,CAAZ,C;QAAe,OAAO,W;M
ACtB,WAAW,iBAAiB,IAAjB,C;MACG,yB;MAAd,OAAc,cAAd,C;QAAc,uB;QACV,IAAK,WAAI,sBAAI,KAAJ
,CAAJ,C;;MAET,OAAO,I;K;IAGX,sC;MASkB,Q;MAHd,WAAmB,wBAAR,OAAQ,EAAwB,EAAxB,C;MACnB,
IAAI,SAAQ,CAAZ,C;QAAe,OAAO,W;MACtB,WAAW,iBAAkB,IAAlB,C;MACG,yB;MAAd,OAAc,cAAd,C;Q
AAc,uB;QACV,IAAK,WAAI,sBAAI,KAAJ,CAAJ,C;;MAET,OAAO,I;K;IAGX,2C;MAMI,OAAO,cAAkB,aAAR,
iBAAQ,EAAW,OAAX,CAAlB,C;K;IAGX,2C;MAMI,OAAO,eAAmB,aAAR,iBAAQ,EAAW,OAAX,CAAnB,C;K
;IAGX,2C;MAMI,OAAO,eAAmB,aAAR,iBAAQ,EAAW,OAAX,CAAnB,C;K;IAGX,2C;MAMI,OAAO,gBAAoB,
aAAR,iBAAQ,EAAW,OAAX,CAApB,C;K;IAGX,2C;MAMI,OAAO,cAAkB,cAAR,iBAAQ,EAAW,OAAX,CAAl
B,C;K;IAGX,2C;MAMI,OAAO,eAAmB,cAAR,iBAAQ,EAAW,OAAX,CAAnB,C;K;IAGX,2C;MAMI,OAAO,eA
AmB,aAAR,iBAAQ,EAAW,OAAX,CAAnB,C;K;IAGX,2C;MAMI,OAAO,gBAAoB,cAAR,iBAAQ,EAAW,OAA
X,CAApB,C;K;IAGX,+B;MAgBiB,Q;MxB7xEb,IAAI,EwBuxEI,KAAK,CxBvxET,CAAJ,C;QACI,cwBsxEc,sD;Q
xBrxEd,MAAM,gCAAyB,OAAQ,WAAjC,C;OwBsxEV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,IAAI,
KAAK,cAAT,C;QAAe,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,sBAAK,CAAL,CAAP,
C;MACnB,YAAY,C;MACZ,WAAW,iBAAgB,CAAhB,C;MACE,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,IAA
K,WAAI,IAAJ,C;QACL,IAAI,mCAAW,CAAf,C;UACI,K;;MAER,OAAO,I;K;IAGX,+B;MAgBiB,Q;MxBrzEb,IA
AI,EwB+yEI,KAAK,CxB/yET,CAAJ,C;QACI,cwB8yEc,sD;QxB7yEd,MAAM,gCAAyB,OAAQ,WAAjC,C;OwB8
yEV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,IAAI,KAAK,cAAT,C;QAAe,OAAO,mB;MACtB,IAAI,M
AAK,CAAT,C;QAAY,OAAO,OAAO,sBAAK,CAAL,CAAP,C;MACnB,YAAY,C;MACZ,WAAW,iBAAiB,CAAj
B,C;MACE,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,IAAK,WAAI,IAAJ,C;QACL,IAAI,mCAAW,CAAf,C;UA
CI,K;;MAER,OAAO,I;K;IAGX,+B;MAgBiB,Q;MxB70Eb,IAAI,EwBu0EI,KAAK,CxBv0ET,CAAJ,C;QACI,cwBs
0Ec,sD;QxBr0Ed,MAAM,gCAAyB,OAAQ,WAAjC,C;OwBs0EV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MAC
nB,IAAI,KAAK,cAAT,C;QAAe,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,sBAAK,CAA
L,CAAP,C;MACnB,YAAY,C;MACZ,WAAW,iBAAiB,CAAjB,C;MACE,2B;MAAb,OAAa,cAAb,C;QAAa,sB;Q
ACT,IAAK,WAAI,IAAJ,C;QACL,IAAI,mCAAW,CAAf,C;UACI,K;;MAER,OAAO,I;K;IAGX,+B;MAgBiB,Q;M
xBr2Eb,IAAI,EwB+1EI,KAAK,CxB/1ET,CAAJ,C;QACI,cwB81Ec,sD;QxB71Ed,MAAM,gCAAyB,OAAQ,WAAj
C,C;OwB81EV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,IAAI,KAAK,cAAT,C;QAAe,OAAO,mB;MAC
tB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,sBAAK,CAAL,CAAP,C;MACnB,YAAY,C;MACZ,WAAW,iBA
AkB,CAAlB,C;MACE,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,IAAK,WAAI,IAAJ,C;QACL,IAAI,mCAAW,
CAAf,C;UACI,K;;MAER,OAAO,I;K;IAGX,mC;MxB72EI,IAAI,EwBu3EI,KAAK,CxBv3ET,CAAJ,C;QACI,cwB
s3Ec,sD;QxBr3Ed,MAAM,gCAAyB,OAAQ,WAAjC,C;OwBs3EV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MAC
nB,WAAW,c;MACX,IAAI,KAAK,IAAT,C;QAAe,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OA
AO,sBAAK,OAAO,CAAP,IAAL,CAAP,C;MACnB,WAAW,iBAAgB,CAAhB,C;MACX,iBAAc,OAAO,CAAP,IA
Ad,UAA6B,IAA7B,U;QACI,IAAK,WAAI,sBAAK,KAAL,CAAJ,C;MACT,OAAO,I;K;IAGX,mC;MxBl4EI,IAAI,
EwB44EI,KAAK,CxB54ET,CAAJ,C;QACI,cwB24Ec,sD;QxB14Ed,MAAM,gCAAyB,OAAQ,WAAjC,C;OwB24E
V,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,WAAW,c;MACX,IAAI,KAAK,IAAT,C;QAAe,OAAO,mB;
MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,sBAAK,OAAO,CAAP,IAAL,CAAP,C;MACnB,WAAW,iB
AAiB,CAAjB,C;MACX,iBAAc,OAAO,CAAP,IAAd,UAA6B,IAA7B,U;QACI,IAAK,WAAI,sBAAK,KAAL,CAA
J,C;MACT,OAAO,I;K;IAGX,mC;MxBv5EI,IAAI,EwBi6EI,KAAK,CxBj6ET,CAAJ,C;QACI,cwBg6Ec,sD;QxB/5
Ed,MAAM,gCAAyB,OAAQ,WAAjC,C;OwBg6EV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,WAAW,c;
MACX,IAAI,KAAK,IAAT,C;QAAe,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,sBAAK,O
AAO,CAAP,IAAL,CAAP,C;MACnB,WAAW,iBAAiB,CAAjB,C;MACX,iBAAc,OAAO,CAAP,IAAd,UAA6B,IA

A7B,U;QACI,IAAK,WAAI,sBAAK,KAAL,CAAJ,C;MACT,OAAO,I;K;IAGX,mC;MxB56EI,IAAI,EwBs7EI,KA
AK,CxBt7ET,CAAJ,C;QACI,cwBq7Ec,sD;QxBp7Ed,MAAM,gCAAyB,OAAQ,WAAjC,C;OwBq7EV,IAAI,MAA
K,CAAT,C;QAAY,OAAO,W;MACnB,WAAW,c;MACX,IAAI,KAAK,IAAT,C;QAAe,OAAO,mB;MACtB,IAAI,
MAAK,CAAT,C;QAAY,OAAO,OAAO,sBAAK,OAAO,CAAP,IAAL,CAAP,C;MACnB,WAAW,iBAAkB,CAAl
B,C;MACX,iBAAc,OAAO,CAAP,IAAd,UAA6B,IAA7B,U;QACI,IAAK,WAAI,sBAAK,KAAL,CAAJ,C;MACT,
OAAO,I;K;mGAGX,yB;MAAA,4C;MAAA,gD;MAs2CI,8D;MAt2CJ,uC;QASI,iBA61CgB,cAAR,iBAAQ,CA71C
hB,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,sBAAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ
,CAAR,IAAL,C;;QAGf,OAAO,iB;O;KAdX,C;mGAiBA,yB;MAAA,4C;MAAA,gD;MA61CI,8D;MA71CJ,uC;QA
SI,iBAo1CgB,cAAR,iBAAQ,CAp1ChB,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,sBAAK,KAAL,CAAV,C
AAL,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;QAGf,OAAO,iB;O;KAdX,C;mGAiBA,yB;MAAA,4C;MA
AA,gD;MAo1CI,8D;MAp1CJ,uC;QASI,iBA20CgB,cAAR,iBAAQ,CA30ChB,WAA+B,CAA/B,U;UACI,IAAI,CA
AC,UAAU,sBAAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;QAGf,OAAO,iB;O;K
AdX,C;mGAiBA,yB;MAAA,4C;MAAA,gD;MA20CI,8D;MA30CJ,uC;QASI,iBAk0CgB,cAAR,iBAAQ,CAl0ChB,
WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,sBAAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,C
AAR,IAAL,C;;QAGf,OAAO,iB;O;KAdX,C;2FAiBA,yB;MAAA,+D;MAAA,uC;QAUiB,Q;QADb,WAAW,gB;QA
CE,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACI,K;UACJ,IAAK,WAAI
,IAAJ,C;;QAET,OAAO,I;O;KAfX,C;2FAkBA,yB;MAAA,+D;MAAA,uC;QAUiB,Q;QADb,WAAW,gB;QACE,2B
;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACI,K;UACJ,IAAK,WAAI,IAAJ,
C;;QAET,OAAO,I;O;KAfX,C;2FAkBA,yB;MAAA,+D;MAAA,uC;QAUiB,Q;QADb,WAAW,gB;QACE,2B;QAA
b,OAAa,cAAb,C;UAAa,sB;UACT,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACI,K;UACJ,IAAK,WAAI,IAAJ,C;;QA
ET,OAAO,I;O;KAfX,C;2FAkBA,yB;MAAA,+D;MAAA,uC;QAUiB,Q;QADb,WAAW,gB;QACE,2B;QAAb,OAA
a,cAAb,C;UAAa,sB;UACT,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACI,K;UACJ,IAAK,WAAI,IAAJ,C;;QAET,OA
AO,I;O;KAfX,C;uFAkBA,yB;MAAA,kD;MAAA,4B;QAOY,QAAR,iBAAQ,C;O;KAPZ,C;uFAUA,yB;MAAA,kD
;MAAA,4B;QAOY,QAAR,iBAAQ,C;O;KAPZ,C;uFAUA,yB;MAAA,kD;MAAA,4B;QAOY,QAAR,iBAAQ,C;O;
KAPZ,C;uFAUA,yB;MAAA,kD;MAAA,4B;QAOY,QAAR,iBAAQ,C;O;KAPZ,C;uFAUA,yB;MAAA,kD;MAAA,
gD;QAaY,QAAR,iBAAQ,EAAQ,SAAR,EAAmB,OAAnB,C;O;KAbZ,C;uFAgBA,yB;MAAA,kD;MAAA,gD;QAa
Y,QAAR,iBAAQ,EAAQ,SAAR,EAAmB,OAAnB,C;O;KAbZ,C;uFAgBA,yB;MAAA,kD;MAAA,gD;QAaY,QAA
R,iBAAQ,EAAQ,SAAR,EAAmB,OAAnB,C;O;KAbZ,C;sFAgBA,yB;MAAA,kD;MAAA,gD;QAaY,QAAR,iBAA
Q,EAAQ,SAAR,EAAmB,OAAnB,C;O;KAbZ,C;IAgBA,gC;MAMI,IAAI,mBAAJ,C;QAAe,OAAO,W;MACtB,W
AAW,0B;MACN,WAAL,IAAK,C;MACL,OAAO,I;K;IAGX,gC;MAMI,IAAI,mBAAJ,C;QAAe,OAAO,W;MACtB
,WAAW,0B;MACN,WAAL,IAAK,C;MACL,OAAO,I;K;IAGX,gC;MAMI,IAAI,mBAAJ,C;QAAe,OAAO,W;MA
CtB,WAAW,0B;MACN,WAAL,IAAK,C;MACL,OAAO,I;K;IAGX,gC;MAMI,IAAI,mBAAJ,C;QAAe,OAAO,W;
MACtB,WAAW,0B;MACN,WAAL,IAAK,C;MACL,OAAO,I;K;kGAGX,yB;MAAA,8D;MAAA,uC;MAAA,4B;Q
AOI,OAAO,mBAAkB,cAAR,iBAAQ,CAAlB,C;O;KAPX,C;kGAUA,yB;MAAA,8D;MAAA,yC;MAAA,4B;QAOI
,OAAO,oBAAmB,cAAR,iBAAQ,CAAnB,C;O;KAPX,C;mGAUA,yB;MAAA,8D;MAAA,yC;MAAA,4B;QAOI,O
AAO,oBAAmB,cAAR,iBAAQ,CAAnB,C;O;KAPX,C;mGAUA,yB;MAAA,8D;MAAA,2C;MAAA,4B;QAOI,OA
AO,qBAAoB,cAAR,iBAAQ,CAApB,C;O;KAPX,C;IAUA,+B;MAMI,sBAAQ,4BAAR,C;K;IAGJ,+B;MAMI,sBA
AQ,4BAAR,C;K;IAGJ,+B;MAMI,sBAAQ,4BAAR,C;K;IAGJ,+B;MAMI,sBAAQ,4BAAR,C;K;IAGJ,uC;MAQI,a
A8+BgB,gBAAR,iBAAQ,CA9+BhB,OAA2B,CAA3B,M;QACI,QAAQ,MAAO,iBAAQ,IAAI,CAAJ,IAAR,C;QA
Cf,WAAW,sBAAK,CAAL,C;QACX,sBAAK,CAAL,EAAU,sBAAK,CAAL,CAAV,C;QACA,sBAAK,CAAL,EA
AU,IAAV,C;;K;IAIR,uC;MAQI,aAs+BgB,gBAAR,iBAAQ,CAt+BhB,OAA2B,CAA3B,M;QACI,QAAQ,MAAO,i
BAAQ,IAAI,CAAJ,IAAR,C;QACf,WAAW,sBAAK,CAAL,C;QACX,sBAAK,CAAL,EAAU,sBAAK,CAAL,CAA
V,C;QACA,sBAAK,CAAL,EAAU,IAAV,C;;K;IAIR,uC;MAQI,aA89BgB,gBAAR,iBAAQ,CA99BhB,OAA2B,CA
A3B,M;QACI,QAAQ,MAAO,iBAAQ,IAAI,CAAJ,IAAR,C;QACf,WAAW,sBAAK,CAAL,C;QACX,sBAAK,CA
AL,EAAU,sBAAK,CAAL,CAAV,C;QACA,sBAAK,CAAL,EAAU,IAAV,C;;K;IAIR,uC;MAQI,aAs9BgB,gBAAR
,iBAAQ,CAt9BhB,OAA2B,CAA3B,M;QACI,QAAQ,MAAO,iBAAQ,IAAI,CAAJ,IAAR,C;QACf,WAAW,sBAA
K,CAAL,C;QACX,sBAAK,CAAL,EAAU,sBAAK,CAAL,CAAV,C;QACA,sBAAK,CAAL,EAAU,IAAV,C;;K;IA
IR,sC;MAMI,IAAI,iBAAO,CAAX,C;QACI,iB;QApSI,UAAR,iBAAQ,C;Q;IAySZ,sC;MAMI,IAAI,iBAAO,CAAX

,C;QACI,iB;QAtSI,UAAR,iBAAQ,C;Q;IA2SZ,sC;MAMI,IAAI,iBAAO,CAAX,C;QACI,iB;QAxSI,UAAR,iBAAQ
,C;Q;IA6SZ,sC;MAMI,IAAI,iBAAO,CAAX,C;QACI,iB;QA1SI,UAAR,iBAAQ,C;Q;IA+SZ,6B;MAMoB,kBA+nB
T,cAAU,iBvB58EO,QuB48EjB,C;MA/nBiB,mB;MAAxB,OAAiC,SrBv3F1B,WqBu3F0B,C;K;IAGrC,8B;MAMo
B,kBAkoBT,eAAmB,UAAR,iBAAQ,CAAnB,C;MAloBiB,mB;MAAxB,OAAiC,SrBh4F1B,WqBg4F0B,C;K;IAGr
C,8B;MAMoB,kBAqoBT,eAAW,iBvBx/EM,QuBw/EjB,C;MAroBiB,mB;MAAxB,OAAiC,UrBz4F1B,WqBy4F0B
,C;K;IAGrC,8B;MAMoB,kBAwoBT,gBAAY,iBvB1/EK,QuB0/EjB,C;MAxoBiB,mB;MAAxB,OAAiC,UrBl5F1B,
WqBk5F0B,C;K;IAGrC,kC;MAMI,IAAI,mBAAJ,C;QAAe,OAAO,S;MACD,kBA0lBd,cA1lBA,SA0lBU,QvB58E
O,QuB48EjB,C;MA1lBsB,mB;MAA7B,OrB55FO,W;K;IqB+5FX,kC;MAMI,IAAI,mBAAJ,C;QAAe,OAAO,S;M
ACD,kBA4lBd,eAAmB,UA5lBnB,SA4lBW,QAAQ,CAAnB,C;MA5lBsB,mB;MAA7B,OrBt6FO,W;K;IqBy6FX,k
C;MAMI,IAAI,mBAAJ,C;QAAe,OAAO,S;MACD,kBA8lBd,eA9lBA,SA8lBW,QvBx/EM,QuBw/EjB,C;MA9lBsB
,mB;MAA7B,OrBh7FO,W;K;IqBm7FX,mC;MAMI,IAAI,mBAAJ,C;QAAe,OAAO,S;MACD,kBAgmBd,gBAhmB
A,SAgmBY,QvB1/EK,QuB0/EjB,C;MAhmBsB,mB;MAA7B,OrB17FO,W;K;IqB67FX,4C;MAMI,IAAI,mBAAJ,C
;QAAe,OAAO,S;MACD,kBAkjBd,cAljBA,SAkjBU,QvB58EO,QuB48EjB,C;MAljBsB,8B;MAA7B,OrBp8FO,W;
K;IqBu8FX,4C;MAMI,IAAI,mBAAJ,C;QAAe,OAAO,S;MACD,kBAojBd,eAAmB,UApjBnB,SAojBW,QAAQ,C
AAnB,C;MApjBsB,8B;MAA7B,OrB98FO,W;K;IqBi9FX,4C;MAMI,IAAI,mBAAJ,C;QAAe,OAAO,S;MACD,kB
AsjBd,eAtjBA,SAsjBW,QvBx/EM,QuBw/EjB,C;MAtjBsB,8B;MAA7B,OrBx9FO,W;K;IqB29FX,6C;MAMI,IAAI,
mBAAJ,C;QAAe,OAAO,S;MACD,kBAwjBd,gBAxjBA,SAwjBY,QvB1/EK,QuB0/EjB,C;MAxjBsB,8B;MAA7B,
OrBl+FO,W;K;IqBq+FX,uC;MAQoB,kBAygBT,cAAU,iBvB58EO,QuB48EjB,C;MAzgBiB,mB;MAAxB,OAAiC,
YrB7+F1B,WqB6+F0B,C;K;IAGrC,wC;MAQoB,kBA0gBT,eAAmB,UAAR,iBAAQ,CAAnB,C;MA1gBiB,mB;M
AAxB,OAAiC,YrBx/F1B,WqBw/F0B,C;K;IAGrC,wC;MAQoB,kBA2gBT,eAAW,iBvBx/EM,QuBw/EjB,C;MA3g
BiB,mB;MAAxB,OAAiC,YrBngG1B,WqBmgG0B,C;K;IAGrC,wC;MAQoB,kBA4gBT,gBAAY,iBvB1/EK,QuB0/
EjB,C;MA5gBiB,mB;MAAxB,OAAiC,YrB9gG1B,WqB8gG0B,C;K;4FAGrC,qB;MAQI,OAAO,iB;K;0FAGX,qB;
MAQI,OAAO,iB;K;4FA+BX,qB;MAQI,OAAO,iB;K;8FAGX,qB;MAQI,OAAO,iB;K;8FAGX,yB;MAAA,yC;MA
AA,4B;QAQI,OAAO,oBAAW,SAAX,C;O;KARX,C;4FAWA,yB;MAAA,uC;MAAA,4B;QAQI,OAAO,mBAAU,S
AAV,C;O;KARX,C;8FAWA,yB;MAAA,yC;MAAA,4B;QAQI,OAAO,oBAAW,SAAX,C;O;KARX,C;gGAWA,yB
;MAAA,2C;MAAA,4B;QAQI,OAAO,qBAAY,SAAZ,C;O;KARX,C;IAWA,2C;MASI,OAAY,gBAAL,SAAK,EA
Ac,KAAd,C;K;IAGhB,2C;MASI,OAAY,gBAAL,SAAK,EAAc,KAAd,C;K;IAGhB,2C;MASI,OAAY,gBAAL,SA
AK,EAAc,KAAd,C;K;IAGhB,2C;MASI,OAAY,gBAAL,SAAK,EAAc,KAAd,C;K;IAGhB,2C;MAOI,OAAqB,cA
Ad,4CAAc,EAAc,oCAAd,C;K;IAGzB,2C;MAOI,OAAqB,cAAd,4CAAc,EAAc,oCAAd,C;K;IAGzB,2C;MAOI,O
AAqB,cAAd,4CAAc,EAAc,oCAAd,C;K;IAGzB,2C;MAOI,OAAqB,cAAd,4CAAc,EAAc,oCAAd,C;K;IAGzB,sC;
MAQI,OAAY,kBAAL,SAAK,C;K;IAGhB,sC;MAQI,OAAY,kBAAL,SAAK,C;K;IAGhB,sC;MAQI,OAAY,kBAA
L,SAAK,C;K;IAGhB,sC;MAQI,OAAY,kBAAL,SAAK,C;K;IAGhB,sC;MAMI,OAAqB,gBAAd,4CAAc,C;K;IAGz
B,sC;MAMI,OAAqB,gBAAd,4CAAc,C;K;IAGzB,sC;MAMI,OAAqB,gBAAd,4CAAc,C;K;IAGzB,sC;MAMI,OA
AqB,gBAAd,4CAAc,C;K;IAGzB,sC;MAUI,OAAY,kBAAL,SAAK,C;K;IAGhB,sC;MAUI,OAAY,kBAAL,SAAK,
C;K;IAGhB,sC;MAUI,OAAY,kBAAL,SAAK,C;K;IAGhB,sC;MAUI,OAAY,kBAAL,SAAK,C;K;IAGhB,sC;MAQ
W,Q;MAAP,OAAO,sDAAmB,IAAnB,EAAyB,GAAzB,EAA8B,GAA9B,2BAAsC,M;K;IAGjD,sC;MAQW,Q;MA
AP,OAAO,sDAAmB,IAAnB,EAAyB,GAAzB,EAA8B,GAA9B,2BAAsC,M;K;IAGjD,sC;MAQW,Q;MAAP,OAA
O,sDAAmB,IAAnB,EAAyB,GAAzB,EAA8B,GAA9B,2BAAsC,M;K;IAGjD,sC;MAQW,Q;MAAP,OAAO,sDAA
mB,IAAnB,EAAyB,GAAzB,EAA8B,GAA9B,2BAAsC,M;K;sFAGjD,yB;MvBxhFA,8C;MuBwhFA,kF;QAmB6D,
iC;UAAA,oBAAyB,C;QAAG,0B;UAAA,aAAkB,C;QAAG,wB;UAAA,WAAgB,c;QvBvhF1H,UuBwhFA,iBvBxh
FA,EuBwhFiB,WAAY,QvBxhF7B,EuBwhFsC,iBvBxhFtC,EuBwhFyD,UvBxhFzD,EuBwhFqE,QvBxhFrE,C;QuB
yhFA,OAAO,W;O;KArBX,C;wFAwBA,yB;MvBxhFA,8C;MuBwhFA,kF;QAmB+D,iC;UAAA,oBAAyB,C;QAA
G,0B;UAAA,aAAkB,C;QAAG,wB;UAAA,WAAgB,c;QvBvhF5H,UuBwhFA,iBvBxhFA,EuBwhFiB,WAAY,QvB
xhF7B,EuBwhFsC,iBvBxhFtC,EuBwhFyD,UvBxhFzD,EuBwhFqE,QvBxhFrE,C;QuByhFA,OAAO,W;O;KArBX,
C;wFAwBA,yB;MvBxnFA,8C;MuBwnFA,kF;QAmB+D,iC;UAAA,oBAAyB,C;QAAG,0B;UAAA,aAAkB,C;QA
AG,wB;UAAA,WAAgB,c;QvBvnF5H,UuBwnFA,iBvBxnFA,EuBwnFiB,WAAY,QvBxnF7B,EuBwnFsC,iBvBxnF
tC,EuBwnFyD,UvBxnFzD,EuBwnFqE,QvBxnFrE,C;QuBynFA,OAAO,W;O;KArBX,C;wFAwBA,yB;MvBxnFA,8
C;MuBwnFA,kF;QAmBiE,iC;UAAA,oBAAyB,C;QAAG,0B;UAAA,aAAkB,C;QAAG,wB;UAAA,WAAgB,c;QvB

vnF9H,UuBwnFA,iBvBxnFA,EuBwnFiB,WAAY,QvBxnF7B,EuBwnFsC,iBvBxnFtC,EuBwnFyD,UvBxnFzD,EuB
wnFqE,QvBxnFrE,C;QuBynFA,OAAO,W;O;KArBX,C;kFAwBA,yB;MAAA,uC;MAAA,4B;QASI,OAAO,mBAA
U,iBvB58EO,QuB48EjB,C;O;KATX,C;oFAYA,yB;MAAA,gD;MAAA,yC;MAAA,4B;QASI,OAAO,oBAAmB,O
AAR,iBAAQ,CAAnB,C;O;KATX,C;oFAYA,yB;MAAA,yC;MAAA,4B;QASI,OAAO,oBAAW,iBvBx/EM,QuBw/
EjB,C;O;KATX,C;oFAYA,yB;MAAA,2C;MAAA,4B;QASI,OAAO,qBAAY,iBvB1/EK,QuB0/EjB,C;O;KATX,C;
oFAYA,yB;MAAA,gD;MAAA,uC;MAAA,qC;QAWI,OAAO,mBAAkB,OAAR,iBAAQ,EAAO,OAAP,CAAlB,C;
O;KAXX,C;oFAcA,yB;MAAA,gD;MAAA,yC;MAAA,qC;QAWI,OAAO,oBAAmB,OAAR,iBAAQ,EAAO,OAAP
,CAAnB,C;O;KAXX,C;oFAcA,yB;MAAA,+C;MAAA,yC;MAAA,qC;QAWI,OAAO,oBAAmB,OAAR,iBAAQ,E
AAO,OAAP,CAAnB,C;O;KAXX,C;oFAcA,yB;MAAA,gD;MAAA,2C;MAAA,qC;QAWI,OAAO,qBAAoB,OAA
R,iBAAQ,EAAO,OAAP,CAApB,C;O;KAXX,C;4FAcA,yB;MAAA,0D;MAAA,uC;MAAA,gD;QAaI,OAAO,mBA
AkB,YAAR,iBAAQ,EAAY,SAAZ,EAAuB,OAAvB,CAAlB,C;O;KAbX,C;8FAgBA,yB;MAAA,0D;MAAA,yC;M
AAA,gD;QAaI,OAAO,oBAAmB,YAAR,iBAAQ,EAAY,SAAZ,EAAuB,OAAvB,CAAnB,C;O;KAbX,C;8FAgBA,
yB;MAAA,0D;MAAA,yC;MAAA,gD;QAaI,OAAO,oBAAmB,YAAR,iBAAQ,EAAY,SAAZ,EAAuB,OAAvB,CA
AnB,C;O;KAbX,C;6FAgBA,yB;MAAA,0D;MAAA,2C;MAAA,gD;QAaI,OAAO,qBAAoB,YAAR,iBAAQ,EAAY,
SAAZ,EAAuB,OAAvB,CAApB,C;O;KAbX,C;IAgBA,sD;MAWyC,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAA
e,c;MAChE,OAAR,iBAAQ,EAAK,OnCv8GoB,KmCu8GzB,EAAsB,SAAtB,EAAiC,OAAjC,C;K;IAGZ,wD;MA
W2C,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,c;MAClE,OAAR,iBAAQ,EAAK,OnB38GsB,KmB28G3B,E
AAuB,SAAvB,EAAkC,OAAlC,C;K;IAGZ,wD;MAW2C,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,c;MACl
E,OAAR,iBAAQ,EAAK,OpC7gHsB,KoC6gH3B,EAAuB,SAAvB,EAAkC,OAAlC,C;K;IAGZ,wD;MAW6C,yB;Q
AAA,YAAiB,C;MAAG,uB;QAAA,UAAe,c;MACpE,OAAR,iBAAQ,EAAK,OlCjhHwB,KkCihH7B,EAAwB,SAA
xB,EAAmC,OAAnC,C;K;8FASR,yB;MAAA,0D;MAAA,4B;QAAQ,OAAQ,YAAR,iBAAQ,C;O;KAAhB,C;8FAQ
A,yB;MAAA,0D;MAAA,4B;QAAQ,OAAQ,YAAR,iBAAQ,C;O;KAAhB,C;+FAQA,yB;MAAA,0D;MAAA,4B;Q
AAQ,OAAQ,YAAR,iBAAQ,C;O;KAAhB,C;+FAQA,yB;MAAA,0D;MAAA,4B;QAAQ,OAAQ,YAAR,iBAAQ,C;
O;KAAhB,C;kGAQA,yB;MAAA,8D;MAAA,4B;QAAQ,OAAQ,cAAR,iBAAQ,C;O;KAAhB,C;kGAQA,yB;MAA
A,8D;MAAA,4B;QAAQ,OAAQ,cAAR,iBAAQ,C;O;KAAhB,C;mGAQA,yB;MAAA,8D;MAAA,4B;QAAQ,OAA
Q,cAAR,iBAAQ,C;O;KAAhB,C;mGAQA,yB;MAAA,8D;MAAA,4B;QAAQ,OAAQ,cAAR,iBAAQ,C;O;KAAhB,
C;iFAEJ,yB;MAAA,uC;MvBvoEA,iD;MuBuoEA,qC;QAOqB,4B;QAAA,gBAAU,OnC9jHM,K;QmC8jHjC,OAA
O,mBvBzoEA,2BAxIK,gBAAW,SAAX,EAwIL,CuByoEA,C;O;KAPX,C;iFAUA,yB;MAAA,yC;MvBzoEA,iD;M
uByoEA,qC;QAOI,OAAO,oBvB3oEA,qBuB2oEW,iBvB3oEX,EAxIK,mBuBmxEgB,OnB7jHO,KJ0yCvB,CAwIL,
CuB2oEA,C;O;KAPX,C;iFAUA,yB;MAAA,yC;MvB3qEA,iD;MuB2qEA,qC;QAOsB,4B;QAAA,gBAAU,OpC1n
HO,K;QoC0nHnC,OAAO,oBvB7qEA,2BAxIK,eAAY,SAAZ,EAwIL,CuB6qEA,C;O;KAPX,C;iFAUA,yB;MAAA,
2C;MvB7qEA,iD;MuB6qEA,qC;QAOuB,4B;QAAA,gBAAU,OlCznHQ,K;QkCynHrC,OAAO,qBvB/qEA,2BAxIK
,gBAAa,SAAb,EAwIL,CuB+qEA,C;O;KAPX,C;IAUA,sC;MAQoB,UAAiB,M;MAFjC,YAAY,c;MACZ,aAAqB,U
AAR,iBAAQ,EAAO,iBAAO,QAAS,KAAhB,IAAP,C;MACL,0B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAU,
OAAO,cAAP,EAAO,sBAAP,YAAkB,OnCvmHX,K;;MmCwmHjC,OAAO,cAAU,MAAV,C;K;IAGX,sC;MAQoB,
UAAiB,M;MAFjC,YAAY,c;MACZ,aAAqB,UAAR,iBAAQ,EAAO,iBAAO,QAAS,KAAhB,IAAP,C;MACL,0B;M
AAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAU,OAAO,cAAP,EAAO,sBAAP,YAAkB,OnBxmHT,K;;MmBymHnC,
OAAO,eAAW,MAAX,C;K;IAGX,sC;MAQoB,UAAiB,M;MAFjC,YAAY,c;MACZ,aAAqB,UAAR,iBAAQ,EAAO
,iBAAO,QAAS,KAAhB,IAAP,C;MACL,0B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAU,OAAO,cAAP,EAAO
,sBAAP,YAAkB,OpCvqHT,K;;MoCwqHnC,OAAO,eAAW,MAAX,C;K;IAGX,sC;MAQoB,UAAiB,M;MAFjC,Y
AAY,c;MACZ,aAAqB,UAAR,iBAAQ,EAAO,iBAAO,QAAS,KAAhB,IAAP,C;MACL,0B;MAAhB,OAAgB,cAA
hB,C;QAAgB,yB;QAAU,OAAO,cAAP,EAAO,sBAAP,YAAkB,OlCxqHP,K;;MkCyqHrC,OAAO,gBAAY,MAAZ,
C;K;iFAGX,yB;MAAA,uC;MvB/tEA,iD;MuB+tEA,sC;QAOI,OAAO,mBvBjuEA,qBuBiuEU,iBvBjuEV,EuBiuEo
B,QAAS,QvBjuE7B,CuBiuEA,C;O;KAPX,C;iFAUA,yB;MAAA,yC;MvBjuEA,iD;MuBiuEA,sC;QAOI,OAAO,oB
vBnuEA,qBuBmuEW,iBvBnuEX,EuBmuEqB,QAAS,QvBnuE9B,CuBmuEA,C;O;KAPX,C;iFAUA,yB;MAAA,yC
;MvBnwEA,iD;MuBmwEA,sC;QAOI,OAAO,oBvBrwEA,qBuBqwEW,iBvBrwEX,EuBqwEqB,QAAS,QvBrwE9B
,CuBqwEA,C;O;KAPX,C;iFAUA,yB;MAAA,2C;MvBrwEA,iD;MuBqwEA,sC;QAOI,OAAO,qBvBvwEA,qBuBu
wEY,iBvBvwEZ,EuBuwEsB,QAAS,QvBvwE/B,CuBuwEA,C;O;KAPX,C;IAUA,2B;MAQI,IAAI,iBAAO,CAAX,

C;QAAc,YAAU,SAAV,EAAgB,CAAhB,EAAmB,cAAnB,C;K;IAGlB,2B;MAQI,IAAI,iBAAO,CAAX,C;QAAc,Y
AAU,SAAV,EAAgB,CAAhB,EAAmB,cAAnB,C;K;IAGlB,2B;MAQI,IAAI,iBAAO,CAAX,C;QAAc,YAAU,SAA
V,EAAgB,CAAhB,EAAmB,cAAnB,C;K;IAGlB,2B;MAQI,IAAI,iBAAO,CAAX,C;QAAc,YAAU,SAAV,EAAgB,
CAAhB,EAAmB,cAAnB,C;K;IAGlB,+C;MAa0B,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,c;MACzD,oCA
Aa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,cAAtC,C;MACb,YAAU,SAAV,EAAgB,SAAhB,EAA2B,OAA3B,
C;K;IAGJ,+C;MAa2B,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,c;MAC1D,oCAAa,2BAAkB,SAAlB,EAA6
B,OAA7B,EAAsC,cAAtC,C;MACb,YAAU,SAAV,EAAgB,SAAhB,EAA2B,OAA3B,C;K;IAGJ,+C;MAa2B,yB;Q
AAA,YAAiB,C;MAAG,uB;QAAA,UAAe,c;MAC1D,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,cAAtC,C
;MACb,YAAU,SAAV,EAAgB,SAAhB,EAA2B,OAA3B,C;K;IAGJ,+C;MAa4B,yB;QAAA,YAAiB,C;MAAG,uB;
QAAA,UAAe,c;MAC3D,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,cAAtC,C;MACb,YAAU,SAAV,EAA
gB,SAAhB,EAA2B,OAA3B,C;K;IAGJ,0D;MAaI,kBAAK,SAAL,EAAgB,OAAhB,C;MAh8CQ,WAAR,iBAAQ,E
Ai8CA,SAj8CA,EAi8CW,OAj8CX,C;K;IAo8CZ,0D;MAaI,kBAAK,SAAL,EAAgB,OAAhB,C;MAj8CQ,WAAR,i
BAAQ,EAk8CA,SAl8CA,EAk8CW,OAl8CX,C;K;IAq8CZ,0D;MAaI,kBAAK,SAAL,EAAgB,OAAhB,C;MAl8CQ
,UAAR,iBAAQ,EAm8CA,SAn8CA,EAm8CW,OAn8CX,C;K;IAs8CZ,0D;MAaI,kBAAK,SAAL,EAAgB,OAAhB,
C;MAn8CQ,WAAR,iBAAQ,EAo8CA,SAp8CA,EAo8CW,OAp8CX,C;K;8FAu8CZ,qB;MAQI,OAAO,iBvB3jGiB,
Q;K;4FuB8jG5B,qB;MAQI,OAAO,iBvBljGiB,Q;K;8FuBqjG5B,yB;MAAA,gD;MAAA,4B;QAQI,OAAe,OAAR,i
BAAQ,C;O;KARnB,C;gGAWA,qB;MAQI,OAAO,iBvBllGiB,Q;K;IuB2lGL,gD;MAAA,wB;QAAW,qCAAK,KA
AL,C;O;K;IANlC,iC;MAMI,OAAO,iBAAM,cAAN,EAAY,8BAAZ,C;K;IASY,kD;MAAA,wB;QAAW,qCAAK,K
AAL,C;O;K;IANlC,mC;MAMI,OAAO,iBAAM,cAAN,EAAY,gCAAZ,C;K;IASY,kD;MAAA,wB;QAAW,qCAAK
,KAAL,C;O;K;IANlC,mC;MAMI,OAAO,iBAAM,cAAN,EAAY,gCAAZ,C;K;IASY,kD;MAAA,wB;QAAW,qCA
AK,KAAL,C;O;K;IANlC,mC;MAMI,OAAO,iBAAM,cAAN,EAAY,gCAAZ,C;K;IASiB,gD;MAAA,wB;QAAW,y
BAAK,KAAL,C;O;K;IANvC,iC;MAMI,OJnqIO,eAAW,+BImqIA,gBJnqIA,GAAgB,kBImqIV,8BJnqIU,CAAhB,C
AAX,C;K;gGIsqIX,yB;MAAA,yC;MAAA,4B;QAQI,OAAO,oBAAW,SvBppGM,QuBopGjB,C;O;KARX,C;IAiB2
B,8C;MAAA,wB;QAAW,wBAAK,KAAL,C;O;K;IANtC,gC;MAMI,OHvrIO,cAAU,gCGurIA,gBHvrIA,GAAe,iB
GurIT,6BHvrIS,CAAf,CAAV,C;K;8FG0rIX,yB;MAAA,uC;MAAA,4B;QAQI,OAAO,mBAAU,SvBppGO,QuBop
GjB,C;O;KARX,C;IAiB4B,gD;MAAA,wB;QAAW,yBAAK,KAAL,C;O;K;IANvC,iC;MAMI,OF3sIO,eAAW,kBE
2sIA,gBF3sIA,EAAgB,kBE2sIV,8BF3sIU,CAAhB,CAAX,C;K;gGE8sIX,yB;MAAA,gD;MAAA,yC;MAAA,4B;Q
AQI,OAAO,oBAAgB,OAAL,SAAK,CAAhB,C;O;KARX,C;IAiB6B,kD;MAAA,wB;QAAW,0BAAK,KAAL,C;O;
K;IANxC,kC;MAMI,OD/tIO,gBAAY,gCC+tIA,gBD/tIA,GAAiB,mBC+tIX,+BD/tIW,CAAjB,CAAZ,C;K;kGCkuI
X,yB;MAAA,2C;MAAA,4B;QAQI,OAAO,qBAAY,SvBtsGK,QuBssGjB,C;O;KARX,C;mGAWA,yB;MAAA,0D;
MAAA,yD;MAAA,uE;MAAA,2C;QAcI,aAAa,mBAAyC,cAAlB,YAAY,cAAZ,CAAkB,EAAc,EAAd,CAAzC,C;Q
AsEG,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UArEO,MAsEP,aAAI,OAAJ,EAtEe,aAsEF,CAAc,O
AAd,CAAb,C;;QAtEhB,OAAuB,M;O;KAf3B,C;mGAkBA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,2C;QAc
I,aAAa,mBAA0C,cAAlB,YAAY,cAAZ,CAAkB,EAAc,EAAd,CAA1C,C;QAsEG,Q;QAAA,2B;QAAhB,OAAgB,c
AAhB,C;UAAgB,yB;UArEO,MAsEP,aAAI,OAAJ,EAtEe,aAsEF,CAAc,OAAd,CAAb,C;;QAtEhB,OAAuB,M;O;
KAf3B,C;kGAkBA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,2C;QAcI,aAAa,mBAA0C,cAAlB,YAAY,cAA
Z,CAAkB,EAAc,EAAd,CAA1C,C;QAsEG,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UArEO,MAsEP,
aAAI,OAAJ,EAtEe,aAsEF,CAAc,OAAd,CAAb,C;;QAtEhB,OAAuB,M;O;KAf3B,C;mGAkBA,yB;MAAA,0D;M
AAA,yD;MAAA,uE;MAAA,2C;QAcI,aAAa,mBAA2C,cAAlB,YAAY,cAAZ,CAAkB,EAAc,EAAd,CAA3C,C;QA
sEG,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UArEO,MAsEP,aAAI,OAAJ,EAtEe,aAsEF,CAAc,OA
Ad,CAAb,C;;QAtEhB,OAAuB,M;O;KAf3B,C;uGAkBA,iD;MAYoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;Q
AAgB,yB;QACZ,WAAY,aAAI,OAAJ,EAAa,cAAc,OAAd,CAAb,C;;MAEhB,OAAO,W;K;uGAGX,iD;MAYoB,Q
;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,WAAY,aAAI,OAAJ,EAAa,cAAc,OAAd,CAAb,C;;M
AEhB,OAAO,W;K;uGAGX,iD;MAYoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,WAAY,aA
AI,OAAJ,EAAa,cAAc,OAAd,CAAb,C;;MAEhB,OAAO,W;K;uGAGX,iD;MAYoB,Q;MAAA,2B;MAAhB,OAAg
B,cAAhB,C;QAAgB,yB;QACZ,WAAY,aAAI,OAAJ,EAAa,cAAc,OAAd,CAAb,C;;MAEhB,OAAO,W;K;uFAGX,
yB;MAAA,+D;MAoLA,gD;MApLA,uC;QASW,kBAAU,gB;QAkLD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;U
AAgB,yB;UACZ,WAnL6B,SAmLlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QApLhB,OAsLO,

W;O;KA/LX,C;uFAYA,yB;MAAA,+D;MAsLA,gD;MAtLA,uC;QASW,kBAAU,gB;QAoLD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WArL6B,SAqLlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAtLhB,OAwLO,W;O;KAjMX,C;uFAYA,yB;MAAA,+D;MAwLA,gD;MAxLA,uC;QASW,kBAAU,gB;QAsLD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAvL6B,SAuLlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAxLhB,OA0LO,W;O;KAnMX,C;uFAYA,yB;MAAA,+D;MA0LA,gD;MA1LA,uC;QASW,kBAAU,gB;QAwLD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAzL6B,SAyLlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA1LhB,OA4LO,W;O;KArMX,C;uFAYA,yB;MAAA,+D;MA4LA,gD;MA5LA,uC;QASW,kBAAU,gB;QA0LD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA3L6B,SA2LlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA5LhB,OA8LO,W;O;KAvMX,C;uFAYA,yB;MAAA,+D;MA8LA,gD;MA9LA,uC;QASW,kBAAU,gB;QA4LD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA7L6B,SA6LlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA9LhB,OAgMO,W;O;KAzMX,C;uFAYA,yB;MAAA,+D;MAgMA,gD;MAhMA,uC;QASW,kBAAU,gB;QA8LD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA/L6B,SA+LlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAhMhB,OAkMO,W;O;KA3MX,C;uFAYA,yB;MAAA,+D;MAkMA,gD;MAlMA,uC;QASW,kBAAU,gB;QAgMD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAjM6B,SAiMlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAlMhB,OAoMO,W;O;KA7MX,C;uFAYA,yB;MAAA,+D;MAoMA,gD;MApMA,uC;QASW,kBAAU,gB;QAkMD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAnM6B,SAmMlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QApMhB,OAsMO,W;O;KA/MX,C;uFAYA,yB;MAAA,+D;MAsMA,gD;MAtMA,uC;QASW,kBAAU,gB;QAoMD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WArM6B,SAqMlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAtMhB,OAwMO,W;O;KAjNX,C;uFAYA,yB;MAAA,+D;MAwMA,gD;MAxMA,uC;QASW,kBAAU,gB;QAsMD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAvM6B,SAuMlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAxMhB,OA0MO,W;O;KAnNX,C;uFAYA,yB;MAAA,+D;MA0MA,gD;MA1MA,uC;QASW,kBAAU,gB;QAwMD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAzM6B,SAyMlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA1MhB,OA4MO,W;O;KArNX,C;uFAYA,yB;MAAA,+D;MA4MA,gD;MA5MA,uC;QASW,kBAAU,gB;QA0MD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA3M6B,SA2MlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA5MhB,OA8MO,W;O;KAvNX,C;uFAYA,yB;MAAA,+D;MA8MA,gD;MA9MA,uC;QASW,kBAAU,gB;QA4MD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA7M6B,SA6MlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA9MhB,OAgNO,W;O;KAzNX,C;uFAYA,yB;MAAA,+D;MAgNA,gD;MAhNA,uC;QASW,kBAAU,gB;QA8MD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA/M6B,SA+MlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAhNhB,OAkNO,W;O;KA3NX,C;uFAYA,yB;MAAA,+D;MAkNA,gD;MAlNA,uC;QASW,kBAAU,gB;QAgND,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAjN6B,SAiNlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAlNhB,OAoNO,W;O;KA7NX,C;uFAYA,yB;MAAA,+D;MAoNA,gD;MApNA,uC;QASW,kBAAU,gB;QAkND,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAnN6B,SAmNlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QApNhB,OAsNO,W;O;KA/NX,C;uFAYA,yB;MAAA,+D;MAsNA,gD;MAtNA,uC;QASW,kBAAU,gB;QAoND,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WArN6B,SAqNlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAtNhB,OAwNO,W;O;KAjOX,C;uFAYA,yB;MAAA,+D;MAwNA,gD;MAxNA,uC;QASW,kBAAU,gB;QAsND,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAvN6B,SAuNlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAxNhB,OA0NO,W;O;KAnOX,C;uFAYA,yB;MAAA,+D;MA0NA,gD;MA1NA,uC;QASW,kBAAU,gB;QAwND,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAzN6B,SAyNlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA1NhB,OA4NO,W;O;KArOX,C;uFAYA,yB;MAAA,+D;MA4NA,gD;MA5NA,uC;QASW,kBAAU,gB;QA0ND,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA3N6B,SA2NlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA5NhB,OA8NO,W;O;KAvOX,C;uFAYA,yB;MAAA,+D;MA8NA,gD;MA9NA,uC;QASW,kBAAU,gB;QA4ND,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA7N6B,SA6NlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA9NhB,OAgOO,W;O;KAzOX,C;uFAYA,yB;MAAA,+D;MAgOA,gD;MAhOA,uC;QASW,kBAAU,gB;QA8ND,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA/N6B,SA+NlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAhOhB,OAkOO,W;O;KA3OX,C;uFAYA,yB;MAAA,+D;MAkOA,gD;MAlOA,uC;QASW,kBAAU,gB;QAgOD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAjO6B,SAiOlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAlOhB,OAoOO,W;O;KA7OX,C;uFAYA,yB;MAAA,+D;MAoOA,gD;MApOA,uC;QASW,kBAAU,gB;QAkOD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAnO6B,SAmOlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QApOhB,OAsOO,W;O;KA/OX,C;uFAYA,yB;MAAA,+D;MAsOA,gD;MAtOA,uC;QASW,kBAAU,gB;QAoOD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WArO6B,SAqOlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAtOhB,OAwOO,W;O;KAjPX,C;uFAYA,yB;MAAA,+D;MAwOA,gD;MAxOA,uC;QASW,kBAAU,gB;QAsOD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAvO6B,SAuOlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAxOhB,OA0OO,W;O;KAnPX,C;uFAYA,yB;MAAA,+D;MA0OA,gD;MA1OA,uC;QASW,kBAAU,gB;QAwOD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAzO6B,SAyOlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA1OhB,OA4OO,W;O;KArPX,C;uFAYA,yB;MAAA,+D;MA4OA,gD;MA5OA,uC;QASW,kBAAU,gB;QA0OD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA3O6B,SA2OlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA5OhB,OA8OO,W;O;KAvPX,C;uFAYA,yB;MAAA,+D;MA8OA,gD;MA9OA,uC;QASW,kBAAU,gB;QA4OD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA7O6B,SA6OlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA9OhB,OAgPO,W;O;KAzPX,C;uFAYA,yB;MAAA,+D;MAgPA,gD;MAhPA,uC;QASW,kBAAU,gB;QA8OD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA/O6B,SA+OlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAhPhB,OAkPO,W;O;KA3PX,C;uFAYA,yB;MAAA,+D;MAkPA,gD;MAlPA,uC;QASW,kBAAU,gB;QAgPD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAjP6B,SAiPlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAlPhB,OAoPO,W;O;KA7PX,C;uFAYA,yB;MAAA,+D;MAoPA,gD;MApPA,uC;QASW,kBAAU,gB;QAkPD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAnP6B,SAmPlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QApPhB,OAsPO,W;O;KA/PX,C;uFAYA,yB;MAAA,+D;MAsPA,gD;MAtPA,uC;QASW,kBAAU,gB;QAoPD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WArP6B,SAqPlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAtPhB,OAwPO,W;O;KAjQX,C;uFAYA,yB;MAAA,+D;MAwPA,gD;MAxPA,uC;QASW,kBAAU,gB;QAsPD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAvP6B,SAuPlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAxPhB,OA0PO,W;O;KAnQX,C;uFAYA,yB;MAAA,+D;MA0PA,gD;MA1PA,uC;QASW,kBAAU,gB;QAwPD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAzP6B,SAyPlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA1PhB,OA4PO,W;O;KArQX,C;uFAYA,yB;MAAA,+D;MA4PA,gD;MA5PA,uC;QASW,kBAAU,gB;QA0PD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA3P6B,SA2PlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA5PhB,OA8PO,W;O;KAvQX,C;uFAYA,yB;MAAA,+D;MA8PA,gD;MA9PA,uC;QASW,kBAAU,gB;QA4PD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA7P6B,SA6PlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA9PhB,OAgQO,W;O;KAzQX,C;uFAYA,yB;MAAA,+D;MAgQA,gD;MAhQA,uC;QASW,kBAAU,gB;QA8PD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA/P6B,SA+PlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAhQhB,OAkQO,W;O;KA3QX,C;uFAYA,yB;MAAA,+D;MAkQA,gD;MAlQA,uC;QASW,kBAAU,gB;QAgQD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAjQ6B,SAiQlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAlQhB,OAoQO,W;O;KA7QX,C;uFAYA,yB;MAAA,+D;MAoQA,gD;MApQA,uC;QASW,kBAAU,gB;QAkQD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAnQ6B,SAmQlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QApQhB,OAsQO,W;O;KA/QX,C;uFAYA,yB;MAAA,+D;MAsQA,gD;MAtQA,uC;QASW,kBAAU,gB;QAoQD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WArQ6B,SAqQlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAtQhB,OAwQO,W;O;KAjRX,C;uFAYA,yB;MAAA,+D;MAwQA,gD;MAxQA,uC;QASW,kBAAU,gB;QAsQD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAvQ6B,SAuQlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAxQhB,OA0QO,W;O;KAnRX,C;uFAYA,yB;MAAA,+D;MA0QA,gD;MA1QA,uC;QASW,kBAAU,gB;QAwQD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAzQ6B,SAyQlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA1QhB,OA4QO,W;O;KArRX,C;uFAYA,yB;MAAA,+D;MA4QA,gD;MA5QA,uC;QASW,kBAAU,gB;QA0QD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA3Q6B,SA2QlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA5QhB,OA8QO,W;O;KAvRX,C;uFAYA,yB;MAAA,+D;MA8QA,gD;MA9QA,uC;QASW,kBAAU,gB;QA4QD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA7Q6B,SA6QlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA9QhB,OAgRO,W;O;KAzRX,C;uFAYA,yB;MAAA,+D;MAgRA,gD;MAhRA,uC;QASW,kBAAU,gB;QA8QD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA/Q6B,SA+QlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAhRhB,OAkRO,W;O;KA3RX,C;uFAYA,yB;MAAA,+D;MAkRA,gD;MAlRA,uC;QASW,kBAAU,gB;QAgRD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAjR6B,SAiRlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAlRhB,OAoRO,W;O;KA7RX,C;uFAYA,yB;MAAA,+D;MAoRA,gD;MApRA,uC;QASW,kBAAU,gB;QAkRD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAnR6B,SAmRlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QApRhB,OAsRO,W;O;KA/RX,C;uFAYA,yB;MAAA,+D;MAsRA,gD;MAtRA,uC;QASW,kBAAU,gB;QAoRD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WArR6B,SAqRlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAtRhB,OAwRO,W;O;KAjSX,C;uFAYA,yB;MAAA,+D;MAwRA,gD;MAxRA,uC;QASW,kBAAU,gB;QAsRD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAvR6B,SAuRlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAxRhB,OA0RO,W;O;KAnSX,C;uFAYA,yB;MAAA,+D;MA0RA,gD;MA1RA,uC;QASW,kBAAU,gB;QAwRD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAzR6B,SAyRlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA1RhB,OA4RO,W;O;KArSX,C;uFAYA,yB;MAAA,+D;MA4RA,gD;MA5RA,uC;QASW,kBAAU,gB;QA0RD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA3R6B,SA2RlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA5RhB,OA8RO,W;O;KAvSX,C;uFAYA,yB;MAAA,+D;MA8RA,gD;MA9RA,uC;QASW,kBAAU,gB;QA4RD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA7R6B,SA6RlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA9RhB,OAgSO,W;O;KAzSX,C;uFAYA,yB;MAAA,+D;MAgSA,gD;MAhSA,uC;QASW,kBAAU,gB;QA8RD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA/R6B,SA+RlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAhShB,OAkSO,W;O;KA3SX,C;uFAYA,yB;MAAA,+D;MAkSA,gD;MAlSA,uC;QASW,kBAAU,gB;QAgSD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAjS6B,SAiSlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAlShB,OAoSO,W;O;KA7SX,C;uFAYA,yB;MAAA,+D;MAoSA,gD;MApSA,uC;QASW,kBAAU,gB;QAkSD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAnS6B,SAmSlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QApShB,OAsSO,W;O;KA/SX,C;uFAYA,yB;MAAA,+D;MAsSA,gD;MAtSA,uC;QASW,kBAAU,gB;QAoSD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WArS6B,SAqSlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAtShB,OAwSO,W;O;KAjTX,C;uFAYA,yB;MAAA,+D;MAwSA,gD;MAxSA,uC;QASW,kBAAU,gB;QAsSD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAvS6B,SAuSlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAxShB,OA0SO,W;O;KAnTX,C;uFAYA,yB;MAAA,+D;MA0SA,gD;MA1SA,uC;QASW,kBAAU,gB;QAwSD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAzS6B,SAySlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA1ShB,OA4SO,W;O;KArTX,C;uFAYA,yB;MAAA,+D;MA4SA,gD;MA5SA,uC;QASW,kBAAU,gB;QA0SD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA3S6B,SA2SlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA5ShB,OA8SO,W;O;KAvTX,C;uFAYA,yB;MAAA,+D;MA8SA,gD;MA9SA,uC;QASW,kBAAU,gB;QA4SD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA7S6B,SA6SlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA9ShB,OAgTO,W;O;KAzTX,C;uFAYA,yB;MAAA,+D;MAgTA,gD;MAhTA,uC;QASW,kBAAU,gB;QA8SD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA/S6B,SA+SlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAhThB,OAkTO,W;O;KA3TX,C;uFAYA,yB;MAAA,+D;MAkTA,gD;MAlTA,uC;QASW,kBAAU,gB;QAgTD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAjT6B,SAiTlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAlThB,OAoTO,W;O;KA7TX,C;uFAYA,yB;MAAA,+D;MAoTA,gD;MApTA,uC;QASW,kBAAU,gB;QAkTD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAnT6B,SAmTlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QApThB,OAsTO,W;O;KA/TX,C;uFAYA,yB;MAAA,+D;MAsTA,gD;MAtTA,uC;QASW,kBAAU,gB;QAoTD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WArT6B,SAqTlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAtThB,OAwTO,W;O;KAjUX,C;uFAYA,yB;MAAA,+D;MAwTA,gD;MAxTA,uC;QASW,kBAAU,gB;QAsTD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAvT6B,SAuTlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAxThB,OA0TO,W;O;KAnUX,C;uFAYA,yB;MAAA,+D;MA0TA,gD;MA1TA,uC;QASW,kBAAU,gB;QAwTD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAzT6B,SAyTlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA1ThB,OA4TO,W;O;KArUX,C;uFAYA,yB;MAAA,+D;MA4TA,gD;MA5TA,uC;QASW,kBAAU,gB;QA0TD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA3T6B,SA2TlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA5ThB,OA8TO,W;O;KAvUX,C;uFAYA,yB;MAAA,+D;MA8TA,gD;MA9TA,uC;QASW,kBAAU,gB;QA4TD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA7T6B,SA6TlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA9ThB,OAgUO,W;O;KAzUX,C;uFAYA,yB;MAAA,+D;MAgUA,gD;MAhUA,uC;QASW,kBAAU,gB;QA8TD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA/T6B,SA+TlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAhUhB,OAkUO,W;O;KA3UX,C;uFAYA,yB;MAAA,+D;MAkUA,gD;MAlUA,uC;QASW,kBAAU,gB;QAgUD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAjU6B,SAiUlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAlUhB,OAoUO,W;O;KA7UX,C;uFAYA,yB;MAAA,+D;MAoUA,gD;MApUA,uC;QASW,kBAAU,gB;QAkUD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAnU6B,SAmUlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QApUhB,OAsUO,W;O;KA/UX,C;uFAYA,yB;MAAA,+D;MAsUA,gD;MAtUA,uC;QASW,kBAAU,gB;QAoUD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WArU6B,SAqUlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAtUhB,OAwUO,W;O;KAjVX,C;uFAYA,yB;MAAA,+D;MAwUA,gD;MAxUA,uC;QASW,kBAAU,gB;QAsUD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAvU6B,SAuUlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAxUhB,OA0UO,W;O;KAnVX,C;uFAYA,yB;MAAA,+D;MA0UA,gD;MA1UA,uC;QASW,kBAAU,gB;QAwUD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAzU6B,SAyUlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA1UhB,OA4UO,W;O;KArVX,C;uFAYA,yB;MAAA,+D;MA4UA,gD;MA5UA,uC;QASW,kBAAU,gB;QA0UD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA3U6B,SA2UlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA5UhB,OA8UO,W;O;KAvVX,C;uFAYA,yB;MAAA,+D;MA8UA,gD;MA9UA,uC;QASW,kBAAU,gB;QA4UD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA7U6B,SA6UlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA9UhB,OAgVO,W;O;KAzVX,C;uFAYA,yB;MAAA,+D;MAgVA,gD;MAhVA,uC;QASW,kBAAU,gB;QA8UD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA/U6B,SA+UlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAhVhB,OAkVO,W;O;KA3VX,C;uFAYA,yB;MAAA,+D;MAkVA,gD;MAlVA,uC;QASW,kBAAU,gB;QAgVD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAjV6B,SAiVlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAlVhB,OAoVO,W;O;KA7VX,C;uFAYA,yB;MAAA,+D;MAoVA,gD;MApVA,uC;QASW,kBAAU,gB;QAkVD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAnV6B,SAmVlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QApVhB,OAsVO,W;O;KA/VX,C;uFAYA,yB;MAAA,+D;MAsVA,gD;MAtVA,uC;QASW,kBAAU,gB;QAoVD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WArV6B,SAqVlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAtVhB,OAwVO,W;O;KAjWX,C;uFAYA,yB;MAAA,+D;MAwVA,gD;MAxVA,uC;QASW,kBAAU,gB;QAsVD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAvV6B,SAuVlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAxVhB,OA0VO,W;O;KAnWX,C;uFAYA,yB;MAAA,+D;MA0VA,gD;MA1VA,uC;QASW,kBAAU,gB;QAwVD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAzV6B,SAyVlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA1VhB,OA4VO,W;O;KArWX,C;uFAYA,yB;MAAA,+D;MA4VA,gD;MA5VA,uC;QASW,kBAAU,gB;QA0VD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA3V6B,SA2VlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA5VhB,OA8VO,W;O;KAvWX,C;uFAYA,yB;MAAA,+D;MA8VA,gD;MA9VA,uC;QASW,kBAAU,gB;QA4VD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA7V6B,SA6VlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA9VhB,OAgWO,W;O;KAzWX,C;uFAYA,yB;MAAA,+D;MAgWA,gD;MAhWA,uC;QASW,kBAAU,gB;QA8VD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA/V6B,SA+VlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAhWhB,OAkWO,W;O;KA3WX,C;uFAYA,yB;MAAA,+D;MAkWA,gD;MAlWA,uC;QASW,kBAAU,gB;QAgWD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAjW6B,SAiWlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAlWhB,OAoWO,W;O;KA7WX,C;uFAYA,yB;MAAA,+D;MAoWA,gD;MApWA,uC;QASW,kBAAU,gB;QAkWD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAnW6B,SAmWlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QApWhB,OAsWO,W;O;KA/WX,C;uFAYA,yB;MAAA,+D;MAsWA,gD;MAtWA,uC;QASW,kBAAU,gB;QAoWD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WArW6B,SAqWlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAtWhB,OAwWO,W;O;KAjXX,C;uFAYA,yB;MAAA,+D;MAwWA,gD;MAxWA,uC;QASW,kBAAU,gB;QAsWD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAvW6B,SAuWlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAxWhB,OA0WO,W;O;KAnXX,C;uFAYA,yB;

,G/BvhJhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;U+BohJA,iB;UACA,IAAK,WAAI,OAAJ,C;;QA9IT,OAgJO,W;O
;KA5JX,C;uFAeA,yB;MAAA,wE;MAgJA,+D;MAhJA,yD;QAaW,kBAAU,oB;QAgJD,Q;QAAA,2B;QAAhB,OA
AgB,cAAhB,C;UAAgB,yB;UACZ,UAjJiD,WAiJvC,CAAY,OAAZ,C;U/B7iJP,U;UADP,Y+B+iJe,W/B/iJH,W+B+
iJwB,G/B/iJxB,C;UACL,IAAI,aAAJ,C;YACH,a+B6iJuC,gB;YAA5B,W/B5iJX,a+B4iJgC,G/B5iJhC,EAAS,MAAT
,C;YACA,e;;YAEA,c;;U+ByiJA,iB;UACA,IAAK,WAnJyD,cAmJrD,CAAe,OAAf,CAAJ,C;;QAnJT,OAqJO,W;O;
KAlKX,C;uFAgBA,yB;MAAA,wE;MAqJA,+D;MArJA,yD;QAaW,kBAAU,oB;QAqJD,Q;QAAA,2B;QAAhB,OA
AgB,cAAhB,C;UAAgB,yB;UACZ,UAtJiD,WAsJvC,CAAY,OAAZ,C;U/BlkJP,U;UADP,Y+BokJe,W/BpkJH,W+B
okJwB,G/BpkJxB,C;UACL,IAAI,aAAJ,C;YACH,a+BkkJuC,gB;YAA5B,W/BjkJX,a+BikJgC,G/BjkJhC,EAAS,M
AAT,C;YACA,e;;YAEA,c;;U+B8jJA,iB;UACA,IAAK,WAxJyD,cAwJrD,CAAe,OAAf,CAAJ,C;;QAxJT,OA0JO,
W;O;KAvKX,C;uFAgBA,yB;MAAA,wE;MA0JA,+D;MA1JA,yD;QAaW,kBAAU,oB;QA0JD,Q;QAAA,2B;QAAh
B,OAAgB,cAAhB,C;UAAgB,yB;UACZ,UA3JiD,WA2JvC,CAAY,OAAZ,C;U/BvlJP,U;UADP,Y+BylJe,W/BzlJH,
W+BylJwB,G/BzlJxB,C;UACL,IAAI,aAAJ,C;YACH,a+BulJuC,gB;YAA5B,W/BtlJX,a+BslJgC,G/BtlJhC,EAAS,
MAAT,C;YACA,e;;YAEA,c;;U+BmlJA,iB;UACA,IAAK,WA7JyD,cA6JrD,CAAe,OAAf,CAAJ,C;;QA7JT,OA+J
O,W;O;KA5KX,C;uFAgBA,yB;MAAA,wE;MA+JA,+D;MA/JA,yD;QAaW,kBAAU,oB;QA+JD,Q;QAAA,2B;QA
AhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,UAhKiD,WAgKvC,CAAY,OAAZ,C;U/B5mJP,U;UADP,Y+B8mJe,W
/B9mJH,W+B8mJwB,G/B9mJxB,C;UACL,IAAI,aAAJ,C;YACH,a+B4mJuC,gB;YAA5B,W/B3mJX,a+B2mJgC,G/
B3mJhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;U+BwmJA,iB;UACA,IAAK,WAlKyD,cAkKrD,CAAe,OAAf,CAAJ
,C;;QAlKT,OAoKO,W;O;KAjLX,C;2FAgBA,yB;MAAA,+D;MAAA,sD;QAYoB,Q;QAAA,2B;QAAhB,OAAgB,c
AAhB,C;UAAgB,yB;UACZ,UAAU,YAAY,OAAZ,C;U/B59IP,U;UADP,Y+B89Ie,W/B99IH,W+B89IwB,G/B99Ix
B,C;UACL,IAAI,aAAJ,C;YACH,a+B49IuC,gB;YAA5B,W/B39IX,a+B29IgC,G/B39IhC,EAAS,MAAT,C;YACA,e
;;YAEA,c;;U+Bw9IA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAjBX,C;2FAoBA,yB;MAAA,+D;
MAAA,sD;QAYoB,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,UAAU,YAAY,OAAZ,C;U/Bh/I
P,U;UADP,Y+Bk/Ie,W/Bl/IH,W+Bk/IwB,G/Bl/IxB,C;UACL,IAAI,aAAJ,C;YACH,a+Bg/IuC,gB;YAA5B,W/B/+I
X,a+B++IgC,G/B/+IhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;U+B4+IA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,
OAAO,W;O;KAjBX,C;2FAoBA,yB;MAAA,+D;MAAA,sD;QAYoB,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UA
AgB,yB;UACZ,UAAU,YAAY,OAAZ,C;U/BpgJP,U;UADP,Y+BsgJe,W/BtgJH,W+BsgJwB,G/BtgJxB,C;UACL,I
AAI,aAAJ,C;YACH,a+BogJuC,gB;YAA5B,W/BngJX,a+BmgJgC,G/BngJhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;
U+BggJA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAjBX,C;2FAoBA,yB;MAAA,+D;MAAA,sD;Q
AYoB,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,UAAU,YAAY,OAAZ,C;U/BxhJP,U;UADP,Y
+B0hJe,W/B1hJH,W+B0hJwB,G/B1hJxB,C;UACL,IAAI,aAAJ,C;YACH,a+BwhJuC,gB;YAA5B,W/BvhJX,a+Buh
JgC,G/BvhJhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;U+BohJA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W
;O;KAjBX,C;2FAoBA,yB;MAAA,+D;MAAA,sE;QAaoB,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;U
ACZ,UAAU,YAAY,OAAZ,C;U/B7iJP,U;UADP,Y+B+iJe,W/B/iJH,W+B+iJwB,G/B/iJxB,C;UACL,IAAI,aAAJ,C;
YACH,a+B6iJuC,gB;YAA5B,W/B5iJX,a+B4iJgC,G/B5iJhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;U+ByiJA,iB;UA
CA,IAAK,WAAI,eAAe,OAAf,CAAJ,C;;QAET,OAAO,W;O;KAlBX,C;2FAqBA,yB;MAAA,+D;MAAA,sE;QAao
B,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,UAAU,YAAY,OAAZ,C;U/BlkJP,U;UADP,Y+Bok
Je,W/BpkJH,W+BokJwB,G/BpkJxB,C;UACL,IAAI,aAAJ,C;YACH,a+BkkJuC,gB;YAA5B,W/BjkJX,a+BikJgC,G/
BjkJhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;U+B8jJA,iB;UACA,IAAK,WAAI,eAAe,OAAf,CAAJ,C;;QAET,OA
AO,W;O;KAlBX,C;2FAqBA,yB;MAAA,+D;MAAA,sE;QAaoB,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB
,yB;UACZ,UAAU,YAAY,OAAZ,C;U/BvlJP,U;UADP,Y+BylJe,W/BzlJH,W+BylJwB,G/BzlJxB,C;UACL,IAAI,a
AAJ,C;YACH,a+BulJuC,gB;YAA5B,W/BtlJX,a+BslJgC,G/BtlJhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;U+BmlJA
,iB;UACA,IAAK,WAAI,eAAe,OAAf,CAAJ,C;;QAET,OAAO,W;O;KAlBX,C;2FAqBA,yB;MAAA,+D;MAAA,sE
;QAaoB,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,UAAU,YAAY,OAAZ,C;U/B5mJP,U;UADP
,Y+B8mJe,W/B9mJH,W+B8mJwB,G/B9mJxB,C;UACL,IAAI,aAAJ,C;YACH,a+B4mJuC,gB;YAA5B,W/B3mJX,
a+B2mJgC,G/B3mJhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;U+BwmJA,iB;UACA,IAAK,WAAI,eAAe,OAAf,CA
AJ,C;;QAET,OAAO,W;O;KAlBX,C;+EAqBA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAsKA
,Q;QAAA,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAvKiB,SAuKb,CAAU,IAAV,CAAJ,C;;QAvKhB
,OAwKO,W;O;KAlLX,C;+EAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAsKA,Q;QAAA,2

B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAvKiB,SAuKb,CAAU,IAAV,CAAJ,C;;QAvKhB,OAwKO,W;O;KAlLX,C;8EAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAsKA,Q;QAAA,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAvKiB,SAuKb,CAAU,IAAV,CAAJ,C;;QAvKhB,OAwKO,W;O;KAlLX,C;+EAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAsKA,Q;QAAA,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAvKiB,SAuKb,CAAU,IAAV,CAAJ,C;;QAvKhB,OAwKO,W;O;KAlLX,C;4FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAqDP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAtDwB,SAsDpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAtDhB,OAuDO,W;O;KAjEX,C;6FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAwDP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAzDwB,SAyDpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAzDhB,OA0DO,W;O;KApEX,C;4FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QA2DP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WA5DwB,SA4DpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QA5DhB,OA6DO,W;O;KAvEX,C;4FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QA8DP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WA/DwB,SA+DpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QA/DhB,OAgEO,W;O;KA1EX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAiEP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAlEwB,SAkEpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAlEhB,OAmEO,W;O;KA7EX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAoEP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WArEwB,SAqEpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QArEhB,OAsEO,W;O;KAhFX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAuEP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAxEwB,SAwEpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAxEhB,OAyEO,W;O;KAnFX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QA0EP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WA3EwB,SA2EpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QA3EhB,OA4EO,W;O;KAtFX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QA6EP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WA9EwB,SA8EpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QA9EhB,OA+EO,W;O;KAzFX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAgFP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAjFwB,SAiFpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAjFhB,OAkFO,W;O;KA5FX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAmFP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WApFwB,SAoFpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QApFhB,OAqFO,W;O;KA/FX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAsFP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAvFwB,SAuFpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAvFhB,OAwFO,W;O;KAlGX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAyFP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WA1FwB,SA0FpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QA1FhB,OA2FO,W;O;KArGX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QA4FP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WA7FwB,SA6FpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QA7FhB,OA8FO,W;O;KAxGX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QA+FP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAhGwB,SAgGpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAhGhB,OAiGO,W;O;KA3GX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAkGP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAnGwB,SAmGpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAnGhB,OAoGO,W;O;KA9GX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAqGP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAtGwB,SAsGpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAtGhB,OAuGO,W;O;KAjHX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAwGP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAzGwB,SAyGpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAzGhB,OA0GO,W;O;KApHX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QA2GP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WA5GwB,SA4GpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QA5GhB,OA6GO,W;O;KAvHX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QA8GP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WA/GwB,SA+GpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QA/GhB,OAgHO,W;O;KA1HX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAiHP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAlHwB,SAkHpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAlHhB,OAmHO,W;O;KA7HX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAoHP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WArHwB,SAqHpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QArHhB,OAsHO,W;O;KAhIX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAuHP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAxHwB,SAwHpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAxHhB,OAyHO,W;O;KAnIX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QA0HP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WA3HwB,SA2HpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QA3HhB,OA4HO,W;O;KAtIX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QA6HP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WA9HwB,SA8HpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QA9HhB,OA+HO,W;O;KAzIX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAgIP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAjIwB,SAiIpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAjIhB,OAkIO,W;O;KA5IX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAmIP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WApIwB,SAoIpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QApIhB,OAqIO,W;O;KA/IX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAsIP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAvIwB,SAuIpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAvIhB,OAwIO,W;O;KAlJX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAyIP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WA1IwB,SA0IpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QA1IhB,OA2IO,W;O;KArJX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QA4IP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WA7IwB,SA6IpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QA7IhB,OA8IO,W;O;KAxJX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QA+IP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAhJwB,SAgJpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAhJhB,OAiJO,W;O;KA3JX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAkJP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAnJwB,SAmJpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAnJhB,OAoJO,W;O;KA9JX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAqJP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAtJwB,SAsJpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAtJhB,OAuJO,W;O;KAjKX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAwJP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAzJwB,SAyJpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAzJhB,OA0JO,W;O;KApKX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QA2JP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WA5JwB,SA4JpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QA5JhB,OA6JO,W;O;KAvKX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QA8JP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WA/JwB,SA+JpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QA/JhB,OAgKO,W;O;KA1KX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAiKP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAlKwB,SAkKpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAlKhB,OAmKO,W;O;KA7KX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAoKP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WArKwB,SAqKpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QArKhB,OAsKO,W;O;KAhLX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAuKP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAxKwB,SAwKpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAxKhB,OAyKO,W;O;KAnLX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QA0KP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WA3KwB,SA2KpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QA3KhB,OA4KO,W;O;KAtLX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QA6KP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WA9KwB,SA8KpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QA9KhB,OA+KO,W;O;KAzLX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAgLP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAjLwB,SAiLpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAjLhB,OAkLO,W;O;KA5LX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAmLP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WApLwB,SAoLpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QApLhB,OAqLO,W;O;KA/LX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAsLP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAvLwB,SAuLpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAvLhB,OAwLO,W;O;KAlMX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAyLP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WA1LwB,SA0LpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QA1LhB,OA2LO,W;O;KArMX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QA4LP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WA7LwB,SA6LpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QA7LhB,OA8LO,W;O;KAxMX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QA+LP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAhMwB,SAgMpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAhMhB,OAiMO,W;O;KA3MX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAkMP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAnMwB,SAmMpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAnMhB,OAoMO,W;O;KA9MX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAqMP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAtMwB,SAsMpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAtMhB,OAuMO,W;O;KAjNX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAwMP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAzMwB,SAyMpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAzMhB,OA0MO,W;O;KApNX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QA2MP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WA5MwB,SA4MpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QA5MhB,OA6MO,W;O;KAvNX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QA8MP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WA/MwB,SA+MpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QA/MhB,OAgNO,W;O;KA1NX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAiNP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAlNwB,SAkNpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAlNhB,OAmNO,W;O;KA7NX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAoNP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WArNwB,SAqNpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QArNhB,OAsNO,W;O;KAhOX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAuNP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAxNwB,SAwNpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAxNhB,OAyNO,W;O;KAnOX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QA0NP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WA3NwB,SA2NpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QA3NhB,OA4NO,W;O;KAtOX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QA6NP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WA9NwB,SA8NpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QA9NhB,OA+NO,W;O;KAzOX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAgOP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAjOwB,SAiOpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAjOhB,OAkOO,W;O;KA5OX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAmOP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WApOwB,SAoOpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QApOhB,OAqOO,W;O;KA/OX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAsOP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAvOwB,SAuOpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAvOhB,OAwOO,W;O;KAlPX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAyOP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WA1OwB,SA0OpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QA1OhB,OA2OO,W;O;KArPX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QA4OP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WA7OwB,SA6OpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QA7OhB,OA8OO,W;O;KAxPX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QA+OP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAhPwB,SAgPpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAhPhB,OAiPO,W;O;KA3PX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAkPP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAnPwB,SAmPpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAnPhB,OAoPO,W;O;KA9PX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAqPP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAtPwB,SAsPpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAtPhB,OAuPO,W;O;KAjQX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAwPP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAzPwB,SAyPpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAzPhB,OA0PO,W;O;KApQX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QA2PP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WA5PwB,SA4PpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QA5PhB,OA6PO,W;O;KAvQX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QA8PP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WA/PwB,SA+PpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QA/PhB,OAgQO,W;O;KA1QX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAiQP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAlQwB,SAkQpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAlQhB,OAmQO,W;O;KA7QX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAoQP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WArQwB,SAqQpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QArQhB,OAsQO,W;O;KAhRX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAuQP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAxQwB,SAwQpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAxQhB,OAyQO,W;O;KAnRX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QA0QP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WA3QwB,SA2QpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QA3QhB,OA4QO,W;O;KAtRX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QA6QP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WA9QwB,SA8QpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QA9QhB,OA+QO,W;O;KAzRX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAgRP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAjRwB,SAiRpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAjRhB,OAkRO,W;O;KA5RX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAmRP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WApRwB,SAoRpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QApRhB,OAqRO,W;O;KA/RX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAsRP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAvRwB,SAuRpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAvRhB,OAwRO,W;O;KAlSX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAyRP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WA1RwB,SA0RpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QA1RhB,OA2RO,W;O;KArSX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QA4RP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WA7RwB,SA6RpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QA7RhB,OA8RO,W;O;KAxSX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QA+RP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAhSwB,SAgSpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAhShB,OAiSO,W;O;KA3SX,C;+FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAkSP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAnSwB,SAmSpB,EAAU,cAAV,EAAU,sBAAV,EAAU,WAAmB,IAAnB,CAAJ,C;;QAnShB,OAoSO,W;O;KA9SX,C;+FAaA,yB;MAAA,g

;MACI,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,qB;;MAC9C,O
AAO,K;K;iFAGX,yC;MAaoB,Q;MADhB,kBAAkB,O;MACF,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM
,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;;MACpC,OAAO,W;K;iFAGX,yC;MAaoB,Q;MADhB,kBAAkB,O;MA
CF,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;;MACpC,OAAO
,W;K;iFAGX,yC;MAaoB,Q;MADhB,kBAAkB,O;MACF,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,cAA
c,UAAU,WAAV,EAAuB,OAAvB,C;;MACpC,OAAO,W;K;iFAGX,yC;MAaoB,Q;MADhB,kBAAkB,O;MACF,2B
;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;;MACpC,OAAO,W;K;
+FAGX,yC;MAeoB,UAA8B,M;MAF9C,YAAY,C;MACZ,kBAAkB,O;MACF,2B;MAAhB,OAAgB,cAAhB,C;QA
AgB,yB;QAAM,cAAc,WAAU,cAAV,EAAU,sBAAV,WAAmB,WAAnB,EAAgC,OAAhC,C;;MACpC,OAAO,W;
K;+FAGX,yC;MAeoB,UAA8B,M;MAF9C,YAAY,C;MACZ,kBAAkB,O;MACF,2B;MAAhB,OAAgB,cAAhB,C;
QAAgB,yB;QAAM,cAAc,WAAU,cAAV,EAAU,sBAAV,WAAmB,WAAnB,EAAgC,OAAhC,C;;MACpC,OAAO,
W;K;+FAGX,yC;MAeoB,UAA8B,M;MAF9C,YAAY,C;MACZ,kBAAkB,O;MACF,2B;MAAhB,OAAgB,cAAhB,
C;QAAgB,yB;QAAM,cAAc,WAAU,cAAV,EAAU,sBAAV,WAAmB,WAAnB,EAAgC,OAAhC,C;;MACpC,OAA
O,W;K;+FAGX,yC;MAeoB,UAA8B,M;MAF9C,YAAY,C;MACZ,kBAAkB,O;MACF,2B;MAAhB,OAAgB,cAAh
B,C;QAAgB,yB;QAAM,cAAc,WAAU,cAAV,EAAU,sBAAV,WAAmB,WAAnB,EAAgC,OAAhC,C;;MACpC,O
AAO,W;K;0FAGX,yB;MA1uDI,8D;MA0uDJ,gD;QAeoC,Q;QAHhC,YAtvDgB,cAAR,iBAAQ,C;QAuvDhB,kBA
AkB,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,YAAJ,EAAI,oBAAJ,QAAV,EAAwB,WAA
xB,C;;QAElB,OAAO,W;O;KAjBX,C;2FAoBA,yB;MAtvDI,8D;MAsvDJ,gD;QAeoC,Q;QAHhC,YAlwDgB,cAAR,
iBAAQ,C;QAmwDhB,kBAAkB,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,YAAJ,EAAI,oB
AAJ,QAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAjBX,C;2FAoBA,yB;MAlwDI,8D;MAkwDJ,gD;QAeoC,
Q;QAHhC,YA9wDgB,cAAR,iBAAQ,C;QA+wDhB,kBAAkB,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,U
AAU,uBAAI,YAAJ,EAAI,oBAAJ,QAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAjBX,C;2FAoBA,yB;MA9
wDI,8D;MA8wDJ,gD;QAeoC,Q;QAHhC,YA1xDgB,cAAR,iBAAQ,C;QA2xDhB,kBAAkB,O;QAClB,OAAO,SA
AS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,YAAJ,EAAI,oBAAJ,QAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;
KAjBX,C;yGAoBA,yB;MA1zDI,8D;MA0zDJ,gD;QAaI,YAv0DgB,cAAR,iBAAQ,C;QAw0DhB,kBAAkB,O;QAC
lB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,sBAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,
qB;;QAEJ,OAAO,W;O;KAnBX,C;yGAsBA,yB;MAx0DI,8D;MAw0DJ,gD;QAaI,YAr1DgB,cAAR,iBAAQ,C;QAs
1DhB,kBAAkB,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,sBAAI,KAAJ,CAAjB,EA
A6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KAnBX,C;yGAsBA,yB;MAt1DI,8D;MAs1DJ,gD;QAaI,YAn2Dg
B,cAAR,iBAAQ,C;QAo2DhB,kBAAkB,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,s
BAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KAnBX,C;yGAsBA,yB;MAp2DI,8D;MA
o2DJ,gD;QAaI,YAj3DgB,cAAR,iBAAQ,C;QAk3DhB,kBAAkB,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,
UAAU,KAAV,EAAiB,sBAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KAnBX,C;uFAs
BA,6B;MAOoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,OAAO,OAAP,C;;K;uFAG1B,6B;
MAOoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,OAAO,OAAP,C;;K;uFAG1B,6B;MAOoB
,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,OAAO,OAAP,C;;K;uFAG1B,6B;MAOoB,Q;MAA
A,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,OAAO,OAAP,C;;K;qGAG1B,6B;MAUiB,UAAa,M;MAD1
B,YAAY,C;MACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QAAM,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;
;K;qGAGvB,6B;MAUiB,UAAa,M;MAD1B,YAAY,C;MACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QAAM,QAAO
,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;K;qGAGvB,6B;MAUiB,UAAa,M;MAD1B,YAAY,C;MACC,2B;MAA
b,OAAa,cAAb,C;QAAa,sB;QAAM,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;K;qGAGvB,6B;MAUiB,UA
Aa,M;MAD1B,YAAY,C;MACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QAAM,QAAO,cAAP,EAAO,sBAAP,WAA
gB,IAAhB,C;;K;IAGvB,2B;MAKI,OAAO,uB;K;IAGX,2B;MAKI,OAAO,uB;K;IAGX,2B;MAKI,OAAO,uB;K;IA
GX,2B;MAKI,OAAO,uB;K;mFAGX,yB;MA9gEI,8D;MA8gEJ,sC;QAMW,sB;;UAuCP,IAAI,mBAAJ,C;YAAe,qB
AAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBA7jEgB,cAAR,iBAAQ,C;UA8jEhB,IAAI,cAAa,CAAj
B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA3CmB,QA2CJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,
M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QA9Ce,QA8CP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C
;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QApDP,yB;O;KANJ,C;mFASA,yB;MA/gEI,8D;MA+gEJ

,sC;QAMW,sB;;UAuDP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBA9kEgB,cAAR,iBAAQ,C;UA+kEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA3DmB,QA2DJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QA9De,QA8DP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QApEP,yB;O;KANJ,C;mFASA,yB;MAhhEI,8D;MAghEJ,sC;QAMW,sB;;UAuEP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBA/E,lEgB,cAAR,iBAAQ,C;UAgmEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA3EmB,QA2EJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QA9Ee,QA8EP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QApFP,yB;O;KANJ,C;mFASA,yB;MAjhEI,8D;MAihEJ,sC;QAMW,sB;;UAuFP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAhGhnEgB,cAAR,iBAAQ,C;UAinEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA3FmB,QA2FJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QA9Fe,QA8FP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QApGP,yB;O;KANJ,C;+FASA,yB;MAljEI,8D;MAkjEJ,sC;QAMW,sB;;UAuGP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAxGA,lEgB,cAAR,iBAAQ,C;UAymEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAnGmB,QAmGJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QAtGe,QAsGP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA5GP,yB;O;KANJ,C;+FASA,yB;MAnkEI,8D;MAmkEJ,sC;QAMW,sB;;UA+GP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAhHA,lEgB,cAAR,iBAAQ,C;UAinEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA3GmB,QA2GJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QA9Ge,QA8GP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QApHP,yB;O;KANJ,C;+FASA,yB;MAnlEI,8D;MAmlEJ,sC;QAMW,sB;;UAuHP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAxHA,lEgB,cAAR,iBAAQ,C;UAymEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAnHmB,QAmHJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QAtHe,QAsHP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA5HP,yB;O;KANJ,C;+FASA,yB;MA3lEI,8D;MA2lEJ,sC;QAMW,sB;;UA+HP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAhIA,lEgB,cAAR,iBAAQ,C;UAinEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA3HmB,QA2HJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QA9He,QA8HP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QApIP,yB;O;KANJ,C;+FASA,yB;MAnmEI,8D;MAmmEJ,sC;QAMW,sB;;UAuIP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAxIA,lEgB,cAAR,iBAAQ,C;UAymEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAnImB,QAmIJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QAtIe,QAsIP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA5IP,yB;O;KANJ,C;+FASA,yB;MA3mEI,8D;MA2mEJ,sC;QAMW,sB;;UA+IP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAhJA,lEgB,cAAR,iBAAQ,C;UAinEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA3ImB,QA2IJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QA9Ie,QA8IP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QApJP,yB;O;KANJ,C;+FASA,yB;MAnnEI,8D;MAmnEJ,sC;QAMW,sB;;UAuJP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAxJA,lEgB,cAAR,iBAAQ,C;UAymEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAnJmB,QAmJJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QAtJe,QAsJP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA5JP,yB;O;KANJ,C;+FASA,yB;MA3nEI,8D;MA2nEJ,sC;QAMW,sB;;UA+JP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAhKA,lEgB,cAAR,iBAAQ,C;UAinEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA3JmB,QA2JJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QA9Je,QA8JP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QApKP,yB;O;KANJ,C;+FASA,yB;MAnoEI,8D;MAmoEJ,sC;QAMW,sB;;UAuKP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAxKA,lEgB,cAAR,iBAAQ,C;UAymEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAnKmB,QAmKJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QAtKe,QAsKP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA5KP,yB;O;KANJ,C;+FASA,yB;MA3oEI,8D;MA2oEJ,sC;QAMW,sB;;UA+KP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAhLA,lEgB,cAAR,iBAAQ,C;UAinEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA3KmB,QA2KJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QA9Ke,QA8KP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QApLP,yB;O;KANJ,C;+FASA,yB;MAnpEI,8D;MAmpEJ,sC;QAMW,sB;;UAuLP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAxLA,lEgB,cAAR,iBAAQ,C;UAymEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAnLmB,QAmLJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QAtLe,QAsLP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA5LP,yB;O;KANJ,C;+FASA,yB;MA3pEI,8D;MA2pEJ,sC;QAMW,sB;;UA+LP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAhMA,lEgB,cAAR,iBAAQ,C;UAinEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA3LmB,QA2LJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QA9Le,QA8LP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QApMP,yB;O;KANJ,C;+FASA,yB;MAnqEI,8D;MAmqEJ,sC;QAMW,sB;;UAuMP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAxMA,lEgB,cAAR,iBAAQ,C;UAymEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAnMmB,QAmMJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QAtMe,QAsMP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA5MP,yB;O;KANJ,C;+FASA,yB;MA3qEI,8D;MA2qEJ,sC;QAMW,sB;;UA+MP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAhNA,lEgB,cAAR,iBAAQ,C;UAinEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA3MmB,QA2MJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QA9Me,QA8MP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QApNP,yB;O;KANJ,C;+FASA,yB;MAnrEI,8D;MAmrEJ,sC;QAMW,sB;;UAuNP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAxNA,lEgB,cAAR,iBAAQ,C;UAymEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAnNmB,QAmNJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QAtNe,QAsNP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA5NP,yB;O;KANJ,C;+FASA,yB;MA3rEI,8D;MA2rEJ,sC;QAMW,sB;;UA+NP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAhOA,lEgB,cAAR,iBAAQ,C;UAinEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA3NmB,QA2NJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QA9Ne,QA8NP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QApOP,yB;O;KANJ,C;+FASA,yB;MAnsEI,8D;MAmsEJ,sC;QAMW,sB;;UAuOP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAxOA,lEgB,cAAR,iBAAQ,C;UAymEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAnOmB,QAmOJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QAtOe,QAsOP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA5OP,yB;O;KANJ,C;+FASA,yB;MA3sEI,8D;MA2sEJ,sC;QAMW,sB;;UA+OP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAhPA,lEgB,cAAR,iBAAQ,C;UAinEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA3OmB,QA2OJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QA9Oe,QA8OP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QApPP,yB;O;KANJ,C;+FASA,yB;MAntEI,8D;MAmtEJ,sC;QAMW,sB;;UAuPP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAxPA,lEgB,cAAR,iBAAQ,C;UAymEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAnPmB,QAmPJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QAtPe,QAsPP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA5PP,yB;O;KANJ,C;+FASA,yB;MA3tEI,8D;MA2tEJ,sC;QAMW,sB;;UA+PP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAhQA,lEgB,cAAR,iBAAQ,C;UAinEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA3PmB,QA2PJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QA9Pe,QA8PP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QApQP,yB;O;KANJ,C;+FASA,yB;MAnuEI,8D;MAmuEJ,sC;QAMW,sB;;UAuQP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAxQA,lEgB,cAAR,iBAAQ,C;UAymEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAnQmB,QAmQJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QAtQe,QAsQP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA5QP,yB;O;KANJ,C;+FASA,yB;MA3uEI,8D;MA2uEJ,sC;QAMW,sB;;UA+QP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAhRA,lEgB,cAAR,iBAAQ,C;UAinEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA3QmB,QA2QJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QA9Qe,QA8QP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QApRP,yB;O;KANJ,C;+FASA,yB;MAnvEI,8D;MAmvEJ,sC;QAMW,sB;;UAuRP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAxRA,lEgB,cAAR,iBAAQ,C;UAymEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAnRmB,QAmRJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QAtRe,QAsRP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA5RP,yB;O;KANJ,C;+FASA,yB;MA3vEI,8D;MA2vEJ,sC;QAMW,sB;;UA+RP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAhSA,lEgB,cAAR,iBAAQ,C;UAinEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA3RmB,QA2RJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QA9Re,QA8RP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QApSP,yB;O;KANJ,C;+FASA,yB;MAnwEI,8D;MAmwEJ,sC;QAMW,sB;;UAuSP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAxSA,lEgB,cAAR,iBAAQ,C;UAymEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAnSmB,QAmSJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QAtSe,QAsSP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA5SP,yB;O;KANJ,C;+FASA,yB;MA3wEI,8D;MA2wEJ,sC;QAMW,sB;;UA+SP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAhTA,lEgB,cAAR,iBAAQ,C;UAinEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA3SmB,QA2SJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QA9Se,QA8SP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QApTP,yB;O;KANJ,C;+FASA,yB;MAnxEI,8D;MAmxEJ,sC;QAMW,sB;;UAuTP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAxTA,lEgB,cAAR,iBAAQ,C;UAymEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAnTmB,QAmTJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QAtTe,QAsTP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA5TP,yB;O;KANJ,C;+FASA,yB;MA3xEI,8D;MA2xEJ,sC;QAMW,sB;;UA+TP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAhUA,lEgB,cAAR,iBAAQ,C;UAinEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA3TmB,QA2TJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QA9Te,QA8TP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QApUP,yB;O;KANJ,C;+FASA,yB;MAnyEI,8D;MAmyEJ,sC;QAMW,sB;;UAuUP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAxUA,lEgB,cAAR,iBAAQ,C;UAymEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAnUmB,QAmUJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QAtUe,QAsUP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA5UP,yB;O;KANJ,C;+FASA,yB;MA3yEI,8D;MA2yEJ,sC;QAMW,sB;;UA+UP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAhVA,lEgB,cAAR,iBAAQ,C;UAinEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA3UmB,QA2UJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QA9Ue,QA8UP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QApVP,yB;O;KANJ,C;+FASA,yB;MAnzEI,8D;MAmzEJ,sC;QAMW,sB;;UAuVP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAxVA,lEgB,cAAR,iBAAQ,C;UAymEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAnVmB,QAmVJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QAtVe,QAsVP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA5VP,yB;O;KANJ,C;+FASA,yB;MA3zEI,8D;MA2zEJ,sC;QAMW,sB;;UA+VP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAhWA,lEgB,cAAR,iBAAQ,C;UAinEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA3VmB,QA2VJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QA9Ve,QA8VP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QApWP,yB;O;KANJ,C;+FASA,yB;MAn0EI,8D;MAm0EJ,sC;QAMW,sB;;UAuWP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAxWA,lEgB,cAAR,iBAAQ,C;UAymEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAnWmB,QAmWJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QAtWe,QAsWP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA5WP,yB;O;KANJ,C;+FASA,yB;MA30EI,8D;MA20EJ,sC;QAMW,sB;;UA+WP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAhXA,lEgB,cAAR,iBAAQ,C;UAinEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA3WmB,QA2WJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QA9We,QA8WP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QApXP,yB;O;KANJ,C;+FASA,yB;MAn1EI,8D;MAm1EJ,sC;QAMW,sB;;UAuXP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAxXA,lEgB,cAAR,iBAAQ,C;UAymEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAnXmB,QAmXJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QAtXe,QAsXP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA5XP,yB;O;KANJ,C;+FASA,yB;MA31EI,8D;MA21EJ,sC;QAMW,sB;;UA+XP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAhYA,lEgB,cAAR,iBAAQ,C;UAinEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA3XmB,QA2XJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QA9We,QA8WP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QApYP,yB;O;KANJ,C;+FASA,yB;MAn2EI,8D;MAm2EJ,sC;QAMW,sB;;UAuYP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAxYA,lEgB,cAAR,iBAAQ,C;UAymEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAnYmB,QAmYJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QAtYe,QAsYP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA5YP,yB;O;KANJ,C;+FASA,yB;MA32EI,8D;MA22EJ,sC;QAMW,sB;;UA+YP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAhZA,lEgB,cAAR,iBAAQ,C;UAinEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA3YmB,QA2YJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QA9Ye,QA8YP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QApZP,yB;O;KANJ,C;+FASA,yB;MAn3EI,8D;MAm3EJ,sC;QAMW,sB;;UAuZP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAxZA,lEgB,cAAR,iBAAQ,C;UAymEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eAnZmB,QAmZJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QAtZe,QAsZP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QA5ZP,yB;O;KANJ,C;+FASA,yB;MA33EI,8D;MA23EJ,sC;QAMW,sB;;UA+ZP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;WACf,cAAc,sBAAK,CAAL,C;UACd,gBAhaA,lEgB,cAAR,iBAAQ,C;UAinEhB,IAAI,cAAa,CAAjB,B,C;YAAoB,qBAAO,O;YAAP,uB;WACpB,eA3ZmB,QA2ZJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QA9Ze,QA8ZP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;UAGnB,qBAAO,O;;;QApaP,yB;O;KANJ,C

S,sBAAK,CAAL,CAAT,C;UACR,WpBjiMG,MAAO,KoBiiMO,QpBjiMP,EoBiiMiB,CpBjiMjB,C;;QoBmiMd,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAhxEI,8D;MpB9xHJ,iB;MoB8iMA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAhyEG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA/xEI,8D;MpBtxHJ,iB;MoBsjMA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAxyEG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAvyEI,8D;MpB9xHJ,iB;MoB8jMA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAhzEG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAvzEI,8D;MpBtxHJ,iB;MoBskMA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAxzEG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA/zEI,8D;MpB9xHJ,iB;MoB8kMA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAh0EG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA/0EI,8D;MpBtxHJ,iB;MoBslMA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAx0EG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAv1EI,8D;MpB9xHJ,iB;MoB8mMA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAh1EG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAv2EI,8D;MpBtxHJ,iB;MoBsnMA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAx1EG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA/2EI,8D;MpB9xHJ,iB;MoB8nMA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAh2EG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA/3EI,8D;MpBtxHJ,iB;MoBsoMA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAx3EG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAv4EI,8D;MpB9xHJ,iB;MoB8oMA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAh4EG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAv5EI,8D;MpBtxHJ,iB;MoBspMA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAx4EG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA/5EI,8D;MpB9xHJ,iB;MoB8pMA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAh5EG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA/6EI,8D;MpBtxHJ,iB;MoBsqMA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAx6EG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAv7EI,8D;MpB9xHJ,iB;MoB8rMA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAh7EG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAv8EI,8D;MpBtxHJ,iB;MoBssMA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAx7EG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA/8EI,8D;MpB9xHJ,iB;MoB8tMA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAh8EG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA/9EI,8D;MpBtxHJ,iB;MoBsuMA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAx9EG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAv+EI,8D;MpB9xHJ,iB;MoBuvMA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAh+EG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAv/EI,8D;MpBtxHJ,iB;MoBuwMA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAx/EG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAhgFI,8D;MpB9xHJ,iB;MoBwxMA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAigFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAxgFI,8D;MpBtxHJ,iB;MoBwyMA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAygFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAhhFI,8D;MpB9xHJ,iB;MoBwzMA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAihFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAxhFI,8D;MpBtxHJ,iB;MoB00MA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAyhFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAhiFI,8D;MpB9xHJ,iB;MoB01MA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAiiFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAxiFI,8D;MpBtxHJ,iB;MoB42MA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAyiFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAhjFI,8D;MpB9xHJ,iB;MoB43MA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAijFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAxjFI,8D;MpBtxHJ,iB;MoB84MA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAyjFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAhkFI,8D;MpB9xHJ,iB;MoB86MA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAikFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAxkFI,8D;MpBtxHJ,iB;MoBg9MA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAykFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAhlFI,8D;MpB9xHJ,iB;MoBg+MA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAilFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAxlFI,8D;MpBtxHJ,iB;MoBk/MA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAylFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAhmFI,8D;MpB9xHJ,iB;MoBkgNA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAimFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAxmFI,8D;MpBtxHJ,iB;MoBohNA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAymFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAhnFI,8D;MpB9xHJ,iB;MoBoiNA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAinFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAxnFI,8D;MpBtxHJ,iB;MoBskNA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAynFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAhoFI,8D;MpB9xHJ,iB;MoBsmNA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAioFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAxoFI,8D;MpBtxHJ,iB;MoBwnNA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAyoFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAhpFI,8D;MpB9xHJ,iB;MoBwoNA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAipFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAxpFI,8D;MpBtxHJ,iB;MoB0pNA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAypFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAhqFI,8D;MpB9xHJ,iB;MoB0qNA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAiqFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAxqFI,8D;MpBtxHJ,iB;MoB4rNA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAyqFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAhrFI,8D;MpB9xHJ,iB;MoB4sNA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAirFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAxrFI,8D;MpBtxHJ,iB;MoB8tNA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAyrFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAhsFI,8D;MpB9xHJ,iB;MoB8uNA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAisFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAxsFI,8D;MpBtxHJ,iB;MoBgwNA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAysFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAhtFI,8D;MpB9xHJ,iB;MoBgxNA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAitFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAxtFI,8D;MpBtxHJ,iB;MoBkyNA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAytFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAhuFI,8D;MpB9xHJ,iB;MoBkzNA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAiuFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAxuFI,8D;MpBtxHJ,iB;MoB40NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAyuFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAhvFI,8D;MpB9xHJ,iB;MoB40NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAivFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAxvFI,8D;MpBtxHJ,iB;MoB42NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAyvFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAhwFI,8D;MpB9xHJ,iB;MoB42NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAiwFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAxwFI,8D;MpBtxHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAywFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAhxFI,8D;MpB9xHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAixFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAxxFI,8D;MpBtxHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAyxFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAhyFI,8D;MpB9xHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAiyFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAxyFI,8D;MpBtxHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAyyFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAhzFI,8D;MpB9xHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAizFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAxzFI,8D;MpBtxHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAyzFG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA10FI,8D;MpB9xHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA20FG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA50FI,8D;MpBtxHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA60FG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA90FI,8D;MpB9xHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA+0FG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAh1FI,8D;MpBtxHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAi1FG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAl1FI,8D;MpB9xHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAm1FG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAp1FI,8D;MpBtxHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAq1FG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAt1FI,8D;MpB9xHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAu1FG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAx1FI,8D;MpBtxHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAy1FG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA11FI,8D;MpB9xHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA21FG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA51FI,8D;MpBtxHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA61FG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA91FI,8D;MpB9xHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA+1FG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAh2FI,8D;MpBtxHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAi2FG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAl2FI,8D;MpB9xHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAm2FG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAp2FI,8D;MpBtxHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAq2FG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAt2FI,8D;MpB9xHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAu2FG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAx2FI,8D;MpBtxHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAy2FG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA12FI,8D;MpB9xHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA22FG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA52FI,8D;MpBtxHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA62FG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA92FI,8D;MpB9xHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA+2FG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAh3FI,8D;MpBtxHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAi3FG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAl3FI,8D;MpB9xHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAm3FG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAp3FI,8D;MpBtxHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAq3FG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAt3FI,8D;MpB9xHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAu3FG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAx3FI,8D;MpBtxHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAy3FG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA13FI,8D;MpB9xHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA23FG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA53FI,8D;MpBtxHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA63FG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA93FI,8D;MpB9xHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA+3FG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAh4FI,8D;MpBtxHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAi4FG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAl4FI,8D;MpB9xHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAm4FG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAp4FI,8D;MpBtxHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAq4FG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAt4FI,8D;MpB9xHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAu4FG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAx4FI,8D;MpBtxHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAy4FG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA14FI,8D;MpB9xHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA24FG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA54FI,8D;MpBtxHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA64FG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA94FI,8D;MpB9xHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA+4FG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAh5FI,8D;MpBtxHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAi5FG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAl5FI,8D;MpB9xHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAm5FG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAp5FI,8D;MpBtxHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAq5FG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAt5FI,8D;MpB9xHJ,iB;MoB44NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAu5FG,cAAR,iBAAQ,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAx5FI,8D;MpBtxHJ,iB;MoB44NA,sC;QAgBiB,Q;Q

iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MA/lFI,8D;MA+lFJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA3mFG,cAAR,iBAAQ,Q;QA2mFb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MA5mFI,8D;MA4mFJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAxnFG,cAAR,iBAAQ,Q;QAwnFb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAznFI,8D;MAynFJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAroFG,cAAR,iBAAQ,Q;QAqoFb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAprFG,cAAR,iBAAQ,Q;QAorFb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAhsFG,cAAR,iBAAQ,Q;QAgsFb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA5sFG,cAAR,iBAAQ,Q;QA4sFb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAxtFG,cAAR,iBAAQ,Q;QAwtFb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAhuFG,cAAR,iBAAQ,Q;QAguFb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAxvFG,cAAR,iBAAQ,Q;QAwvFb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA5wFG,cAAR,iBAAQ,Q;QA4wFb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAhyFG,cAAR,iBAAQ,Q;QAgyFb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAxzFG,cAAR,iBAAQ,Q;QAwzFb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA50FG,cAAR,iBAAQ,Q;QA40Fb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAh2FG,cAAR,iBAAQ,Q;QAg2Fb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA53FG,cAAR,iBAAQ,Q;QA43Fb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAh5FG,cAAR,iBAAQ,Q;QAg5Fb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAx6FG,cAAR,iBAAQ,Q;QAw6Fb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA57FG,cAAR,iBAAQ,Q;QA47Fb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAh9FG,cAAR,iBAAQ,Q;QAg9Fb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAx+FG,cAAR,iBAAQ,Q;QAw+Fb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA5/FG,cAAR,iBAAQ,Q;QA4/Fb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAhhGG,cAAR,iBAAQ,Q;QAghGb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAxiGG,cAAR,iBAAQ,Q;QAwiGb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA5jGG,cAAR,iBAAQ,Q;QA4jGb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAxkGG,cAAR,iBAAQ,Q;QAwkGb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA5lGG,cAAR,iBAAQ,Q;QA4lGb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAxmGG,cAAR,iBAAQ,Q;QAwmGb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA5nGG,cAAR,iBAAQ,Q;QA4nGb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAxoGG,cAAR,iBAAQ,Q;QAwoGb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA5pGG,cAAR,iBAAQ,Q;QA4pGb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAxqGG,cAAR,iBAAQ,Q;QAwqGb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA5rGG,cAAR,iBAAQ,Q;QA4rGb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAxsGG,cAAR,iBAAQ,Q;QAwsGb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA5tGG,cAAR,iBAAQ,Q;QA4tGb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAxuGG,cAAR,iBAAQ,Q;QAwuGb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA5vGG,cAAR,iBAAQ,Q;QA4vGb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAxwGG,cAAR,iBAAQ,Q;QAwwGb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA5xGG,cAAR,iBAAQ,Q;QA4xGb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAxyGG,cAAR,iBAAQ,Q;QAwyGb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA5zGG,cAAR,iBAAQ,Q;QA4zGb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAx0GG,cAAR,iBAAQ,Q;QAw0GT,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA51GG,cAAR,iBAAQ,Q;QA41GT,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAx2GG,cAAR,iBAAQ,Q;QAw2GT,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA53GG,cAAR,iBAAQ,Q;QA43GT,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAx4GG,cAAR,iBAAQ,Q;QAw4GT,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA55GG,cAAR,iBAAQ,Q;QA45GT,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAx6GG,cAAR,iBAAQ,Q;QAw6GT,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA57GG,cAAR,iBAAQ,Q;QA47GT,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAx8GG,cAAR,iBAAQ,Q;QAw8GT,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA59GG,cAAR,iBAAQ,Q;QA49GT,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAx+GG,cAAR,iBAAQ,Q;QAw+GT,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA5/GG,cAAR,iBAAQ,Q;QA4/GT,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAxgHG,cAAR,iBAAQ,Q;QAwgHT,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAxhHG,cAAR,iBAAQ,Q;QAwhHT,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAxiHG,cAAR,iBAAQ,Q;QAwiHT,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAxjHG,cAAR,iBAAQ,Q;QAwjHT,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAxkHG,cAAR,iBAAQ,Q;QAwkHT,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAxlHG,cAAR,iBAAQ,Q;QAwlHT,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAxmHG,cAAR,iBAAQ,Q;QAwmHT,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAxnHG,cAAR,iBAAQ,Q;QAwnHT,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAAA,qFAAI,8D;MAAA,qFAAJ,sC;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAxoHG,cAAR,iBAAQ,Q;QAwoHT,aAAU,CAAV,iB;UACI,

CjqN6E,0BkCiqNzE,GlC77M8B,KAAL,GAAiB,KApO+B,EkCiqNnE,ClC77MwB,KAAL,GAAiB,KApO+B,CkCiqNzE,IAAJ,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,2C;MAKI,OAAO,4BAAc,UAAd,C;K;IAGX,2C;MAKI,OAAO,4BAAc,UAAd,C;K;IAGX,2C;MAKI,OAAO,4BAAc,UAAd,C;K;IAGX,2C;MAKI,OAAO,4BAAc,UAAd,C;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OA17FG,gBAAR,iBAAQ,C;MA07FhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAj8FG,gBAAR,iBAAQ,C;MAi8FhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAx8FG,gBAAR,iBAAQ,C;MAw8FhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OA/8FG,gBAAR,iBAAQ,C;MA+8FhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAt9FG,gBAAR,iBAAQ,C;MAs9FhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OA7+FG,gBAAR,iBAAQ,C;MA6+FhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAp/FG,gBAAR,iBAAQ,C;MAo/FhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OA3gGG,gBAAR,iBAAQ,C;MA2gGhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAhhGG,gBAAR,iBAAQ,C;MAghGhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAqiGG,gBAAR,iBAAQ,C;MAriGhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAjjGG,gBAAR,iBAAQ,C;MAijGhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAzkGG,gBAAR,iBAAQ,C;MAykGhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OA1lGG,gBAAR,iBAAQ,C;MA0lGhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAnnGG,gBAAR,iBAAQ,C;MAmnGhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OApoGG,gBAAR,iBAAQ,C;MAooGhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAqpGG,gBAAR,iBAAQ,C;MArpGhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAjrGG,gBAAR,iBAAQ,C;MAirGhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAzsGG,gBAAR,iBAAQ,C;MAysGhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OA1tGG,gBAAR,iBAAQ,C;MA0tGhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAnvGG,gBAAR,iBAAQ,C;MAmvGhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OApwGG,gBAAR,iBAAQ,C;MAowGhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAryGG,gBAAR,iBAAQ,C;MAqyGhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAtzGG,gBAAR,iBAAQ,C;MAszGhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OA30GG,gBAAR,iBAAQ,C;MA20GhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OA51GG,gBAAR,iBAAQ,C;MA41GhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OA72GG,gBAAR,iBAAQ,C;MA62GhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OA93GG,gBAAR,iBAAQ,C;MA83GhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OA/5GG,gBAAR,iBAAQ,C;MA+5GhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAh8GG,gBAAR,iBAAQ,C;MAg8GhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAj9GG,gBAAR,iBAAQ,C;MAi9GhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAl+GG,gBAAR,iBAAQ,C;MAk+GhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAm/GG,gBAAR,iBAAQ,C;MAn/GhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAhgHG,gBAAR,iBAAQ,C;MAggHhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAjhHG,gBAAR,iBAAQ,C;MAihHhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAliHG,gBAAR,iBAAQ,C;MAkiHhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAmjHG,gBAAR,iBAAQ,C;MAnjHhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAjkHG,gBAAR,iBAAQ,C;MAikHhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAzlHG,gBAAR,iBAAQ,C;MAylHhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OA1mHG,gBAAR,iBAAQ,C;MA0mHhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAnnHG,gBAAR,iBAAQ,C;MAmnHhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OApoHG,gBAAR,iBAAQ,C;MAooHhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAqpHG,gBAAR,iBAAQ,C;MArpHhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAjrHG,gBAAR,iBAAQ,C;MAirHhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAzsHG,gBAAR,iBAAQ,C;MAysHhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OA1tHG,gBAAR,iBAAQ,C;MA0tHhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAnvHG,gBAAR,iBAAQ,C;MAmvHhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OApwHG,gBAAR,iBAAQ,C;MAowHhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAryHG,gBAAR,iBAAQ,C;MAqyHhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAtzHG,gBAAR,iBAAQ,C;MAszHhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OA30HG,gBAAR,iBAAQ,C;MA20HhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OA51HG,gBAAR,iBAAQ,C;MA41HhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OA72HG,gBAAR,iBAAQ,C;MA62HhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OA93HG,gBAAR,iBAAQ,C;MA83HhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OA/5HG,gBAAR,iBAAQ,C;MA+5HhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAh8HG,gBAAR,iBAAQ,C;MAg8HhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAj9HG,gBAAR,iBAAQ,C;MAi9HhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAl+HG,gBAAR,iBAAQ,C;MAk+HhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAm/HG,gBAAR,iBAAQ,C;MAn/HhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAhgIG,gBAAR,iBAAQ,C;MAggIhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAjhIG,gBAAR,iBAAQ,C;MAihIhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAliIG,gBAAR,iBAAQ,C;MAkiIhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAmjIG,gBAAR,iBAAQ,C;MAnjIhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAjkIG,gBAAR,iBAAQ,C;MAikIhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAzlIG,gBAAR,iBAAQ,C;MAylIhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OA1mIG,gBAAR,iBAAQ,C;MA0mIhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAnnIG,gBAAR,iBAAQ,C;MAmnIhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OApoIG,gBAAR,iBAAQ,C;MAooIhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAqpIG,gBAAR,iBAAQ,C;MArpIhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAjrIG,gBAAR,iBAAQ,C;MAirIhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAzsIG,gBAAR,iBAAQ,C;MAysIhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OA1tIG,gBAAR,iBAAQ,C;MA0tIhB,aAAU,

AAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAGnB,OAAO,O;O;KAtBX,C;kFAyBA,yB;M
AAA,sE;MAtpGI,8D;MpB/iHJ,iB;MoBqsNA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eA
Ae,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAtqGG,cAAR,iBAAQ,C;QAsqGhB,aAAU,CAAV,iB;UACI,QAAQ,S
AAS,sBAAK,CAAL,CAAT,C;UACR,WpB/sNG,MAAO,KoB+sNO,QpB/sNP,EoB+sNiB,CpB/sNjB,C;;QoBitNd,
OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MArqGI,8D;MpBvjHJ,iB;MoB4tNA,sC;QAgBiB,Q;QAFb,IAAI,
mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OArrGG,cAAR,iBAAQ,C;QA
qrGhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBtuNG,MAAO,KoBsuNO,QpBt
uNP,EoBsuNiB,CpBtuNjB,C;;QoBwuNd,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAprGI,8D;MpB/jHJ,i
B;MoBmvNA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAA
T,C;QACF,OApsGG,cAAR,iBAAQ,C;QAosGhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;
UACR,WpB7vNG,MAAO,KoB6vNO,QpB7vNP,EoB6vNiB,CpB7vNjB,C;;QoB+vNd,OAAO,Q;O;KApBX,C;mF
AuBA,yB;MAAA,sE;MAnsGI,8D;MpBvkHJ,iB;MoB0wNA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM
,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAntGG,cAAR,iBAAQ,C;QAmtGhB,aAAU,CAAV,iB;
UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBpxNG,MAAO,KoBoxNO,QpBpxNP,EoBoxNiB,CpBpx
NjB,C;;QoBsxNd,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAlvGI,8D;MpB1jHJ,iB;MoB4yNA,sC;QAgB
iB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAlwGG,c
AAR,iBAAQ,C;QAkwGhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBtzNG,M
AAO,KoBszNO,QpBtzNP,EoBszNiB,CpBtzNjB,C;;QoBwzNd,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;M
AjwGI,8D;MpBlkHJ,iB;MoBm0NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAA
S,sBAAK,CAAL,CAAT,C;QACF,OAjxGG,cAAR,iBAAQ,C;QAixGhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sB
AAK,CAAL,CAAT,C;UACR,WpB70NG,MAAO,KoB60NO,QpB70NP,EoB60NiB,CpB70NjB,C;;QoB+0Nd,OAA
O,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAhxGI,8D;MpB1kHJ,iB;MoB01NA,sC;QAgBiB,Q;QAFb,IAAI,mB
AAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAhyGG,cAAR,iBAAQ,C;QAgy
GhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBp2NG,MAAO,KoBo2NO,QpBp
2NP,EoBo2NiB,CpBp2NjB,C;;QoBs2Nd,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA/xGI,8D;MpBllHJ,i
B;MoBi3NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAA
T,C;QACF,OA/yGG,cAAR,iBAAQ,C;QA+yGhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;
UACR,WpB33NG,MAAO,KoB23NO,QpB33NP,EoB23NiB,CpB33NjB,C;;QoB63Nd,OAAO,Q;O;KApBX,C;mF
AuBA,yB;MAAA,sE;MA90GI,8D;MA80GJ,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe
,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA51GG,cAAR,iBAAQ,C;QA41GhB,aAAU,CAAV,iB;UACI,QAAQ,SA
AS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KApB
X,C;mFAuBA,yB;MAAA,sE;MA71GI,8D;MA61GJ,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACr
B,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA32GG,cAAR,iBAAQ,C;QA22GhB,aAAU,CAAV,iB;UACI,QA
AQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;
O;KApBX,C;mFAuBA,yB;MAAA,sE;MA52GI,8D;MA42GJ,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,
6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA13GG,cAAR,iBAAQ,C;QA03GhB,aAAU,CAAV,iB;
UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,
OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA33GI,8D;MA23GJ,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAA
e,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAz4GG,cAAR,iBAAQ,C;QAy4GhB,aAAU,
CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;
;QAGnB,OAAO,Q;O;KApBX,C;8FAuBA,yB;MA16GI,8D;MpB/iHJ,iB;MoBy9NA,sC;QAciB,Q;QAFb,IAAI,mB
AAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAx7GG,cAAR,iBAAQ,C;QAw7Gh
B,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBj+NG,MAAO,KoBi+NO,QpBj+NP,
EoBi+NiB,CpBj+NjB,C;;QoBm+Nd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAv7GI,8D;MpBvjHJ,iB;MoB8+NA,sC
;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAr8GG,
cAAR,iBAAQ,C;QAq8GhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBt/NG,M
AAO,KoBs/NO,QpBt/NP,EoBs/NiB,CpBt/NjB,C;;QoBw/Nd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAp8GI,8D;Mp
B/jHJ,iB;MoBmgOA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,C

AAT,C;QACF,OAl9GG,cAAR,iBAAQ,C;QAk9GhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpB3gOG,MAAO,KoB2gOO,QpB3gOP,EoB2gOiB,CpB3gOjB,C;;QoB6gOd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAj9GI,8D;MpBvkHJ,iB;MoBwhOA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA/9GG,cAAR,iBAAQ,C;QA+gGhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBhiOG,MAAO,KoBgiOO,QpBhiOP,EoBgiOiB,CpBhiOjB,C;;QoBkiOd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MA9/GI,8D;MpB1jHJ,iB;MoBwjOA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA5gHG,cAAR,iBAAQ,C;QA4iGhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBjkOG,MAAO,KoBikOO,QpBjkOP,EoBikOiB,CpBjkOjB,C;;QoBmkOd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MA7hHI,8D;MpB3lHJ,iB;MoBylOA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA3iHG,cAAR,iBAAQ,C;QA2kGhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBlmOG,MAAO,KoBkmOO,QpBlmOP,EoBkmOiB,CpBlmOjB,C;;QoBomOd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MA9jHI,8D;MpB5nHJ,iB;MoB0nOA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA5kHG,cAAR,iBAAQ,C;QA4mGhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBnoOG,MAAO,KoBmoOO,QpBnoOP,EoBmoOiB,CpBnoOjB,C;;QoBqoOd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MA/lHI,8D;MpB7pHJ,iB;MoB2pOA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA7mHG,cAAR,iBAAQ,C;QA6oGhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBpqOG,MAAO,KoBoqOO,QpBpqOP,EoBoqOiB,CpBpqOjB,C;;QoBsqOd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAhoHI,8D;MpB9rHJ,iB;MoB4rOA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA9oHG,cAAR,iBAAQ,C;QA8qGhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBrsOG,MAAO,KoBqsOO,QpBrsOP,EoBqsOiB,CpBrsOjB,C;;QoBusOd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAjqHI,8D;MpB/sHJ,iB;MoB6sOA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA/qHG,cAAR,iBAAQ,C;QA+sGhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBttOG,MAAO,KoBstOO,QpBttOP,EoBstOiB,CpBttOjB,C;;QoBwtOd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAlsHI,8D;MpBhuHJ,iB;MoB8tOA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAhtHG,cAAR,iBAAQ,C;QAgvGhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBvvOG,MAAO,KoBuvOO,QpBvvOP,EoBuvOiB,CpBvvOjB,C;;QoByvOd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAntHI,8D;MpBjwHJ,iB;MoB+vOA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAjuHG,cAAR,iBAAQ,C;QAiwGhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBxxOG,MAAO,KoBwxOO,QpBxxOP,EoBwxOiB,CpBxxOjB,C;;QoB0xOd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAptHI,8D;MpBlyHJ,iB;MoBgyOA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAlvHG,cAAR,iBAAQ,C;QAkxGhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBzzOG,MAAO,KoByzOO,QpBzzOP,EoByzOiB,CpBzzOjB,C;;QoB2zOd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MArvHI,8D;MpBnzHJ,iB;MoBizOA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAnwHG,cAAR,iBAAQ,C;QAmyGhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpB10OG,MAAO,KoB00OO,QpB10OP,EoB00OiB,CpB10OjB,C;;QoB40Od,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAtxHI,8D;MpBp0HJ,iB;MoBk0OA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OApyHG,cAAR,iBAAQ,C;QAozGhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpB32OG,MAAO,KoB22OO,QpB32OP,EoB22OiB,CpB32OjB,C;;QoB62Od,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAvzHI,8D;MpBr1HJ,iB;MoBm1OA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OArzHG,cAAR,iBAAQ,C;QAq0GhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpB54OG,MAAO,KoB44OO,QpB54OP,EoB44OiB,CpB54OjB,C;;QoB84Od,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAx1HI,8D;MpBt2HJ,iB;MoBo2OA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAt1HG,cAAR,iBAAQ,C;QAs2GhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpB75OG,MAAO,KoB65OO,QpB75OP,EoB65OiB,CpB75OjB,C;;QoB+5Od,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAz3HI,8D;MpBv3HJ,iB;MoBq3OA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAv3HG,cAAR,iBAAQ,C;QAu4GhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpB98OG,MAAO,KoB88OO,QpB98OP,EoB88OiB,CpB98OjB,C;;QoBg9Od,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MA15HI,8D;MpBx4HJ,iB;MoBs4OA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAx5HG,cAAR,iBAAQ,C;QAw6GhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpB/+OG,MAAO,KoB++OO,QpB/+OP,EoB++OiB,CpB/+OjB,C;;QoBi/Od,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MA36HI,8D;MpBz5HJ,iB;MoBu5OA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAz6HG,cAAR,iBAAQ,C;QAy7GhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBhhPG,MAAO,KoBghPO,QpBhhPP,EoBghPiB,CpBhhPjB,C;;QoBkhPd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MA57HI,8D;MpB16HJ,iB;MoBw6OA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA17HG,cAAR,iBAAQ,C;QA08GhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBjjPG,MAAO,KoBijPO,QpBjjPP,EoBijPiB,CpBjjPjB,C;;QoBmjPd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MA78HI,8D;MpB37HJ,iB;MoBy7OA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA37HG,cAAR,iBAAQ,C;QA29GhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBlkPG,MAAO,KoBkkPO,QpBlkPP,EoBkkPiB,CpBlkPjB,C;;QoBokPd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MA99HI,8D;MpB58HJ,iB;MoB08OA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA58HG,cAAR,iBAAQ,C;QA4+GhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBnlPG,MAAO,KoBmlPO,QpBnlPP,EoBmlPiB,CpBnlPjB,C;;QoBqlPd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MA/+HI,8D;MpB79HJ,iB;MoB2+OA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA79HG,cAAR,iBAAQ,C;QA6/GhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBpmPG,MAAO,KoBomPO,QpBpmPP,EoBomPiB,CpBpmPjB,C;;QoBsmPd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAhgII,8D;MpB99HJ,iB;MoB4/OA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA99HG,cAAR,iBAAQ,C;QA8gHhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBroPG,MAAO,KoBqoPO,QpBroPP,EoBqoPiB,CpBroPjB,C;;QoBuoPd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAjhII,8D;MpB/+HJ,iB;MoB6gPA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA/+HG,cAAR,iBAAQ,C;QA+hHhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBtqPG,MAAO,KoBsqPO,QpBtqPP,EoBsqPiB,CpBtqPjB,C;;QoBwqPd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAlihII,8D;MpBhgIJ,iB;MoB8hPA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAhgIG,cAAR,iBAAQ,C;QAgjHhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBvrPG,MAAO,KoBurPO,QpBvrPP,EoBurPiB,CpBvrPjB,C;;QoByrPd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAnjII,8D;MpBjhIJ,iB;MoB+iPA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAjhIG,cAAR,iBAAQ,C;QAikHhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBxsPG,MAAO,KoBwsPO,QpBxsPP,EoBwsPiB,CpBxsPjB,C;;QoB0sPd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MApkII,8D;MpBlhIJ,iB;MoBgkPA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAlhIG,cAAR,iBAAQ,C;QAkkHhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBztPG,MAAO,KoBytPO,QpBztPP,EoBytPiB,CpBztPjB,C;;QoB2tPd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MArlII,8D;MpBnhIJ,iB;MoBilPA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAnhIG,cAAR,iBAAQ,C;QAmlHhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpB1uPG,MAAO,KoB0uPO,QpB1uPP,EoB0uPiB,CpB1uPjB,C;;QoB4uPd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAtmII,8D;MpBphIJ,iB;MoBkmPA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAphIG,cAAR,iBAAQ,C;QAomHhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpB3vPG,MAAO,KoB2vPO,QpB3vPP,EoB2vPiB,CpB3vPjB,C;;QoB6vPd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAvnII,8D;MpBrhIJ,iB;MoBmnPA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OArhIG,cAAR,iBAAQ,C;QAqnHhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpB5wPG,MAAO,KoB4wPO,QpB5wPP,EoB4wPiB,CpB5wPjB,C;;QoB8wPd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAxoII,8D;MpBthIJ,iB;MoBooPA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAthIG,cAAR,iBAAQ,C;QAspHhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpB7xPG,MAAO,KoB6xPO,QpB7xPP,EoB6xPiB,CpB7xPjB,C;;QoB+xPd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAzpII,8D;MpBvhIJ,iB;MoBqpPA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAvhIG,cAAR,iBAAQ,C;QAuqHhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpB9yPG,MAAO,KoB8yPO,QpB9yPP,EoB8yPiB,CpB9yPjB,C;;QoBgzPd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MA1qII,8D;MpBxhIJ,iB;MoBsqPA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAxhIG,cAAR,iBAAQ,C;QAwrHhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpB/zPG,MAAO,KoB+zPO,QpB/zPP,EoB+zPiB,CpB/zPjB,C;;QoBi0Pd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MA3rII,8D;MpBziIJ,iB;MoBurPA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAziIG,cAAR,iBAAQ,C;QAysHhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBh1PG,MAAO,KoBg1PO,QpBh1PP,EoBg1PiB,CpBh1PjB,C;;QoBk1Pd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MA5sII,8D;MpB1iIJ,iB;MoBwsPA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA1iIG,cAAR,iBAAQ,C;QA0tHhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBj2PG,MAAO,KoBi2PO,QpBj2PP,EoBi2PiB,CpBj2PjB,C;;QoBm2Pd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MA7tII,8D;MpB3iIJ,iB;MoBytPA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA3iIG,cAAR,iBAAQ,C;QA2uHhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBl3PG,MAAO,KoBk3PO,QpBl3PP,EoBk3PiB,CpBl3PjB,C;;QoBo3Pd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MA9uII,8D;MpB5jIJ,iB;MoB0uPA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA5jIG,cAAR,iBAAQ,C;QA4vHhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBn4PG,MAAO,KoBm4PO,QpBn4PP,EoBm4PiB,CpBn4PjB,C;;QoBq4Pd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MA/vII,8D;MpB7kIJ,iB;MoB2vPA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA7kIG,cAAR,iBAAQ,C;QA6wHhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBp5PG,MAAO,KoBo5PO,QpBp5PP,EoBo5PiB,CpBp5PjB,C;;QoBs5Pd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAhxII,8D;MpB9lIJ,iB;MoB4wPA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA9lIG,cAAR,iBAAQ,C;QA8xHhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBr6PG,MAAO,KoBq6PO,QpBr6PP,EoBq6PiB,CpBr6PjB,C;;QoBu6Pd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAjyII,8D;MpB/mIJ,iB;MoB6xPA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA/mIG,cAAR,iBAAQ,C;QA+yHhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBt7PG,MAAO,KoBs7PO,QpBt7PP,EoBs7PiB,CpBt7PjB,C;;QoBw7Pd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAlzII,8D;MpBhoIJ,iB;MoB8yPA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAhoIG,cAAR,iBAAQ,C;QAgzHhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBv8PG,MAAO,KoBu8PO,QpBv8PP,EoBu8PiB,CpBv8PjB,C;;QoBy8Pd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAn0II,8D;MpBjpIJ,iB;MoB+zPA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAjpIG,cAAR,iBAAQ,C;QAi0HhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBx9PG,MAAO,KoBw9PO,QpBx9PP,EoBw9PiB,CpBx9PjB,C;;QoB09Pd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAp1II,8D;MpBlqIJ,iB;MoBg1PA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAlqIG,cAAR,iBAAQ,C;QAk1HhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBz+PG,MAAO,KoBy+PO,QpBz+PP,EoBy+PiB,CpBz+PjB,C;;QoB2+Pd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAr2II,8D;MpBnrIJ,iB;MoBi2PA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAnrIG,cAAR,iBAAQ,C;QAm2HhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpB1/PG,MAAO,KoB0/PO,QpB1/PP,EoB0/PiB,CpB1/PjB,C;;QoB4/Pd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAt3II,8D;MpBpsIJ,iB;MoBk3PA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OApsIG,cAAR,iBAAQ,C;QAo3HhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpB3gQG,MAAO,KoB2gQO,QpB3gQP,EoB2gQiB,CpB3gQjB,C;;QoB6gQd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAv4II,8D;MpBrtIJ,iB;MoBm4PA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OArtIG,cAAR,iBAAQ,C;QAq4HhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpB5hQG,MAAO,KoB4hQO,QpB5hQP,EoB4hQiB,CpB5hQjB,C;;QoB8hQd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAx5II,8D;MpBtuIJ,iB;MoBo5PA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAtuIG,cAAR,iBAAQ,C;QAs5HhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpB7iQG,MAAO,KoB6iQO,QpB7iQP,EoB6iQiB,CpB7iQjB,C;;QoB+iQd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAz6II,8D;MpBvvIJ,iB;MoBq6PA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAvvIG,cAAR,iBAAQ,C;QAu6HhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpB9jQG,MAAO,KoB8jQO,QpB9jQP,EoB8jQiB,CpB9jQjB,C;;QoBgkQd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MA17II,8D;MpBxwIJ,iB;MoBs7PA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAxwIG,cAAR,iBAAQ,C;QAw7HhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpB/kQG,MAAO,KoB+kQO,QpB/kQP,EoB+kQiB,CpB/kQjB,C;;QoBilQd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MA38II,8D;MpBzxIJ,iB;MoBu8PA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAzxIG,cAAR,iBAAQ,C;QAy8HhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBhmQG,MAAO,KoBgmQO,QpBhmQP,EoBgmQiB,CpBhmQjB,C;;QoBkmQd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MA59II,8D;MpB1yIJ,iB;MoBw9PA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA1yIG,cAAR,iBAAQ,C;QA09HhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBjnQG,MAAO,KoBinQO,QpBjnQP,EoBinQiB,CpBjnQjB,C;;QoBmnQd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MA7+II,8D;MpB3zIJ,iB;MoBy+PA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA3zIG,cAAR,iBAAQ,C;QA2+HhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBloQG,MAAO,KoBkoQO,QpBloQP,EoBkoQiB,CpBloQjB,C;;QoBooQd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MA9/II,8D;MpB50IJ,iB;MoB0/PA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA50IG,cAAR,iBAAQ,C;QA4/HhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBnpQG,MAAO,KoBmpQO,QpBnpQP,EoBmpQiB,CpBnpQjB,C;;QoBqpQd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MA/gJI,8D;MpB71IJ,iB;MoB2gQA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA71IG,cAAR,iBAAQ,C;QA6gIhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBpqQG,MAAO,KoBoqQO,QpBpqQP,EoBoqQiB,CpBpqQjB,C;;QoBsqQd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAhiJI,8D;MpB92IJ,iB;MoB4hQA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA92IG,cAAR,iBAAQ,C;QA8hIhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBrrQG,MAAO,KoBqrQO,QpBrrQP,EoBqrQiB,CpBrrQjB,C;;QoBurQd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAjjJI,8D;MpB/3IJ,iB;MoB6iQA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA/3IG,cAAR,iBAAQ,C;QA+iIhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBtsQG,MAAO,KoBssQO,QpBtsQP,EoBssQiB,CpBtsQjB,C;;QoBwsQd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAlkJI,8D;MpBh5IJ,iB;MoB8jQA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAh5IG,cAAR,iBAAQ,C;QAgkIhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBvtQG,MAAO,KoButQO,QpBvtQP,EoButQiB,CpBvtQjB,C;;QoBytQd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAnlJI,8D;MpBj6IJ,iB;MoB+kQA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAj6IG,cAAR,iBAAQ,C;QAilIhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBxuQG,MAAO,KoBwuQO,QpBxuQP,EoBwuQiB,CpBxuQjB,C;;QoB0uQd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MApmJI,8D;MpBl7IJ,iB;MoBgmQA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAl7IG,cAAR,iBAAQ,C;QAkmIhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBzvQG,MAAO,KoByvQO,QpBzvQP,EoByvQiB,CpBzvQjB,C;;QoB2vQd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MArnJI,8D;MpBn8IJ,iB;MoBinQA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,

BAAK,CAAL,CAAT,C;QACF,OA3xHG,cAAR,iBAAQ,C;QA2xHhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBA
AK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAA
W,C;;QAGnB,OAAO,Q;O;KAlBX,C;uGAqBA,yB;MA5xHI,8D;MA4xHJ,kD;QAYiB,Q;QAFb,IAAI,mBAAJ,C;U
AAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAxyHG,cAAR,iBAAQ,C;QAwyHhB,aAAU,
CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CA
AX,GAAkC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;uGAqBA,yB;MAzyHI,8D;MAyyHJ,kD;
QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OArzHG,
cAAR,iBAAQ,C;QAqzHhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,
SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAlBX,C;IAqB
A,iC;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OA91HG,gBA
AR,iBAAQ,C;MA81HhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,InC5mP8D,YmC4mP1D,GnC5
mP2E,KAAjB,EmC4mPpD,CnC5mPiF,KAA7B,CmC4mP1D,IAAJ,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAG
X,iC;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAr2HG,gBA
AR,iBAAQ,C;MAq2HhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,InBnnP+D,amBmnP3D,GnBnn
P6E,KAAlB,EmBmnPrD,CnBnnPmF,KAA9B,CmBmnP3D,IAAJ,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX
,iC;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OA52HG,gBAA
R,iBAAQ,C;MA42HhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IpC1pP4E,0BoC0pPxE,GpC/6O
8B,KAAL,GAAiB,GA3O8B,EoC0pPlE,CpC/6OwB,KAAL,GAAiB,GA3O8B,CoC0pPxE,IAAJ,C;UAAa,MAAM,
C;;MAEvB,OAAO,G;K;IAGX,iC;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CA
AL,C;MACG,OAn3HG,gBAAR,iBAAQ,C;MAm3HhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,I
lCjqP6E,0BkCiqPzE,GlC77O8B,KAAL,GAAiB,KApO+B,EkCiqPnE,ClC77OwB,KAAL,GAAiB,KApO+B,CkCiq
PzE,IAAJ,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,2C;MAKI,OAAO,4BAAc,UAAd,C;K;IAGX,2C;MAK
I,OAAO,4BAAc,UAAd,C;K;IAGX,2C;MAKI,OAAO,4BAAc,UAAd,C;K;IAGX,2C;MAKI,OAAO,4BAAc,UAAd,
C;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OA17
HG,gBAAR,iBAAQ,C;MA07HhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,
GAAR,EAAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;M
AFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAj8HG,gBAAR,iBAAQ,C;MAi
8HhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAAa,CAAb,CAAX,
GAA6B,CAAjC,C;UAAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,O
AAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAx8HG,gBAAR,iBAAQ,C;MAw8HhB,aAAU,CAAV,iB;QAC
I,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAAoC,
MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBA
AK,CAAL,C;MACG,OA/8HG,gBAAR,iBAAQ,C;MA+8HhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;Q
ACR,IAAI,UAAW,SAAQ,GAAR,EAAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAAoC,MAAM,C;;MAE9C,OAAO,G;
K;iFAGX,qB;MASI,OAAO,mB;K;iFAGX,qB;MASI,OAAO,mB;K;iFAGX,qB;MASI,OAAO,mB;K;iFAGX,qB;M
ASI,OAAO,mB;K;iFAGX,gC;MASoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,UAA
U,OAAV,CAAJ,C;UAAwB,OAAO,K;;MACrD,OAAO,I;K;iFAGX,gC;MASoB,Q;MAAA,2B;MAAhB,OAAgB,c
AAhB,C;QAAgB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,K;;MACrD,OAAO,I;K;iFAGX,gC;M
ASoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAA
O,K;;MACrD,OAAO,I;K;iFAGX,gC;MASoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI
,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,K;;MACrD,OAAO,I;K;qFAGX,6B;MAOmC,Q;MAAA,2B;MAAhB,OA
AgB,cAAhB,C;QAAgB,yB;QAAM,OAAO,OAAP,C;;MAArC,gB;K;qFAGJ,6B;MAOmC,Q;MAAA,2B;MAAhB,
OAAgB,cAAhB,C;QAAgB,yB;QAAM,OAAO,OAAP,C;;MAArC,gB;K;qFAGJ,6B;MAOmC,Q;MAAA,2B;MAAh
B,OAAgB,cAAhB,C;QAAgB,yB;QAAM,OAAO,OAAP,C;;MAArC,gB;K;qFAGJ,6B;MAOmC,Q;MAAA,2B;MA
AhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,OAAO,OAAP,C;;MAArC,gB;K;mGAGJ,6B;MAtrEiB,gB;MADb,YA
AY,C;MACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QAAM,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;MA
gsEnB,gB;K;mGAGJ,6B;MAtrEiB,gB;MADb,YAAY,C;MACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QAAM,QA
AO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;MAgsEnB,gB;K;mGAGJ,6B;MAtrEiB,gB;MADb,YAAY,C;MACC,

2B;MAAb,OAAa,cAAb,C;QAAa,sB;QAAM,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;MAgsEnB,gB;K;mGAGJ,6B;MAtrEiB,gB;MADb,YAAY,C;MACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QAAM,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;MAgsEnB,gB;K;qFAGJ,yB;MAAA,4F;MA9qII,8D;MA8qIJ,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAjsID,cAAR,iBAAQ,Q;QAisIhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MA/rIA,8D;MA+rIA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAltID,cAAR,iBAAQ,Q;QAktIhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MAhtIA,8D;MAgtIA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAnuID,cAAR,iBAAQ,Q;QAmuIhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MAjvIA,8D;MAivIA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OApvID,cAAR,iBAAQ,Q;QAovIhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MAlwIA,8D;MAkwIA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OArwID,cAAR,iBAAQ,Q;QAqwIhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MAnxIA,8D;MAmxIA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAtxID,cAAR,iBAAQ,Q;QAsxIhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MApyIA,8D;MAoyIA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAvyID,cAAR,iBAAQ,Q;QAuyIhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MArzIA,8D;MAqzIA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAxzID,cAAR,iBAAQ,Q;QAwzIhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MAt0IA,8D;MAs0IA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAz0ID,cAAR,iBAAQ,Q;QAy0IhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MAv1IA,8D;MAu1IA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OA11ID,cAAR,iBAAQ,Q;QA01IhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MAx2IA,8D;MAw2IA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OA32ID,cAAR,iBAAQ,Q;QA22IhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MAz3IA,8D;MAy3IA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OA53ID,cAAR,iBAAQ,Q;QA43IhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MA14IA,8D;MA04IA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OA74ID,cAAR,iBAAQ,Q;QA64IhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MA35IA,8D;MA25IA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OA95ID,cAAR,iBAAQ,Q;QA85IhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MA56IA,8D;MA46IA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OA/6ID,cAAR,iBAAQ,Q;QA+6IhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MA78IA,8D;MA68IA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAh9ID,cAAR,iBAAQ,Q;QAg9IhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MA99IA,8D;MA89IA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAj+ID,cAAR,iBAAQ,Q;QAi+IhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MA/+IA,8D;MA++IA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAl/ID,cAAR,iBAAQ,Q;QAk/IhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MAhgJA,8D;MAggJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAngJD,cAAR,iBAAQ,Q;QAmgJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MAjhJA,8D;MAihJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OApgJD,cAAR,iBAAQ,Q;QAogJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MAlhJA,8D;MAkhJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OArgJD,cAAR,iBAAQ,Q;QAqgJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MAnhJA,8D;MAmhJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAtgJD,cAAR,iBAAQ,Q;QAsgJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MAphJA,8D;MAohJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAvgJD,cAAR,iBAAQ,Q;QAugJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MArhJA,8D;MAqhJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAxgJD,cAAR,iBAAQ,Q;QAwgJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MAthJA,8D;MAshJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAzgJD,cAAR,iBAAQ,Q;QAygJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MAvhJA,8D;MAuhJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OA1gJD,cAAR,iBAAQ,Q;QA0gJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MAxhJA,8D;MAwhJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OA3gJD,cAAR,iBAAQ,Q;QA2gJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MAziJA,8D;MAyiJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OA5gJD,cAAR,iBAAQ,Q;QA4gJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MA1iJA,8D;MA0iJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OA7gJD,cAAR,iBAAQ,Q;QA6gJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MA3iJA,8D;MA2iJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OA9gJD,cAAR,iBAAQ,Q;QA8gJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MA5iJA,8D;MA4iJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OA/gJD,cAAR,iBAAQ,Q;QA+gJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MA7iJA,8D;MA6iJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAhhJD,cAAR,iBAAQ,Q;QAghJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MA9iJA,8D;MA8iJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAjhJD,cAAR,iBAAQ,Q;QAihJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MA/iJA,8D;MA+iJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAlhJD,cAAR,iBAAQ,Q;QAkhJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MAhjJA,8D;MAgjJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAnhJD,cAAR,iBAAQ,Q;QAmhJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MAjjJA,8D;MAijJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAphJD,cAAR,iBAAQ,Q;QAohJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MAljJA,8D;MAkjJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OArhJD,cAAR,iBAAQ,Q;QAqhJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MAnjJA,8D;MAmjJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAthJD,cAAR,iBAAQ,Q;QAshJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MApjJA,8D;MAojJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAvhJD,cAAR,iBAAQ,Q;QAuhJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MArjJA,8D;MAqjJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAxhJD,cAAR,iBAAQ,Q;QAwhJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MAtjJA,8D;MAsjJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAzhJD,cAAR,iBAAQ,Q;QAyhJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MAvjJA,8D;MAujJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OA1hJD,cAAR,iBAAQ,Q;QA0hJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MAxjJA,8D;MAwjJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OA3hJD,cAAR,iBAAQ,Q;QA2hJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MAzjJA,8D;MAyjJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OA5hJD,cAAR,iBAAQ,Q;QA4hJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MA1jJA,8D;MA0jJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OA7hJD,cAAR,iBAAQ,Q;QA6hJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MA3jJA,8D;MA2jJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OA9hJD,cAAR,iBAAQ,Q;QA8hJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MA5jJA,8D;MA4jJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OA/hJD,cAAR,iBAAQ,Q;QA+hJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MA7jJA,8D;MA6jJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAhiJD,cAAR,iBAAQ,Q;QAgiJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MA9jJA,8D;MA8jJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAjiJD,cAAR,iBAAQ,Q;QAiiJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MA/jJA,8D;MA+jJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAliJD,cAAR,iBAAQ,Q;QAkiJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MAhkJA,8D;MAgkJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAniJD,cAAR,iBAAQ,Q;QAmiJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MAjkJA,8D;MAikJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OApiJD,cAAR,iBAAQ,Q;QAoiJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MAlkJA,8D;MAkkJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAriJD,cAAR,iBAAQ,Q;QAqiJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MAnkJA,8D;MAmkJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAtiJD,cAAR,iBAAQ,Q;QAsiJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MApkJA,8D;MAokJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAviJD,cAAR,iBAAQ,Q;QAuiJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MArkJA,8D;MAqkJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAxiJD,cAAR,iBAAQ,Q;QAwiJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MAtkJA,8D;MAskJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAziJD,cAAR,iBAAQ,Q;QAyiJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MAvkJA,8D;MAukJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OA1iJD,cAAR,iBAAQ,Q;QA0iJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MAxkJA,8D;MAwkJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OA3iJD,cAAR,iBAAQ,Q;QA2iJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MAzkJA,8D;MAykJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OA5iJD,cAAR,iBAAQ,Q;QA4iJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MA1kJA,8D;MA0kJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OA7iJD,cAAR,iBAAQ,Q;QA6iJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MA3kJA,8D;MA2kJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OA9iJD,cAAR,iBAAQ,Q;QA8iJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MA5kJA,8D;MA4kJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OA/iJD,cAAR,iBAAQ,Q;QA+iJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MA7kJA,8D;MA6kJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAhjJD,cAAR,iBAAQ,Q;QAgjJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MA9kJA,8D;MA8kJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAjjJD,cAAR,iBAAQ,Q;QAijJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MA/kJA,8D;MA+kJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAljJD,cAAR,iBAAQ,Q;QAkjJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MAhlJA,8D;MAglJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAnjJD,cAAR,iBAAQ,Q;QAmjJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MAjlJA,8D;MAilJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OApjJD,cAAR,iBAAQ,Q;QAojJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;qFAyBA,yB;MAAA,4F;MAllJA,8D;MAklJA,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,k

oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+FAyBA,yB;MAAA,4F;MA3kJI,8D;MA2kJJ,uC;QAkB0B,UAEU,M;QAJhC,YA3lJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+FAyBA,yB;MAAA,4F;MA5lJI,8D;MA4lJJ,uC;QAkB0B,UAEU,M;QAJhC,YA7mJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+FAyBA,yB;MAAA,4F;MA7mJI,8D;MA6mJJ,uC;QAkB0B,UAEU,M;QAJhC,YA9nJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;6GAyBA,yB;MAAA,4F;MA9nJI,8D;MA8nJJ,uC;QAkB0B,UAEU,M;QAJhC,YA/oJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MA/oJI,8D;MA+oJJ,uC;QAkB0B,UAEU,M;QAJhC,YAhqJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MAhqJI,8D;MAgqJJ,uC;QAkB0B,UAEU,M;QAJhC,YAjrJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MAjrJI,8D;MAirJJ,uC;QAkB0B,UAEU,M;QAJhC,YAlsJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MAlsJI,8D;MAksJJ,uC;QAkB0B,UAEU,M;QAJhC,YAntJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MAntJI,8D;MAmtJJ,uC;QAkB0B,UAEU,M;QAJhC,YAptJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MAptJI,8D;MAotJJ,uC;QAkB0B,UAEU,M;QAJhC,YArtJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MArtJI,8D;MAqtJJ,uC;QAkB0B,UAEU,M;QAJhC,YAttJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MAttJI,8D;MAstJJ,uC;QAkB0B,UAEU,M;QAJhC,YAvtJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MAvtJI,8D;MAutJJ,uC;QAkB0B,UAEU,M;QAJhC,YAxtJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MAxtJI,8D;MAwtJJ,uC;QAkB0B,UAEU,M;QAJhC,YAztJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MAztJI,8D;MAytJJ,uC;QAkB0B,UAEU,M;QAJhC,YA1tJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MA1tJI,8D;MA0tJJ,uC;QAkB0B,UAEU,M;QAJhC,YA3tJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MA3tJI,8D;MA2tJJ,uC;QAkB0B,UAEU,M;QAJhC,YA5tJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MA5tJI,8D;MA4tJJ,uC;QAkB0B,UAEU,M;QAJhC,YA7tJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MA7tJI,8D;MA6tJJ,uC;QAkB0B,UAEU,M;QAJhC,YA9tJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MA9tJI,8D;MA8tJJ,uC;QAkB0B,UAEU,M;QAJhC,YA/tJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MA/tJI,8D;MA+tJJ,uC;QAkB0B,UAEU,M;QAJhC,YAhuJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MAhuJI,8D;MAguJJ,uC;QAkB0B,UAEU,M;QAJhC,YAjuJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MAjuJI,8D;MAiuJJ,uC;QAkB0B,UAEU,M;QAJhC,YAluJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MAluJI,8D;MAkuJJ,uC;QAkB0B,UAEU,M;QAJhC,YAnuJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MAnuJI,8D;MAmuJJ,uC;QAkB0B,UAEU,M;QAJhC,YApuJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MApuJI,8D;MAouJJ,uC;QAkB0B,UAEU,M;QAJhC,YAruJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MAruJI,8D;MAquJJ,uC;QAkB0B,UAEU,M;QAJhC,YAtuJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MAtuJI,8D;MAsuJJ,uC;QAkB0B,UAEU,M;QAJhC,YAvuJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MAvuJI,8D;MAuuJJ,uC;QAkB0B,UAEU,M;QAJhC,YAxuJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MAxuJI,8D;MAwuJJ,uC;QAkB0B,UAEU,M;QAJhC,YAzuJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MAzuJI,8D;MAyuJJ,uC;QAkB0B,UAEU,M;QAJhC,YA1uJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MA1uJI,8D;MA0uJJ,uC;QAkB0B,UAEU,M;QAJhC,YA3uJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MA3uJI,8D;MA2uJJ,uC;QAkB0B,UAEU,M;QAJhC,YA5uJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MA5uJI,8D;MA4uJJ,uC;QAkB0B,UAEU,M;QAJhC,YA7uJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MA7uJI,8D;MA6uJJ,uC;QAkB0B,UAEU,M;QAJhC,YA9uJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MA9uJI,8D;MA8uJJ,uC;QAkB0B,UAEU,M;QAJhC,YA/uJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MA/uJI,8D;MA+uJJ,uC;QAkB0B,UAEU,M;QAJhC,YAhvJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MAhvJI,8D;MAgvJJ,uC;QAkB0B,UAEU,M;QAJhC,YAjvJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MAjvJI,8D;MAivJJ,uC;QAkB0B,UAEU,M;QAJhC,YAlvJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MAlvJI,8D;MAkvJJ,uC;QAkB0B,UAEU,M;QAJhC,YAnvJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MAnvJI,8D;MAmvJJ,uC;QAkB0B,UAEU,M;QAJhC,YApvJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MApvJI,8D;MAovJJ,uC;QAkB0B,UAEU,M;QAJhC,YArvJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MArvJI,8D;MAqvJJ,uC;QAkB0B,UAEU,M;QAJhC,YAtvJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MAtvJI,8D;MAsvJJ,uC;QAkB0B,UAEU,M;QAJhC,YAvvJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MAvvJI,8D;MAuvJJ,uC;QAkB0B,UAEU,M;QAJhC,YAxvJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MAxvJI,8D;MAwvJJ,uC;QAkB0B,UAEU,M;QAJhC,YAzvJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MAzvJI,8D;MAyvJJ,uC;QAkB0B,UAEU,M;QAJhC,YA1vJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MA1vJI,8D;MA0vJJ,uC;QAkB0B,UAEU,M;QAJhC,YA3vJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MA3vJI,8D;MA2vJJ,uC;QAkB0B,UAEU,M;QAJhC,YA5vJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MA5vJI,8D;MA4vJJ,uC;QAkB0B,UAEU,M;QAJhC,YA7vJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MA7vJI,8D;MA6vJJ,uC;QAkB0B,UAEU,M;QAJhC,YA9vJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MA9vJI,8D;MA8vJJ,uC;QAkB0B,UAEU,M;QAJhC,YA/vJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MA/vJI,8D;MA+vJJ,uC;QAkB0B,UAEU,M;QAJhC,YAhwJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MAhwJI,8D;MAgwJJ,uC;QAkB0B,UAEU,M;QAJhC,YAjwJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MAjwJI,8D;MAiwJJ,uC;QAkB0B,UAEU,M;QAJhC,YAlwJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MAlwJI,8D;MAkwJJ,uC;QAkB0B,UAEU,M;QAJhC,YAnwJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MAnwJI,8D;MAmwJJ,uC;QAkB0B,UAEU,M;QAJhC,YApwJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MApwJI,8D;MAowJJ,uC;QAkB0B,UAEU,M;QAJhC,YArwJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MArwJI,8D;MAqwJJ,uC;QAkB0B,UAEU,M;QAJhC,YAtwJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MAtwJI,8D;MAswJJ,uC;QAkB0B,UAEU,M;QAJhC,YAvwJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAAA,4F;MAvwJI,8D;MAuwJJ,uC;QAkB0B,UAEU,M;QAJhC,YAxwJgB,cAAR,iBAAQ,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O

AyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAkBoB,Q;QAHhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBrtRO,W;QqBstRP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;+FAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arB9uRO,W;QqB+uRP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;+FAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBvwRO,W;QqBwwRP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;+FAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBhyRO,W;QqBiyRP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arB1zRO,W;QqB2zRP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBp1RO,W;QqBq1RP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arB33RO,W;QqB43RP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBh6RO,W;QqBi6RP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBr8RO,W;QqBs8RP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arB19RO,W;QqB29RP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBv/RO,W;QqBw/RP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBpiSO,W;QqBqiSP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBjlSO,W;QqBklSP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBtnSO,W;QqBunSP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arB3pSO,W;QqB4pSP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBhsSO,W;QqBisSP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBvuSO,W;QqBwuSP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arB5wSO,W;QqB6wSP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBjzSO,W;QqBkzSP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arB11SO,W;QqB21SP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBh4SO,W;QqBi4SP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBv6SO,W;QqBw6SP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arB98SO,W;QqB+8SP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBn/SO,W;QqBo/SP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBxhTO,W;QqByhTP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBrjTO,W;QqBsjTP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBlmTO,W;QqBmmTP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBvpTO,W;QqBwpTP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arB5tTO,W;QqB6tTP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBjyTO,W;QqBkyTP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arB32TO,W;QqB42TP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBl7TO,W;QqBm7TP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBz/TO,W;QqB0/TP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBjkUO,W;QqBkkUP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBxoUO,W;QqByoUP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arB3sUO,W;QqB4sUP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBh4UO,W;QqBi4UP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBr5UO,W;QqBs5UP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arB17UO,W;QqB27UP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBl9UO,W;QqBm9UP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBv+UO,W;QqBw+UP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arB5gVO,W;QqB6gVP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBjiVO,W;QqBkiVP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBxjVO,W;QqByjVP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBrlVO,W;QqBslVP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBlnVO,W;QqBmnVP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBvpVO,W;QqBwpVP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arB5rVO,W;QqB6rVP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBjuVO,W;QqBkuVP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBxwVO,W;QqBywVP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arB7yVO,W;QqB8yVP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBl1VO,W;QqBm1VP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arB34VO,W;QqB44VP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBh6VO,W;QqBi6VP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBr7VO,W;QqBs7VP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arB19VO,W;QqB29VP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBh/VO,W;QqBi/VP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;6GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAAkBoB,Q;QAAhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBr/WO,W;QqBs/WP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OA

mB0B,Q;QAHtB,IAAI,mBAAJ,C;UAAe,OAAO,W;QACtB,sBAAkB,sBAAK,CAAL,CAAlB,C;QACoC,kBAAvB,
eAAiB,cAAjB,C;QAA+B,sBAAI,aAAJ,C;QAA5C,arBjiSO,W;QqBkiSe,qB;QAAtB,iBAAc,CAAd,wB;UACI,gBA
Ac,UAAU,KAAV,EAAiB,aAAjB,EAA8B,sBAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAA
O,M;O;KAvBX,C;iHA0BA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAmB0B,Q;QAHtB,IAAI,mBAAJ,C;UAAe,O
AAO,W;QACtB,sBAAkB,sBAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,cAAjB,C;QAA+B,sBAAI,aAAJ,C;
QAA5C,arB3jSO,W;QqB4jSe,qB;QAAtB,iBAAc,CAAd,wB;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B
,sBAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAvBX,C;iHA0BA,yB;MAAA,q
D;MAAA,gE;MAAA,uC;QAmB0B,Q;QAHtB,IAAI,mBAAJ,C;UAAe,OAAO,W;QACtB,sBAAkB,sBAAK,CAAL
,CAAlB,C;QACqC,kBAAxB,eAAkB,cAAlB,C;QAAgC,sBAAI,aAAJ,C;QAA7C,arBrlSO,W;QqBslSe,qB;QAAtB,
iBAAc,CAAd,wB;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,sBAAK,KAAL,CAA9B,C;UACd,MAAO
,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAvBX,C;iFA0BA,yB;MAxZA,gD;MAAA,gE;MAwZA,gD;QAgBW,sB;;U
AtZS,Q;UAHhB,IAAI,mBAAJ,C;YAAe,qBAAO,OAyZH,OAzZG,C;YAAP,uB;WACqB,kBAAvB,eAAa,iBAAO,
CAAP,IAAb,C;UAA+B,sBAwZzB,OAxZyB,C;UAA5C,arBrtRO,W;UqBstRP,kBAuZmB,O;UAtZH,2B;UAAhB,O
AAgB,cAAhB,C;YAAgB,yB;YACZ,cAqZwB,SArZV,CAAU,WAAV,EAAuB,OAAvB,C;YACd,MAAO,WAAI,W
AAJ,C;;UAEX,qBAAO,M;;;QAkZP,yB;O;KAhBJ,C;iFAmBA,yB;MAlZA,gD;MAAA,gE;MAkZA,gD;QAgBW,sB
;;UAhZS,Q;UAHhB,IAAI,mBAAJ,C;YAAe,qBAAO,OAmZH,OAnZG,C;YAAP,uB;WACqB,kBAAvB,eAAa,iBA
AO,CAAP,IAAb,C;UAA+B,sBAkZzB,OAlZyB,C;UAA5C,arB9uRO,W;UqB+uRP,kBAiZmB,O;UAhZH,2B;UAA
hB,OAAgB,cAAhB,C;YAAgB,yB;YACZ,cA+YwB,SA/YV,CAAU,WAAV,EAAuB,OAAvB,C;YACd,MAAO,W
AAI,WAAJ,C;;UAEX,qBAAO,M;;;QA4YP,yB;O;KAhBJ,C;iFAmBA,yB;MA5YA,gD;MAAA,gE;MA4YA,gD;Q
AgBW,sB;;UA1YS,Q;UAHhB,IAAI,mBAAJ,C;YAAe,qBAAO,OA6YH,OA7YG,C;YAAP,uB;WACqB,kBAAvB,
eAAa,iBAAO,CAAP,IAAb,C;UAA+B,sBA4YzB,OA5YyB,C;UAA5C,arBvwRO,W;UqBwwRP,kBA2YmB,O;UA
1YH,2B;UAAhB,OAAgB,cAAhB,C;YAAgB,yB;YACZ,cAyYwB,SAzYV,CAAU,WAAV,EAAuB,OAAvB,C;YA
Cd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAsYP,yB;O;KAhBJ,C;iFAmBA,yB;MAtYA,gD;MAAA,gE;M
AsYA,gD;QAgBW,sB;;UApYS,Q;UAHhB,IAAI,mBAAJ,C;YAAe,qBAAO,OAuYH,OAvYG,C;YAAP,uB;WACq
B,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;UAA+B,sBAsYzB,OAtYyB,C;UAA5C,arBhyRO,W;UqBiyRP,kBAqY
mB,O;UApYH,2B;UAAhB,OAAgB,cAAhB,C;YAAgB,yB;YACZ,cAmYwB,SAnYV,CAAU,WAAV,EAAuB,OA
AvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAgYP,yB;O;KAhBJ,C;+FAmBA,yB;MAhYA,gD;
MAAA,gE;MAllKI,0D;MAk9KJ,gD;QAiBW,6B;;UA9XO,gC;UAHd,IAAI,mBAAJ,C;YAAe,4BAAO,OAiYI,OAj
YJ,C;YAAP,8B;WACqB,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;UAA+B,sBAgYlB,OAhYkB,C;UAA5C,arB1zR
O,W;UqB2zRP,kBA+X0B,O;UA9XZ,OArmKE,YAAR,iBAAQ,C;UAqmKF,mB;UAAA,kB;UAAA,kB;UAAd,0D;
YACI,cA6X+B,SA7XjB,CAAU,KAAV,EAAiB,WAAjB,EAA8B,sBAAK,KAAL,CAA9B,C;YACd,MAAO,WAAI
,WAAJ,C;;UAEX,4BAAO,M;;;QA0XP,gC;O;KAjBJ,C;+FAoBA,yB;MA1XA,gD;MAAA,gE;MApmKI,0D;MA89
KJ,gD;QAiBW,6B;;UAxXO,gC;UAHd,IAAI,mBAAJ,C;YAAe,4BAAO,OA2XI,OA3XJ,C;YAAP,8B;WACqB,kB
AAvB,eAAa,iBAAO,CAAP,IAAb,C;UAA+B,sBA0XlB,OA1XkB,C;UAA5C,arBp1RO,W;UqBq1RP,kBAyX0B,O
;UAxXZ,OAvnKE,YAAR,iBAAQ,C;UAunKF,mB;UAAA,kB;UAAA,kB;UAAd,0D;YACI,cAuX+B,SAvXjB,CA
AU,KAAV,EAAiB,WAAjB,EAA8B,sBAAK,KAAL,CAA9B,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,4BAAO,
M;;;QAoXP,gC;O;KAjBJ,C;+FAoBA,yB;MApXA,gD;MAAA,gE;MAtnKI,0D;MA0+KJ,gD;QAiBW,6B;;UAlXO,
gC;UAHd,IAAI,mBAAJ,C;YAAe,4BAAO,OAqXI,OArXJ,C;YAAP,8B;WACqB,kBAAvB,eAAa,iBAAO,CAAP,I
AAb,C;UAA+B,sBAoXlB,OApXkB,C;UAA5C,arB92RO,W;UqB+2RP,kBAmX0B,O;UAlXZ,OAzoKE,YAAR,iB
AAQ,C;UAyoKF,mB;UAAA,kB;UAAA,kB;UAAd,0D;YACI,cAiX+B,SAjXjB,CAAU,KAAV,EAAiB,WAAjB,E
AA8B,sBAAK,KAAL,CAA9B,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,4BAAO,M;;;QA8WP,gC;O;KAjBJ,C;+F
AoBA,yB;MA9WA,gD;MAAA,gE;MAxoKI,0D;MAs/KJ,gD;QAiBW,6B;;UA5WO,gC;UAHd,IAAI,mBAAJ,C;Y
AAe,4BAAO,OA+WI,OA/WJ,C;YAAP,8B;WACqB,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;UAA+B,sBA8WlB,
OA9WkB,C;UAA5C,arBx4RO,W;UqBy4RP,kBA6W0B,O;UA5WZ,OA3pKE,YAAR,iBAAQ,C;UA2pKF,mB;UA
AA,kB;UAAA,kB;UAAd,0D;YACI,cA2W+B,SA3WjB,CAAU,KAAV,EAAiB,WAAjB,EAA8B,sBAAK,KAAL,C
AA9B,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,4BAAO,M;;;QAwWP,gC;O;KAjBJ,C;mFAoBA,yB;MAAA,wB;
MAAA,sC;QAUoB,Q;QADhB,UAAgB,W;QACA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,MnCvwSiD,
SmCuwSjD,GnCvwS2D,KAAK,GmCuwSzD,SAAS,OAAT,CnCvwSoE,KAAX,IAAf,C;;QmCywSrD,OAAO,G;O;

KAbX,C;mFAgBA,yB;MAAA,wB;MAAA,sC;QAUoB,Q;QADhB,UAAgB,W;QACA,2B;QAAhB,OAAgB,cAAh
B,C;UAAgB,yB;UACZ,MnCvxSiD,SmCuxSjD,GnCvxS2D,KAAK,GmCuxSzD,SAAS,OAAT,CnCvxSoE,KAAX,I
AAf,C;;QmCyxSrD,OAAO,G;O;KAbX,C;mFAgBA,yB;MAAA,wB;MAAA,sC;QAUoB,Q;QADhB,UAAgB,W;Q
ACA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,MnCvySiD,SmCuySjD,GnCvyS2D,KAAK,GmCuySzD,S
AAS,OAAT,CnCvySoE,KAAX,IAAf,C;;QmCyySrD,OAAO,G;O;KAbX,C;mFAgBA,yB;MAAA,wB;MAAA,sC;Q
AUoB,Q;QADhB,UAAgB,W;QACA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,MnCvzSiD,SmCuzSjD,G
nCvzS2D,KAAK,GmCuzSzD,SAAS,OAAT,CnCvzSoE,KAAX,IAAf,C;;QmCyzSrD,OAAO,G;O;KAbX,C;8FAgB
A,+B;MAUoB,Q;MADhB,UAAkB,G;MACF,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,SAAS,O
AAT,C;;MAEX,OAAO,G;K;+FAGX,+B;MAUoB,Q;MADhB,UAAkB,G;MACF,2B;MAAhB,OAAgB,cAAhB,C;
QAAgB,yB;QACZ,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;+FAGX,+B;MAUoB,Q;MADhB,UAAkB,G;MA
CF,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;+FAGX,+B;
MAUoB,Q;MADhB,UAAkB,G;MACF,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,SAAS,OAAT,
C;;MAEX,OAAO,G;K;kFAGX,+B;MAYoB,Q;MADhB,UAAoB,C;MACJ,2B;MAAhB,OAAgB,cAAhB,C;QAAg
B,yB;QACZ,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;mFAGX,+B;MAYoB,Q;MADhB,UAAoB,C;MACJ,2B;
MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;mFAGX,+B;MAYo
B,Q;MADhB,UAAoB,C;MACJ,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,SAAS,OAAT,C;;MAE
X,OAAO,G;K;mFAGX,+B;MAYoB,Q;MADhB,UAAoB,C;MACJ,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;Q
ACZ,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;mFAGX,+B;MAYoB,Q;MADhB,UAAe,C;MACC,2B;MAAhB,
OAAgB,cAAhB,C;QAAgB,yB;QACZ,YAAO,SAAS,OAAT,CAAP,I;;MAEJ,OAAO,G;K;mFAGX,+B;MAYoB,Q;
MADhB,UAAe,C;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,YAAO,SAAS,OAAT,CAAP,I;;MAE
J,OAAO,G;K;mFAGX,+B;MAYoB,Q;MADhB,UAAe,C;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAC
Z,YAAO,SAAS,OAAT,CAAP,I;;MAEJ,OAAO,G;K;mFAGX,+B;MAYoB,Q;MADhB,UAAe,C;MACC,2B;MAAh
B,OAAgB,cAAhB,C;QAAgB,yB;QACZ,YAAO,SAAS,OAAT,CAAP,I;;MAEJ,OAAO,G;K;mFAGX,yB;MAAA,S
AWoB,gB;MAXpB,sC;QAYoB,Q;QADhB,Y;QACgB,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAO,S
AAS,OAAT,CAAP,C;;QAEJ,OAAO,G;O;KAfX,C;mFAkBA,yB;MAAA,SAWoB,gB;MAXpB,sC;QAYoB,Q;QA
DhB,Y;QACgB,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAO,SAAS,OAAT,CAAP,C;;QAEJ,OAAO,
G;O;KAfX,C;mFAkBA,yB;MAAA,SAWoB,gB;MAXpB,sC;QAYoB,Q;QADhB,Y;QACgB,2B;QAAhB,OAAgB,c
AAhB,C;UAAgB,yB;UACZ,cAAO,SAAS,OAAT,CAAP,C;;QAEJ,OAAO,G;O;KAfX,C;mFAkBA,yB;MAAA,SA
WoB,gB;MAXpB,sC;QAYoB,Q;QADhB,Y;QACgB,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAO,SA
AS,OAAT,CAAP,C;;QAEJ,OAAO,G;O;KAfX,C;mFAkBA,yB;MnC5xSA,6B;MmC4xSA,sC;QAaoB,Q;QADhB,U
nC9xSmC,cmC8xSnB,CnC9xSmB,C;QmC+xSnB,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,MnClmTiD,c
mCkmTjD,GnClmT2D,KAAK,GmCkmTzD,SAAS,OAAT,CnClmToE,KAAX,IAAf,C;;QmComTrD,OAAO,G;O;
KAhBX,C;mFAmBA,yB;MnC/ySA,6B;MmC+ySA,sC;QAaoB,Q;QADhB,UnCjzSmC,cmCizSnB,CnCjzSmB,C;Q
mCkzSnB,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,MnCrnTiD,cmCqnTjD,GnCrnT2D,KAAK,GmCqnT
zD,SAAS,OAAT,CnCrnToE,KAAX,IAAf,C;;QmCunTrD,OAAO,G;O;KAhBX,C;mFAmBA,yB;MnCl0SA,6B;Mm
Ck0SA,sC;QAaoB,Q;QADhB,UnCp0SmC,cmCo0SnB,CnCp0SmB,C;QmCq0SnB,2B;QAAhB,OAAgB,cAAhB,C;
UAAgB,yB;UACZ,MnCxoTiD,cmCwoTjD,GnCxoT2D,KAAK,GmCwoTzD,SAAS,OAAT,CnCxoToE,KAAX,IA
Af,C;;QmC0oTrD,OAAO,G;O;KAhBX,C;mFAmBA,yB;MnCr1SA,6B;MmCq1SA,sC;QAaoB,Q;QADhB,UnCv1S
mC,cmCu1SnB,CnCv1SmB,C;QmCw1SnB,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,MnC3pTiD,cmC2p
TjD,GnC3pT2D,KAAK,GmC2pTzD,SAAS,OAAT,CnC3pToE,KAAX,IAAf,C;;QmC6pTrD,OAAO,G;O;KAhBX,
C;mFAmBA,yB;MnBr2SA,+B;MmBq2SA,sC;QAaoB,Q;QADhB,UnBt2SqC,eAAW,oBmBs2S/B,CnBt2S+B,CAA
X,C;QmBu2SrB,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,MnB3qTmD,emB2qTnD,GnB3qT8D,KAAK,
KmB2qT5D,SAAS,OAAT,CnB3qTuE,KAAX,CAAhB,C;;QmB6qTvD,OAAO,G;O;KAhBX,C;mFAmBA,yB;MnB
x3SA,+B;MmBw3SA,sC;QAaoB,Q;QADhB,UnBz3SqC,eAAW,oBmBy3S/B,CnBz3S+B,CAAX,C;QmB03SrB,2B
;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,MnB9rTmD,emB8rTnD,GnB9rT8D,KAAK,KmB8rT5D,SAAS,O
AAT,CnB9rTuE,KAAX,CAAhB,C;;QmBgsTvD,OAAO,G;O;KAhBX,C;mFAmBA,yB;MnB34SA,+B;MmB24SA,
sC;QAaoB,Q;QADhB,UnB54SqC,eAAW,oBmB44S/B,CnB54S+B,CAAX,C;QmB64SrB,2B;QAAhB,OAAgB,cA
AhB,C;UAAgB,yB;UACZ,MnBjtTmD,emBitTnD,GnBjtT8D,KAAK,KmBitT5D,SAAS,OAAT,CnBjtTuE,KAAX,

CAAhB,C;;QmBmtTvD,OAAO,G;O;KAhBX,C;mFAmBA,yB;MnB95SA,+B;MmB85SA,sC;QAaoB,Q;QADhB,UnB/5SqC,eAAW,oBmB+5S/B,CnB/5S+B,CAAX,C;QmBg6SrB,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,MnBpuTmD,emBouTnD,GnBpuT8D,KAAK,KmBouT5D,SAAS,OAAT,CnBpuTuE,KAAX,CAAhB,C;;QmBsuTvD,OAAO,G;O;KAhBX,C;IAmBA,kC;MA2DI,WpBnnTO,MAAO,KoBmnTG,cpBnnTH,EoBikTH,KAkDkB,OpBnnTf,C;MoBonTd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WArDqB,GAqDP,sBAAK,CAAL,CArDO,EAAnB,KAqDqB,CAAM,CAAN,CArDF,CAqDrB,C;;MArDT,OAuDO,I;K;IApDX,kC;MAkEI,WpBtoTO,MAAO,KoBsoTG,cpBtoTH,EoB6kTH,KAyDkB,OpBtoTf,C;MoBuoTd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WA5DuB,GA4DP,4BAAK,CAAL,CA5DO,EAAnB,KA4DqB,CAAM,CAAN,CA5DF,CA4DrB,C;;MA5DT,OA8DO,I;K;IA3DX,kC;MAyEI,WpBzpTO,MAAO,KoBypTG,cpBzpTH,EoBylTH,KAgEkB,OpBzpTf,C;MoB0pTd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAnEuB,GAmEP,4BAAK,CAAL,CAnEO,EAAnB,KAmEqB,CAAM,CAAN,CAnEF,CAmErB,C;;MAnET,OAqEO,I;K;IAlEX,kC;MAgFI,WpB5qTO,MAAO,KoB4qTG,cpB5qTH,EoBqmTH,KAuEkB,OpB5qTf,C;MoB6qTd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WA1EuB,GA0EP,4BAAK,CAAL,CA1EO,EAAnB,KA0EqB,CAAM,CAAN,CA1EF,CA0ErB,C;;MA1ET,OA4EO,I;K;+EAzEX,yB;MAAA,gE;MpB9mTA,iB;MoB8mTA,8C;QAWI,WpBnnTO,MAAO,KoBmnTG,cpBnnTH,EoBmnTH,KAAK,OpBnnTf,C;QoBonTd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpBtnTA,iB;MoBsnTA,8C;QAWI,WpB3nTO,MAAO,KoB2nTG,cpB3nTH,EoB2nTH,KAAK,OpB3nTf,C;QoB4nTd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpB9nTA,iB;MoB8nTA,8C;QAWI,WpBnoTO,MAAO,KoBmoTG,cpBnoTH,EoBmoTH,KAAK,OpBnoTf,C;QoBooTd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpBtoTA,iB;MoBsoTA,8C;QAWI,WpB3oTO,MAAO,KoB2oTG,cpB3oTH,EoB2oTH,KAAK,OpB3oTf,C;QoB4oTd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpB9oTA,iB;MoB8oTA,8C;QAWI,WpBnpTO,MAAO,KoBmpTG,cpBnpTH,EoBmpTH,KAAK,OpBnpTf,C;QoBopTd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpBtpTA,iB;MoBspTA,8C;QAWI,WpB3pTO,MAAO,KoB2pTG,cpB3pTH,EoB2pTH,KAAK,OpB3pTf,C;QoB4pTd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpB9pTA,iB;MoB8pTA,8C;QAWI,WpBnqTO,MAAO,KoBmqTG,cpBnqTH,EoBmqTH,KAAK,OpBnqTf,C;QoBoqTd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpBtqTA,iB;MoBsqTA,8C;QAWI,WpB3qTO,MAAO,KoB2qTG,cpB3qTH,EoB2qTH,KAAK,OpB3qTf,C;QoB4qTd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpB9qTA,iB;MoB8qTA,8C;QAWI,WpBnrTO,MAAO,KoBmrTG,cpBnrTH,EoBmrTH,KAAK,OpBnrTf,C;QoBorTd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpBtrTA,iB;MoBsrTA,8C;QAWI,WpB3rTO,MAAO,KoB2rTG,cpB3rTH,EoB2rTH,KAAK,OpB3rTf,C;QoB4rTd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpB9rTA,iB;MoB8rTA,8C;QAWI,WpBnsTO,MAAO,KoBmsTG,cpBnsTH,EoBmsTH,KAAK,OpBnsTf,C;QoBosTd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpBtsTA,iB;MoBssTA,8C;QAWI,WpB3sTO,MAAO,KoB2sTG,cpB3sTH,EoB2sTH,KAAK,OpB3sTf,C;QoB4sTd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpB9sTA,iB;MoB8sTA,8C;QAWI,WpBntTO,MAAO,KoBmtTG,cpBntTH,EoBmtTH,KAAK,OpBntTf,C;QoBotTd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpBttTA,iB;MoBstTA,8C;QAWI,WpB3tTO,MAAO,KoB2tTG,cpB3tTH,EoB2tTH,KAAK,OpB3tTf,C;QoB4tTd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpB9tTA,iB;MoB8tTA,8C;QAWI,WpBnuTO,MAAO,KoBmuTG,cpBnuTH,EoBmuTH,KAAK,OpBnuTf,C;QoBouTd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpBtuTA,iB;MoBsuTA,8C;QAWI,WpB3uTO,MAAO,KoB2uTG,cpB3uTH,EoB2uTH,KAAK,OpB3uTf,C;QoB4uTd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpB9uTA,iB;MoB8uTA,8C;QAWI,WpBnvTO,MAAO,KoBmvTG,cpBnvTH,EoBmvTH,KAAK,OpBnvTf,C;QoBovTd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpBtvTA,iB;MoBsvTA,8C;QAWI,WpB3vTO,MAAO,KoB2vTG,cpB3vTH,EoB2vTH,KAAK,OpB3vTf,C;QoB4vTd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpB9vTA,iB;MoB8vTA,8C;QAWI,WpBnwTO,MAAO,KoBmwTG,cpBnwTH,EoBmwTH,KAAK,OpBnwTf,C;QoBowTd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpBtwTA,iB;MoBswTA,8C;QAWI,WpB3wTO,MAAO,KoB2wTG,cpB3wTH,EoB2wTH,KAAK,OpB3wTf,C;QoB4wTd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpB9wTA,iB;MoB8wTA,8C;QAWI,WpBnxTO,MAAO,KoBmxTG,cpBnxTH,EoBmxTH,KAAK,OpBnxTf,C;QoBoxTd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpBtxTA,iB;MoBsxTA,8C;QAWI,WpB3xTO,MAAO,KoB2xTG,cpB3xTH,EoB2xTH,KAAK,OpB3xTf,C;QoB4xTd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpB9xTA,iB;MoB8xTA,8C;QAWI,WpBnyTO,MAAO,KoBmyTG,cpBnyTH,EoBmyTH,KAAK,OpBnyTf,C;QoBoyTd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpBtyTA,iB;MoBsyTA,8C;QAWI,WpB3yTO,MAAO,KoB2yTG,cpB3yTH,EoB2yTH,KAAK,OpB3yTf,C;QoB4yTd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpB9yTA,iB;MoB8yTA,8C;QAWI,WpBnzTO,MAAO,KoBmzTG,cpBnzTH,EoBmzTH,KAAK,OpBnzTf,C;QoBozTd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpBtzTA,iB;MoBszTA,8C;QAWI,WpB3zTO,MAAO,KoB2zTG,cpB3zTH,EoB2zTH,KAAK,OpB3zTf,C;QoB4zTd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpB9zTA,iB;MoB8zTA,8C;QAWI,WpBn0TO,MAAO,KoBm0TG,cpBn0TH,EoBm0TH,KAAK,OpBn0Tf,C;QoBo0Td,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpBt0TA,iB;MoBs0TA,8C;QAWI,WpB30TO,MAAO,KoB20TG,cpB30TH,EoB20TH,KAAK,OpB30Tf,C;QoB40Td,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpB90TA,iB;MoB80TA,8C;QAWI,WpBn1TO,MAAO,KoBm1TG,cpBn1TH,EoBm1TH,KAAK,OpBn1Tf,C;QoBo1Td,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpBt1TA,iB;MoBs1TA,8C;QAWI,WpB31TO,MAAO,KoB21TG,cpB31TH,EoB21TH,KAAK,OpB31Tf,C;QoB41Td,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpB91TA,iB;MoB81TA,8C;QAWI,WpBn2TO,MAAO,KoBm2TG,cpBn2TH,EoBm2TH,KAAK,OpBn2Tf,C;QoBo2Td,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpBt2TA,iB;MoBs2TA,8C;QAWI,WpB32TO,MAAO,KoB22TG,cpB32TH,EoB22TH,KAAK,OpB32Tf,C;QoB42Td,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpB92TA,iB;MoB82TA,8C;QAWI,WpBn3TO,MAAO,KoBm3TG,cpBn3TH,EoBm3TH,KAAK,OpBn3Tf,C;QoBo3Td,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpBt3TA,iB;MoBs3TA,8C;QAWI,WpB33TO,MAAO,KoB23TG,cpB33TH,EoB23TH,KAAK,OpB33Tf,C;QoB43Td,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpB93TA,iB;MoB83TA,8C;QAWI,WpBn4TO,MAAO,KoBm4TG,cpBn4TH,EoBm4TH,KAAK,OpBn4Tf,C;QoBo4Td,WAAW,eAAa,IAAb,C;QACX,aAAU,CAV,MAkBI,IAlBJ,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpBt4TA,iB;MoBs4TA,8C;QAWI,WpB34TO,MAAO,KoB24TG,cpB34TH,EoB24TH,KAAK,OpB34Tf,C;QoB44Td,WAAW,eAAa,IAAb,C;QACX,aAAU,CAV,MAkBI,IAlBJ,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpB94TA,iB;MoB84TA,8C;QAWI,WpBn5TO,MAAO,KoBm5TG,cpBn5TH,EoBm5TH,KAAK,OpBn5Tf,C;QoBo5Td,WAAW,eAAa,IAAb,C;QACX,aAAU,CAV,MAkBI,IAlBJ,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpBt5TA,iB;MoBs5TA,8C;QAWI,WpB35TO,MAAO,KoB25TG,cpB35TH,EoB25TH,KAAK,OpB35Tf,C;QoB45Td,WAAW,eAAa,IAAb,C;QACX,aAAU,CAV,MAkBI,IAlBJ,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpB95TA,iB;MoB85TA,8C;QAWI,WpBn6TO,MAAO,KoBm6TG,cpBn6TH,EoBm6TH,KAAK,OpBn6Tf,C;QoBo6Td,WAAW,eAAa,IAAb,C;QACX,aAAU,CAV,MAkBI,IAlBJ,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpBt6TA,iB;MoBs6TA,8C;QAWI,WpB36TO,MAAO,KoB26TG,cpB36TH,EoB26TH,KAAK,OpB36Tf,C;QoB46Td,WAAW,eAAa,IAAb,C;QACX,aAAU,CAV,MAkBI,IAlBJ,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpB96TA,iB;MoB86TA,8C;QAWI,WpBn7TO,MAAO,KoBm7TG,cpBn7TH,EoBm7TH,KAAK,OpBn7Tf,C;QoBo7Td,WAAW,eAAa,IAAb,C;QACX,aAAU,CAV,MAkBI,IAlBJ,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpBt7TA,iB;MoBs7TA,8C;QAWI,WpB37TO,MAAO,KoB27TG,cpB37TH,EoB27TH,KAAK,OpB37Tf,C;QoB47Td,WAAW,eAAa,IAAb,C;QACX,aAAU,CAV,MAkBI,IAlBJ,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpB97TA,iB;MoB87TA,8C;QAWI,WpBn8TO,MAAO,KoBm8TG,cpBn8TH,EoBm8TH,KAAK,OpBn8Tf,C;QoBo8Td,WAAW,eAAa,IAAb,C;QACX,aAAU,CAV,MAkBI,IAlBJ,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpBt8TA,iB;MoBs8TA,8C;QAWI,WpB38TO,MAAO,KoB28TG,cpB38TH,EoB28TH,KAAK,OpB38Tf,C;QoB48Td,WAAW,eAAa,IAAb,C;QACX,aAAU,CAV,MAkBI,IAlBJ,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpB98TA,iB;MoB88TA,8C;QAWI,WpBn9TO,MAAO,KoBm9TG,cpBn9TH,EoBm9TH,KAAK,OpBn9Tf,C;QoBo9Td,WAAW,eAAa,IAAb,C;QACX,aAAU,CAV,MAkBI,IAlBJ,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpBt9TA,iB;MoBs9TA,8C;QAWI,WpB39TO,MAAO,KoB29TG,cpB39TH,EoB29TH,KAAK,OpB39Tf,C;QoB49Td,WAAW,eAAa,IAAb,C;QACX,aAAU,CAV,MAkBI,IAlBJ,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpB99TA,iB;MoB89TA,8C;QAWI,WpBn+TO,MAAO,KoBm+TG,cpBn+TH,EoBm+TH,KAAK,OpBn+Tf,C;QoBo+Td,WAAW,eAAa,IAAb,C;QACX,aAAU,CAV,MAkBI,IAlBJ,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpBt+TA,iB;MoBs+TA,8C;QAWI,WpB3+TO,MAAO,KoB2+TG,cpB3+TH,EoB2+TH,KAAK,OpB3+Tf,C;QoB4+Td,WAAW,eAAa,IAAb,C;QACX,aAAU,CAV,MAkBI,IAlBJ,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpB9+TA,iB;MoB8+TA,8C;QAWI,WpBn/TO,MAAO,KoBm/TG,cpBn/TH,EoBm/TH,KAAK,OpBn/Tf,C;QoBo/Td,WAAW,eAAa,IAAb,C;QACX,aAAU,CAV,MAkBI,IAlBJ,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpBt/TA,iB;MoBs/TA,8C;QAWI,WpB3/TO,MAAO,KoB2/TG,cpB3/TH,EoB2/TH,KAAK,OpB3/Tf,C;QoB4/Td,WAAW,eAAa,IAAb,C;QACX,aAAU,CAV,MAkBI,IAlBJ,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpB9/TA,iB;MoB8/TA,8C;QAWI,WpBngUO,MAAO,KoBmgUG,cpBngUH,EoBmgUH,KAAK,OpBngUf,C;QoBogUd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAV,MAkBI,IAlBJ,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpBtgUA,iB;MoBsgUA,8C;QAWI,WpB3gUO,MAAO,KoB2gUG,cpB3gUH,EoB2gUH,KAAK,OpB3gUf,C;QoB4gUd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAV,MAkBI,IAlBJ,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpB9gUA,iB;MoB8gUA,8C;QAWI,WpBnhUO,MAAO,KoBmhUG,cpBnhUH,EoBmhUH,KAAK,OpBnhUf,C;QoBohUd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAV,MAkBI,IAlBJ,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpBthUA,iB;MoBshUA,8C;QAWI,WpB3hUO,MAAO,KoB2hUG,cpB3hUH,EoB2hUH,KAAK,OpB3hUf,C;QoB4hUd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAV,MAkBI,IAlBJ,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpB9hUA,iB;MoB8hUA,8C;QAWI,WpBniUO,MAAO,KoBmiUG,cpBniUH,EoBmiUH,KAAK,OpBniUf,C;QoBoiUd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAV,MAkBI,IAlBJ,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpBtiUA,iB;MoBsiUA,8C;QAWI,WpB3iUO,MAAO,KoB2iUG,cpB3iUH,EoB2iUH,KAAK,OpB3iUf,C;QoB4iUd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAV,MAkBI,IAlBJ,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpB9iUA,iB;MoB8iUA,8C;QAWI,WpBnjUO,MAAO,KoBmjUG,cpBnjUH,EoBmjUH,KAAK,OpBnjUf,C;QoBojUd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAV,MAkBI,IAlBJ,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpBtjUA,iB;MoBsjUA,8C;QAWI,WpB3jUO,MAAO,KoB2jUG,cpB3jUH,EoB2jUH,KAAK,OpB3jUf,C;QoB4jUd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAV,MAkBI,IAlBJ,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpB9jUA,iB;MoB8jUA,8C;QAWI,WpBnkUO,MAAO,KoBmkUG,cpBnkUH,EoBmkUH,KAAK,OpBnkUf,C;QoBokUd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAV,MAkBI,IAlBJ,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpBtkUA,iB;MoBskUA,8C;QAWI,WpB3kUO,MAAO,KoB2kUG,cpB3kUH,EoB2kUH,KAAK,OpB3kUf,C;QoB4kUd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAV,MAkBI,IAlBJ,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpB9kUA,iB;MoB8kUA,8C;QAWI,WpBnlUO,MAAO,KoBmlUG,cpBnlUH,EoBmlUH,KAAK,OpBnlUf,C;QoBolUd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAV,MAkBI,IAlBJ,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpBtlUA,iB;MoBslUA,8C;QAWI,WpB3lUO,MAAO,KoB2lUG,cpB3lUH,EoB2lUH,KAAK,OpB3lUf,C;QoB4lUd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAV,MAkBI,IAlBJ,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpB9lUA,iB;MoB8lUA,8C;QAWI,WpBnmUO,MAAO,KoBmmUG,cpBnmUH,EoBmmUH,KAAK,OpBnmUf,C;QoBomUd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAV,MAkBI,IAlBJ,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpBtmUA,iB;MoBsmUA,8C;QAWI,WpB3mUO,MAAO,KoB2mUG,cpB3mUH,EoB2mUH,KAAK,OpB3mUf,C;QoB4mUd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAV,MAkBI,IAlBJ,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpB9mUA,iB;MoB8mUA,8C;QAWI,WpBnnUO,MAAO,KoBmnUG,cpBnnUH,EoBmnUH,KAAK,OpBnnUf,C;QoBonUd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAV,MAkBI,IAlBJ,M;UACI,IAAK,WAAL,IAAK,CAAL,CAAK,EAAL,KAAK,CAAM,CAAN,CAAL,C;;QAAT,OAAS,I;O;KAhBb,C;+EAmBI,yB;MAAA,gE;MpBtnUA,iB;MoBsnUA,8C;QAWI,WpB3nUO,MAAO,KoB2nUG,cpB3nUH,EoB

ACpB,IAAK,WAAI,UAAU,uBAAK,UAAL,EAAK,kBAAL,UAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;
KAlBX,C;+EAqBA,yB;MAAA,kF;MAAA,gE;MpBpxTA,iB;MoBoxTA,8C;QAcoB,UAEY,M;QAL5B,gBAAgB,c;
QAChB,WAAW,epB1xTJ,MAAO,KoB0xTsB,wBAAN,KAAM,EAAwB,EAAxB,CpB1xTtB,EoB0xTmD,SpB1xT
nD,CoB0xTH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,
C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,uBAAK,UAAL,EAAK,kBAAL,UAAV,EAAqB,OAArB,CAAJ,C;;QA
ET,OAAO,I;O;KAlBX,C;8EAqBA,yB;MAAA,kF;MAAA,gE;MpBzyTA,iB;MoByyTA,8C;QAcoB,UAEY,M;QAL
5B,gBAAgB,c;QAChB,WAAW,epB/yTJ,MAAO,KoB+yTsB,wBAAN,KAAM,EAAwB,EAAxB,CpB/yTtB,EoB+y
TmD,SpB/yTnD,CoB+yTH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,K
AAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,uBAAK,UAAL,EAAK,kBAAL,UAAV,EAAqB,OAArB,
CAAJ,C;;QAET,OAAO,I;O;KAlBX,C;IAqBA,kC;MA2DI,WpBn3TO,MAAO,KoBm3TG,cpBn3TH,EoBi0TH,KA
kDkB,KpBn3Tf,C;MoBo3Td,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAr
DqB,GAqDP,sBAAK,CAAL,CArDO,EAAnB,KAqDqB,aAAM,CAAN,CArDF,CAqDrB,C;;MArDT,OAuDO,I;K;I
ApDX,kC;MAkEI,WpBt4TO,MAAO,KoBs4TG,cpBt4TH,EoB60TH,KAyDkB,KpBt4Tf,C;MoBu4Td,WAAW,iBA
Aa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WA5DqB,GA4DP,sBAAK,CAAL,CA5DO,EA
AnB,KA4DqB,aAAM,CAAN,CA5DF,CA4DrB,C;;MA5DT,OA8DO,I;K;IA3DX,kC;MAyEI,WpBz5TO,MAAO,K
oBy5TG,cpBz5TH,EoBy1TH,KAgEkB,KpBz5Tf,C;MoB05Td,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MA
AkB,IAAlB,M;QACI,IAAK,WAnEqB,GAmEP,sBAAK,CAAL,CAnEO,EAAnB,KAmEqB,aAAM,CAAN,CAnEF,
CAmErB,C;;MAnET,OAqEO,I;K;IAlEX,kC;MAgFI,WpB56TO,MAAO,KoB46TG,cpB56TH,EoBq2TH,KAuEkB,
KpB56Tf,C;MoB66Td,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WA1EqB,
GA0EP,sBAAK,CAAL,CA1EO,EAAnB,KA0EqB,aAAM,CAAN,CA1EF,CA0ErB,C;;MA1ET,OA4EO,I;K;+EAzE
X,yB;MAAA,gE;MpB92TA,iB;MoB82TA,8C;QAWI,WpBn3TO,MAAO,KoBm3TG,cpBn3TH,EoBm3TS,KAAM,
KpBn3Tf,C;QoBo3Td,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAA
U,sBAAK,CAAL,CAAV,EAAmB,kBAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAhBX,C;+EAmBA,yB;
MAAA,gE;MpBj4TA,iB;MoBi4TA,8C;QAWI,WpBt4TO,MAAO,KoBs4TG,cpBt4TH,EoBs4TS,KAAM,KpBt4Tf,
C;QoBu4Td,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,sBAAK,
CAAL,CAAV,EAAmB,kBAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAhBX,C;+EAmBA,yB;MAAA,gE;
MpBp5TA,iB;MoBo5TA,8C;QAWI,WpBz5TO,MAAO,KoBy5TG,cpBz5TH,EoBy5TS,KAAM,KpBz5Tf,C;QoB0
5Td,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,sBAAK,CAAL,
CAAV,EAAmB,kBAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAhBX,C;+EAmBA,yB;MAAA,gE;MpBv
6TA,iB;MoBu6TA,8C;QAWI,WpB56TO,MAAO,KoB46TG,cpB56TH,EoB46TS,KAAM,KpB56Tf,C;QoB66Td,W
AAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,sBAAK,CAAL,CAAV,
EAAmB,kBAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAhBX,C;IAmBA,2B;MAQoB,Q;MADhB,UAAg
B,W;MAChB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,MnCjnUiD,SmCinUjD,GnCjnU2D,KAAK,
GmCinUzD,OnCjnUoE,KAAX,IAAf,C;;MmCmnUrD,OAAO,G;K;IAGX,2B;MAQoB,Q;MADhB,UAAiB,2B;MA
CjB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,MnB5nUmD,UmB4nUnD,GnB5nU8D,KAAK,KmB4
nU5D,OnB5nUuE,KAAX,CAAhB,C;;MmB8nUvD,OAAO,G;K;IAGX,2B;MAQoB,Q;MADhB,UAAgB,W;MACh
B,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,MnC7oUiD,SmC6oUjD,GnC7oU2D,KAAK,GAAW,CD
2O5C,SoCk6TxB,OpCl6TkC,KAAL,GAAiB,GAAtB,CC3O4C,MAAX,IAAf,C;;MmC+oUrD,OAAO,G;K;IAGX,2
B;MAQoB,Q;MADhB,UAAgB,W;MAChB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,MnC3pUiD,S
mC2pUjD,GnC3pU2D,KAAK,GAAW,CC4O5C,SkC+6TxB,OlC/6TkC,KAAL,GAAiB,KAAtB,CD5O4C,MAAX,I
AAf,C;;MmC6pUrD,OAAO,G;K;+EAGX,yB;MAAA,0C;MnCx2TA,6B;MmCw2TA,4B;QAAOI,OnCr2TmC,cmCq
2TpB,IAAR,iBAAQ,CnCr2ToB,C;O;KmC81TvC,C;+EAUA,yB;MAAA,0C;MnBn2TA,+B;MmBm2TA,4B;QAOI,
OnBh2TsC,emBg2TvB,IAAR,iBAAQ,CnBh2TuB,C;O;KmBy1T1C,C;+EAUA,yB;MAAA,sC;MnC53TA,6B;Mm
C43TA,iBAOiB,yB;QpCz9Tb,6B;eoCy9Ta,c;UAAE,OpCh9ToB,coCg9TpB,EpCh9T8B,KAAL,GAAiB,GAAtB,C;
S;OoCg9TtB,C;MAPjB,4B;QA7iBoB,Q;QADhB,UnCp0SmC,cmCo0SnB,CnCp0SmB,C;QmCq0SnB,2B;QAAhB,
OAAgB,cAAhB,C;UAAgB,yB;UACZ,MnCxoTiD,cmCwoTjD,GnCxoT2D,KAAK,GAAW,CD2O5C,coC65Sf,Op
C75SyB,KAAL,GAAiB,GAAtB,CC3O4C,MAAX,IAAf,C;;QmC2rUrD,OAjjBO,G;O;KA0iBX,C;+EAUA,yB;MA
AA,sC;MnCt4TA,6B;MmCs4TA,iBAOiB,yB;QlCl+Tb,6B;ekCk+Ta,c;UAAE,OlCz9ToB,ckCy9TpB,ElCz9T8B,K

AAL,GAAiB,KAAtB,C;S;OkCy9TtB,C;MAPjB,4B;QApiBoB,Q;QADhB,UnCv1SmC,cmCu1SnB,CnCv1SmB,C;
QmCw1SnB,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,MnC3pTiD,cmC2pTjD,GnC3pT2D,KAAK,GAA
W,CC4O5C,ckC+6Sf,OlC/6SyB,KAAL,GAAiB,KAAtB,CD5O4C,MAAX,IAAf,C;;QmCqsUrD,OAxiBO,G;O;KAi
iBX,C;IC3vUA,mC;MAQoB,UACL,M;MAHX,aAAa,gBAAW,cAAX,C;MACb,YAAY,C;MACI,2B;MAAhB,OA
AgB,cAAhB,C;QAAgB,yB;QACZ,oBAAO,cAAP,EAAO,sBAAP,WAAkB,OAAlB,C;;MACJ,OAAO,M;K;IAGX,
kC;MAQoB,UACL,M;MAHX,aAAa,eAAU,cAAV,C;MACb,YAAY,C;MACI,2B;MAAhB,OAAgB,cAAhB,C;QA
AgB,yB;QACZ,oBAAO,cAAP,EAAO,sBAAP,WAAkB,OAAlB,C;;MACJ,OAAO,M;K;IAGX,mC;MAQoB,UACL
,M;MAHX,aAAa,gBAAW,cAAX,C;MACb,YAAY,C;MACI,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,o
BAAO,cAAP,EAAO,sBAAP,WAAkB,OAAlB,C;;MACJ,OAAO,M;K;IAGX,oC;MAQoB,UACL,M;MAHX,aAAa,
iBAAY,cAAZ,C;MACb,YAAY,C;MACI,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,oBAAO,cAAP,EAA
O,sBAAP,WAAkB,OAAlB,C;;MACJ,OAAO,M;K;IAGX,2B;MAQoB,Q;MADhB,UAAgB,W;MACA,2B;MAAhB
,OAAgB,cAAhB,C;QAAgB,yB;QACZ,MpCAiD,SoCAjD,GpCA2D,KAAK,GoCAzD,OpCAoE,KAAX,IAAf,C;;M
oCErD,OAAO,G;K;IAGX,2B;MAQoB,Q;MADhB,UAAiB,2B;MACD,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB
;QACZ,MpBXmD,UoBWnD,GpBX8D,KAAK,KoBW5D,OpBXuE,KAAX,CAAhB,C;;MoBavD,OAAO,G;K;IAG
X,2B;MAQoB,Q;MADhB,UAAgB,W;MACA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,MpC5BiD,SoC4
BjD,GpC5B2D,KAAK,GAAW,CD2O5C,SqC/MxB,OrC+MkC,KAAL,GAAiB,GAAtB,CC3O4C,MAAX,IAAf,C;;
MoC8BrD,OAAO,G;K;IAGX,2B;MAQoB,Q;MADhB,UAAgB,W;MACA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB
,yB;QACZ,MpC1CiD,SoC0CjD,GpC1C2D,KAAK,GAAW,CC4O5C,SmClMxB,OnCkMkC,KAAL,GAAiB,KAAt
B,CD5O4C,MAAX,IAAf,C;;MoC4CrD,OAAO,G;K;IC3GX,wB;MAMI,OrCuCkE,YqCvCvD,CrCuCwE,KAAjB,E
qCvClD,CrCuC+E,KAA7B,CqCvCvD,KAAJ,GAAY,CAAZ,GAAmB,C;K;IAG9B,wB;MAMI,OrBsCmE,aqBtCxD
,CrBsC0E,KAAlB,EqBtCnD,CrBsCiF,KAA9B,CqBtCxD,KAAJ,GAAY,CAAZ,GAAmB,C;K;IAG9B,wB;MAMI,
OtCKgF,0BsCLrE,CtCgP2B,KAAL,GAAiB,GA3O8B,EsCLhE,CtCgPsB,KAAL,GAAiB,GA3O8B,CsCLrE,KAAJ,
GAAY,CAAZ,GAAmB,C;K;IAG9B,wB;MAMI,OpCIiF,0BoCJtE,CpCwO2B,KAAL,GAAiB,KApO+B,EoCJjE,Cp
CwOsB,KAAL,GAAiB,KApO+B,CoCJtE,KAAJ,GAAY,CAAZ,GAAmB,C;K;mFAG9B,yB;MAAA,8C;MAAA,0
B;QAOI,OAAO,MAAM,CAAN,EAAS,MAAM,CAAN,EAAS,CAAT,CAAT,C;O;KAPX,C;mFAUA,yB;MAAA,8
C;MAAA,0B;QAOI,OAAO,MAAM,CAAN,EAAS,MAAM,CAAN,EAAS,CAAT,CAAT,C;O;KAPX,C;mFAUA,y
B;MAAA,8C;MAAA,0B;QAOI,OAAO,MAAM,CAAN,EAAS,MAAM,CAAN,EAAS,CAAT,CAAT,C;O;KAPX,C
;mFAUA,yB;MAAA,8C;MAAA,0B;QAOI,OAAO,MAAM,CAAN,EAAS,MAAM,CAAN,EAAS,CAAT,CAAT,C;
O;KAPX,C;IAUA,4B;MAOc,Q;MADV,UAAU,C;MACA,uB;MAAV,OAAU,cAAV,C;QAAU,mB;QAAO,MAAM
,SAAM,GAAN,EAAW,CAAX,C;;MACvB,OAAO,G;K;IAGX,4B;MAOc,Q;MADV,UAAU,C;MACA,uB;MAAV,
OAAU,cAAV,C;QAAU,mB;QAAO,MAAM,SAAM,GAAN,EAAW,CAAX,C;;MACvB,OAAO,G;K;IAGX,4B;M
AOc,Q;MADV,UAAU,C;MACA,uB;MAAV,OAAU,cAAV,C;QAAU,mB;QAAO,MAAM,SAAM,GAAN,EAAW,
CAAX,C;;MACvB,OAAO,G;K;IAGX,4B;MAOc,Q;MADV,UAAU,C;MACA,uB;MAAV,OAAU,cAAV,C;QAAU
,mB;QAAO,MAAM,SAAM,GAAN,EAAW,CAAX,C;;MACvB,OAAO,G;K;IAGX,wB;MAMI,OrCjFkE,YqCiFvD
,CrCjFwE,KAAjB,EqCiFlD,CrCjF+E,KAA7B,CqCiFvD,KAAJ,GAAY,CAAZ,GAAmB,C;K;IAG9B,wB;MAMI,O
rBlFmE,aqBkFxD,CrBlF0E,KAAlB,EqBkFnD,CrBlFiF,KAA9B,CqBkFxD,KAAJ,GAAY,CAAZ,GAAmB,C;K;IA
G9B,wB;MAMI,OtCnHgF,0BsCmHrE,CtCwH2B,KAAL,GAAiB,GA3O8B,EsCmHhE,CtCwHsB,KAAL,GAAiB,
GA3O8B,CsCmHrE,KAAJ,GAAY,CAAZ,GAAmB,C;K;IAG9B,wB;MAMI,OpCpHiF,0BoCoHtE,CpCgH2B,KAA
L,GAAiB,KApO+B,EoCoHjE,CpCgHsB,KAAL,GAAiB,KApO+B,CoCoHtE,KAAJ,GAAY,CAAZ,GAAmB,C;K;
mFAG9B,yB;MAAA,8C;MAAA,0B;QAOI,OAAO,MAAM,CAAN,EAAS,MAAM,CAAN,EAAS,CAAT,CAAT,C;
O;KAPX,C;mFAUA,yB;MAAA,8C;MAAA,0B;QAOI,OAAO,MAAM,CAAN,EAAS,MAAM,CAAN,EAAS,CAA
T,CAAT,C;O;KAPX,C;mFAUA,yB;MAAA,8C;MAAA,0B;QAOI,OAAO,MAAM,CAAN,EAAS,MAAM,CAAN,
EAAS,CAAT,CAAT,C;O;KAPX,C;mFAUA,yB;MAAA,8C;MAAA,0B;QAOI,OAAO,MAAM,CAAN,EAAS,MA
AM,CAAN,EAAS,CAAT,CAAT,C;O;KAPX,C;IAUA,4B;MAOc,Q;MADV,UAAU,C;MACA,uB;MAAV,OAAU,
cAAV,C;QAAU,mB;QAAO,MAAM,SAAM,GAAN,EAAW,CAAX,C;;MACvB,OAAO,G;K;IAGX,4B;MAOc,Q;
MADV,UAAU,C;MACA,uB;MAAV,OAAU,cAAV,C;QAAU,mB;QAAO,MAAM,SAAM,GAAN,EAAW,CAAX,
C;;MACvB,OAAO,G;K;IAGX,4B;MAOc,Q;MADV,UAAU,C;MACA,uB;MAAV,OAAU,cAAV,C;QAAU,mB;Q
AAO,MAAM,SAAM,GAAN,EAAW,CAAX,C;;MACvB,OAAO,G;K;IAGX,4B;MAOc,Q;MADV,UAAU,C;MAC

A,uB;MAAV,OAAU,cAAV,C;QAAU,mB;QAAO,MAAM,SAAM,GAAN,EAAW,CAAX,C;;MACvB,OAAO,G;K
;gFC7OX,yB;MAAA,mC;MAAA,2C;MAAA,4B;QASI,OAAO,kBAAO,cAAP,C;O;KATX,C;gFAYA,yB;MAAA,
mC;MAAA,2C;MAAA,4B;QASI,OAAO,kBAAO,cAAP,C;O;KATX,C;IAYA,sC;;QASQ,OAAc,WAAP,MAAO,E
AAS,SAAT,C;;QAChB,+C;UACE,MAAM,2BAAuB,CAAE,QAAzB,C;;UAHV,O;;K;IAOJ,sC;;QASQ,OAAc,YA
AP,MAAO,EAAU,SAAV,C;;QAChB,+C;UACE,MAAM,2BAAuB,CAAE,QAAzB,C;;UAHV,O;;K;4FAOJ,yB;M
AAA,mC;MAAA,uD;MAAA,4B;QAOI,OAAO,wBAAa,cAAb,C;O;KAPX,C;4FAUA,yB;MAAA,mC;MAAA,uD;
MAAA,4B;QAOI,OAAO,wBAAa,cAAb,C;O;KAPX,C;IAUA,4C;MAMI,IAAI,mBAAJ,C;QACI,OAAO,I;MACX,
OAAc,WAAP,MAAO,EAAS,SAAT,C;K;IAGlB,4C;MAMI,IAAI,mBAAJ,C;QACI,OAAO,I;MACX,OAAc,YAAP
,MAAO,EAAU,SAAV,C;K;oFAGlB,8B;MASI,OAAO,WAAW,IAAX,IAAmB,2BAAS,OAAT,C;K;oFAG9B,8B;
MASI,OAAO,WAAW,IAAX,IAAmB,2BAAS,OAAT,C;K;IAG9B,uC;MAMI,OAAO,2BvC4K4B,SuC5KnB,KvC4
K6B,KAAL,GAAAiB,GAAAtB,CuC5K5B,C;K;IAGX,uC;MAMI,OAAO,2BvC6K8B,UAAW,oBuC7KhC,KvC6K2B,
KAAK,CAAL,UAAN,CuC7K9B,C;K;IAGX,uC;MAMI,OAAO,2BtCwL8B,UAAW,oBsCxLhC,KtCwL2B,KAAK,
CAAL,iBAAN,CsCxL9B,C;K;IAGX,uC;MAMY,Q;MAAD,cAAC,OtBqF4C,UsBrF5C,KtBqFkD,yBsBrFxC,EtBq
FwC,CAAN,CsBrF7C,wBAA8B,2BAA9B,Q;MAAA,W;QAAqC,oCtCoPR,SsCpPiB,KtB6KlB,KhBuEW,QAAV,C
sCpPQ,C;OAA5C,a;K;IAGJ,uC;MAMI,OAAO,2BrCyI4B,SqCzInB,KrCyI6B,KAAL,GAAAiB,KAAtB,CqCzI5B,C;
K;IAGX,uC;MAMI,OAAO,2BrC0I8B,UAAW,oBqC1IhC,KrC0I2B,KAAK,CAAL,YAAN,CqC1I9B,C;K;IAGX,k
C;MASI,OAAO,uCAAgB,yBvCmHY,SuCnHI,SvCmHM,KAAL,GAAAiB,GAAAtB,CuCnHZ,EvCmHY,SuCnHmB,E
vCmHT,KAAL,GAAAiB,GAAAtB,CuCnHZ,EAA4C,EAA5C,C;K;IAG3B,kC;MASI,OAAO,uCAAgB,yBAAgB,SAA
hB,EAAsB,EAAtB,EAA0B,EAA1B,C;K;IAG3B,kC;MASI,OAAO,wCAAiB,yBAAgB,SAAhB,EAAsB,EAAtB,M;
K;IAG5B,kC;MASI,OAAO,uCAAgB,yBrCgFY,SqChFI,SrCgFM,KAAL,GAAAiB,KAAtB,CqChFZ,ErCgFY,SqChF
mB,ErCgFT,KAAL,GAAAiB,KAAtB,CqChFZ,EAA4C,EAA5C,C;K;IAG3B,gC;MAMI,OAAO,uCAAgB,yBAAgB,
cAAhB,EAAsB,eAAtB,EAA6B,CAAC,cAAD,IAA7B,C;K;IAG3B,gC;MAMI,OAAO,wCAAiB,yBAAgB,cAAhB,
EAAsB,eAAtB,EAA8B,cAAD,aAA7B,C;K;IAG5B,iC;MAMI,oBAAoB,OAAO,CAA3B,EAA8B,IAA9B,C;MAC
A,OAAO,uCAAgB,yBAAgB,eAAhB,EAAuB,cAAvB,EAAiC,SAAK,KAAL,GAAY,CAAhB,GAAmB,IAAnB,GA
A6B,CAAC,IAAD,IAA1D,C;K;IAG3B,iC;MAMI,oBAAoB,kBAAO,CAA3B,EAA8B,IAA9B,C;MACA,OAAO,w
CAAiB,yBAAgB,eAAhB,EAAuB,cAAvB,EAAiC,SAAK,KAAL,cAAY,CAAhB,GAAmB,IAAnB,GAA8B,IAAD,
aAA1D,C;K;IAG5B,iC;MAQI,IvC/OgF,0BuC+O5E,EvCJkC,KAAL,GAAAiB,GA3O8B,EuC+OtE,6BAAM,UvCJsB
,KAAL,GAAAiB,GA3O8B,CuC+O5E,KAAJ,C;QAA2B,OAAO,iCAAU,M;MAChC,WvC6BuB,SuC7B5B,SvC6Bs
C,KAAL,GAAAiB,GAAAtB,C;MuC7BV,YAAK,W;MAA9B,OtCjD6D,oBAhJP,SAAU,CD8N7B,SuC7BV,EvC6BoB
,KAAL,GAAAiB,GAAAtB,CC9N6B,MAAK,GDAK,KCAO,KAAZ,IAAf,CAgJO,C;K;IsCoDjE,iC;MAQI,ItC3OkE,Y
sC2O9D,EtC3O+E,KAAjB,EsC2OxD,4BAAK,UtC3OgF,KAA7B,CsC2O9D,KAAJ,C;QAA0B,OAAO,iCAAU,M;
MAC3C,OtC7D6D,csC6DtD,StC7DsD,EAhJP,SsC6MtC,EtC7MgD,KAAK,GAAY,CsC6M5D,WtC7M4D,MAAZ,
IAAf,CAgJO,C;K;IsCgEjE,iC;MAQI,ItB/OmE,asB+O/D,EtB/OiF,KAAlB,EsB+OzD,6BAAM,UtB/OiF,KAA9B,Cs
B+O/D,KAAJ,C;QAA2B,OAAO,kCAAW,M;MAC7C,OtBzE+D,iBsByExD,StBzEwD,EA7IP,UsBsNxC,EtBtNmD
,KAAK,UAAY,ChByP/C,UAAW,oBAAL,CsCnCtB,WtCmCsB,MAAK,CAAL,iBAAN,CgBzP+C,MAAZ,CAAhB
,CA6IO,C;K;IsB4EnE,iC;MAQI,IrC3QiF,0BqC2Q7E,ErCvCkC,KAAL,GAAAiB,KApO+B,EqC2QvE,8BAAO,UrC
vCqB,KAAL,GAAAiB,KApO+B,CqC2Q7E,KAAJ,C;QAA4B,OAAO,iCAAU,M;MACjC,WrCNuB,SqCM5B,SrCNs
C,KAAL,GAAAiB,KAAtB,C;MqCMV,YAAK,W;MAA9B,OtCrF6D,oBAhJP,SAAU,CC+N7B,SqCMV,ErCNoB,K
AAL,GAAAiB,KAAtB,CD/N6B,MAAK,GCAK,KDAO,KAAZ,IAAf,CAgJO,C;K;IsCwFjE,kD;MAUI,OtCjRkE,Ys
CiRvD,StCjRwE,KAAjB,EsCiRhD,YtCjR6E,KAA7B,CsCiRvD,IAAJ,GAAAyB,YAAAzB,GAA2C,S;K;IAGtD,kD;M
AUI,OtBtRmE,asBsRxD,StBtR0E,KAAlB,EsBsRjD,YtBtR+E,KAA9B,CsBsRxD,IAAJ,GAAAyB,YAAAzB,GAA2C,
S;K;IAGtD,kD;MAUI,OvC3TgF,0BuC2TrE,SvChF2B,KAAL,GAAAiB,GA3O8B,EuC2T9D,YvChFoB,KAAL,GA
AiB,GA3O8B,CuC2TrE,IAAJ,GAAAyB,YAAAzB,GAA2C,S;K;IAGtD,kD;MAUI,OrChUiF,0BqCgUtE,SrC5F2B,KA
AL,GAAAiB,KApO+B,EqCgU/D,YrC5FoB,KAAL,GAAAiB,KApO+B,CqCgUtE,IAAJ,GAAAyB,YAAAzB,GAA2C,S;
K;IAGtD,iD;MAUI,OtCrUkE,YsCqUvD,StCrUwE,KAAjB,EsCqUhD,YtCrU6E,KAA7B,CsCqUvD,IAAJ,GAAAyB,
YAAzB,GAA2C,S;K;IAGtD,iD;MAUI,OtB1UmE,asB0UxD,StB1U0E,KAAlB,EsB0UjD,YtB1U+E,KAA9B,CsB0
UxD,IAAJ,GAAAyB,YAAAzB,GAA2C,S;K;IAGtD,iD;MAUI,OvC/WgF,0BuC+WrE,SvCpI2B,KAAL,GAAAiB,GA3
O8B,EuC+W9D,YvCpIoB,KAAL,GAAAiB,GA3O8B,CuC+WrE,IAAJ,GAAAyB,YAAAzB,GAA2C,S;K;IAGtD,iD;M

AUI,OrCpXiF,0BqCoXtE,SrChJ2B,KAAL,GAAiB,KApO+B,EqCoX/D,YrChJoB,KAAL,GAAiB,KApO+B,CqCo
XtE,IAAJ,GAAyB,YAAzB,GAA2C,S;K;IAGtD,4D;MAUI,ItCzXkE,YsCyX9D,YtCzX+E,KAAjB,EsCyX/C,YtCz
X4E,KAA7B,CsCyX9D,IAAJ,C;QAAiC,MAAM,gCAAyB,oDAAiD,YAAjD,8BAAoF,YAApF,MAAzB,C;MACv
C,ItC1XkE,YsC0X9D,StC1X+E,KAAjB,EsC0XvD,YtC1XoF,KAA7B,CsC0X9D,IAAJ,C;QAAyB,OAAO,Y;MAC
hC,ItC3XkE,YsC2X9D,StC3X+E,KAAjB,EsC2XvD,YtC3XoF,KAA7B,CsC2X9D,IAAJ,C;QAAyB,OAAO,Y;MA
ChC,OAAO,S;K;IAGX,4D;MAUI,ItBjYmE,asBiY/D,YtBjYiF,KAAlB,EsBiYhD,YtBjY8E,KAA9B,CsBiY/D,IAA
J,C;QAAiC,MAAM,gCAAyB,oDAAiD,YAAjD,8BAAoF,YAApF,MAAzB,C;MACvC,ItBlYmE,asBkY/D,StBlYiF
,KAAlB,EsBkYxD,YtBlYsF,KAA9B,CsBkY/D,IAAJ,C;QAAyB,OAAO,Y;MAChC,ItBnYmE,asBmY/D,StBnYiF,
KAAlB,EsBmYxD,YtBnYsF,KAA9B,CsBmY/D,IAAJ,C;QAAyB,OAAO,Y;MAChC,OAAO,S;K;IAGX,4D;MAU
I,IvCzagF,0BuCya5E,YvC9LkC,KAAL,GAAiB,GA3O8B,EuCya7D,YvC9LmB,KAAL,GAAiB,GA3O8B,CuCya5
E,IAAJ,C;QAAiC,MAAM,gCAAyB,oDAAiD,YAAjD,8BAAoF,YAApF,MAAzB,C;MACvC,IvC1agF,0BuC0a5E,
SvC/LkC,KAAL,GAAiB,GA3O8B,EuC0arE,YvC/L2B,KAAL,GAAiB,GA3O8B,CuC0a5E,IAAJ,C;QAAyB,OAA
O,Y;MAChC,IvC3agF,0BuC2a5E,SvChMkC,KAAL,GAAiB,GA3O8B,EuC2arE,YvChM2B,KAAL,GAAiB,GA3O
8B,CuC2a5E,IAAJ,C;QAAyB,OAAO,Y;MAChC,OAAO,S;K;IAGX,4D;MAUI,IrCjbiF,0BqCib7E,YrC7MkC,KA
AL,GAAiB,KApO+B,EqCib9D,YrC7MmB,KAAL,GAAiB,KApO+B,CqCib7E,IAAJ,C;QAAiC,MAAM,gCAAyB,
oDAAiD,YAAjD,8BAAoF,YAApF,MAAzB,C;MACvC,IrClbiF,0BqCkb7E,SrC9MkC,KAAL,GAAiB,KApO+B,E
qCkbtE,YrC9M2B,KAAL,GAAiB,KApO+B,CqCkb7E,IAAJ,C;QAAyB,OAAO,Y;MAChC,IrCnbiF,0BqCmb7E,Sr
C/MkC,KAAL,GAAiB,KApO+B,EqCmbtE,YrC/M2B,KAAL,GAAiB,KApO+B,CqCmb7E,IAAJ,C;QAAyB,OAA
O,Y;MAChC,OAAO,S;K;IAGX,uC;MAcW,Q;MAJP,IAAI,8CAAJ,C;QACI,OAAY,WAAL,SAAK,EAAe,KAAf,C
;OAEhB,IAAI,KAAM,UAAV,C;QAAqB,MAAM,gCAAyB,4CAAyC,KAAzC,MAAzB,C;MAEvB,ItC9b8D,YsC8
b9D,StC9b+E,KAAjB,EsC8bvD,KAAM,MtC9b8E,KAA7B,CsC8b9D,K;QAA4B,OAAN,KAAM,M;;QAC5B,ItC/b
8D,YsC+b9D,StC/b+E,KAAjB,EsC+bvD,KAAM,atC/b8E,KAA7B,CsC+b9D,K;UAAmC,OAAN,KAAM,a;;UAC3
B,gB;;MAHZ,W;K;IAOJ,uC;MAcW,Q;MAJP,IAAI,8CAAJ,C;QACI,OAAY,WAAL,SAAK,EAAgB,KAAhB,C;O
AEhB,IAAI,KAAM,UAAV,C;QAAqB,MAAM,gCAAyB,4CAAyC,KAAzC,MAAzB,C;MAEvB,ItB3c+D,asB2c/D
,StB3ciF,KAAlB,EsB2cxD,KAAM,MtB3cgF,KAA9B,CsB2c/D,K;QAA4B,OAAN,KAAM,M;;QAC5B,ItB5c+D,as
B4c/D,StB5ciF,KAAlB,EsB4cxD,KAAM,atB5cgF,KAA9B,CsB4c/D,K;UAAmC,OAAN,KAAM,a;;UAC3B,gB;;M
AHZ,W;K;IC/fJ,2B;MAUoB,Q;MADhB,UAAgB,W;MACA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,M
vCoDiD,SuCpDjD,GvCoD2D,KAAK,GuCpDzD,OvCoDoE,KAAX,IAAf,C;;MuClDrD,OAAO,G;K;IAGX,2B;MA
UoB,Q;MADhB,UAAiB,2B;MACD,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,MvBuCmD,UuBvCnD,Gv
BuC8D,KAAK,KuBvC5D,OvBuCuE,KAAX,CAAhB,C;;MuBrCvD,OAAO,G;K;IAGX,2B;MAUoB,Q;MADhB,U
AAgB,W;MACA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,MvCoBiD,SuCpBjD,GvCoB2D,KAAK,GA
AW,CD2O5C,SwC/PxB,OxC+PkC,KAAL,GAAiB,GAAtB,CC3O4C,MAAX,IAAf,C;;MuClBrD,OAAO,G;K;IAG
X,2B;MAUoB,Q;MADhB,UAAgB,W;MACA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,MvCIiD,SuCJjD
,GvCI2D,KAAK,GAAW,CC4O5C,SsChPxB,OtCgPkC,KAAL,GAAiB,KAAtB,CD5O4C,MAAX,IAAf,C;;MuCFr
D,OAAO,G;K;;;;;ICuCP,iD;MAAA,qE;MAAgB,4B;MANpB,uC;MAMI,Y;K;IACA,4D;MAAA,qE;MAAgC,wBA
AM,OAAN,Q;MAPpC,uC;MAOI,Y;K;IACA,mE;MAAA,qE;MAAmD,6BAAM,OAAN,EAAe,KAAf,C;MARvD,u
C;MAQI,Y;K;IACA,0D;MAAA,qE;MAAiC,wBAAM,KAAN,Q;MATrC,uC;MASI,Y;K;ICxGJ,gC;K;;;;ICuBoC,w
C;8BAAsC,O;;K;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;yCC0RtE,6B;MASI,MAAM,yB;K;;;;;;;0CAyDV,sB;MASI,OAAO,I;K;;;;;;
;;;;;;;;;;;;;ICnYf,wB;K;kCAEI,Y;MAA4B,sB;K;;IAMhC,wB;K;kCAEI,Y;MAA4B,mC;K;;IAMhC,yB;K;mCAEI,Y
;MAA4B,uB;K;;IAMhC,uB;K;iCAEI,Y;MAA4B,qB;K;;IAMhC,wB;K;kCAEI,Y;MAA4B,sB;K;;IAMhC,yB;K;mC
AEI,Y;MAA4B,uB;K;;IAMhC,0B;K;oCAEI,Y;MAA4B,wB;K;;IAMhC,2B;K;qCAEI,Y;MAA4B,yB;K;;ICtDM,oD
;MAA2C,uB;MAAjB,gB;MAC5D,sBAAgC,InBkCU,I;MmBjC1C,iBAAmC,YAAO,CAAX,GAAc,SAAS,IAAvB,
GAAiC,SAAS,I;MACzE,cAA4B,cAA5B,GAAqC,KnBgCK,ImBhC1C,GAAqD,mB;K;gDAErD,Y;MAAkC,qB;K;i
DAElC,Y;MACI,YAAY,W;MACZ,IAAI,UAAS,mBAAb,C;QACI,IAAI,CAAC,cAAL,C;UAAc,MAAa,6B;QAC3
B,iBAAU,K;;QAGV,4BAAQ,SAAR,I;;MAEJ,OAAa,OAAN,KAAM,C;K;;IAQgB,mD;MAAyC,sB;MAAjB,gB;M
ACzD,sBAAgC,I;MAChC,iBAAmC,YAAO,CAAX,GAAc,SAAS,IAAvB,GAAiC,SAAS,I;MACzE,cAA4B,cAAJ,
GAAa,KAAb,GAAwB,mB;K;+CAEhD,Y;MAAkC,qB;K;+CAElC,Y;MACI,YAAY,W;MACZ,IAAI,UAAS,mBA
Ab,C;QACI,IAAI,CAAC,cAAL,C;UAAc,MAAa,6B;QAC3B,iBAAU,K;;QAGV,4BAAQ,SAAR,I;;MAEJ,OAAO,

K;K;;IAQuB,oD;MAA4C,uB;MAAlB,gB;MAC5D,sBAAiC,I;MACjC,iBAAmC,uBAAO,CAAX,GAAc,sBAAS,IA
AT,MAAd,GAAiC,sBAAS,IAAT,M;MAChE,cAA6B,cAAJ,GAAa,KAAb,GAAwB,mB;K;gDAEjD,Y;MAAkC,qB
;K;iDAElC,Y;MACI,YAAY,W;MACZ,IAAI,cAAS,mBAAT,CAAJ,C;QACI,IAAI,CAAC,cAAL,C;UAAc,MAAa,
6B;QAC3B,iBAAU,K;;QAGV,8BAAQ,SAAR,C;;MAEJ,OAAO,K;K;;IC9DX,oD;MA6CA,uC;MAtCI,IAAI,SAA
Q,CAAZ,C;QAAe,MAAa,gCAAyB,wBAAzB,C;MAC5B,IAAI,SAAQ,WAAZ,C;QAA2B,MAAa,gCAAyB,wEAA
zB,C;MAG5C,aAGyB,K;MAEzB,YAGuF,OAA/D,0BAA0B,KpBcR,IoBdlB,EAAsC,YpBcpB,IoBdlB,EAAyD,IA
AzD,CAA+D,C;MAEvF,YAGuB,I;K;yCAEvB,Y;MAAwC,mCAAwB,UAAxB,EAA+B,SAA/B,EAAqC,SAArC,C
;K;wCAExC,Y;MAMqC,OAAI,YAAO,CAAX,GAAc,aAAQ,SAAtB,GAAgC,aAAQ,S;K;uCAE7E,iB;MACI,iDA
A6B,kBAAa,KAAM,UAAnB,KAC7B,eAAS,KAAM,MAAf,IAAwB,cAAQ,KAAM,KAAtC,IAA8C,cAAQ,KAA
M,KAD/B,CAA7B,C;K;yCAGJ,Y;MACI,OAAI,cAAJ,GAAe,EAAf,GAAwB,OAAM,OAAK,UpBRG,IoBQR,UA
AkB,SpBRV,IoBQR,KAAN,SAAqC,SAArC,I;K;yCAE5B,Y;MAAkC,OAAI,YAAO,CAAX,GAAc,oBAAE,UAAF
,+BAAU,SAAV,eAAqB,SAAnC,GAA8C,oBAAE,UAAF,qCAAgB,SAAhB,gBAA4B,CAAC,SAAD,IAA5B,C;K;I
AEhF,qC;MAAA,yC;K;kEACI,sC;MAQ2F,2BAAgB,UAAhB,EAA4B,QAA5B,EAAsC,IAAtC,C;K;;;IAT/F,iD;M
AAA,gD;QAAA,+B;OAAA,yC;K;;IAiBA,mD;MA6CA,sC;MAtCI,IAAI,SAAQ,CAAZ,C;QAAe,MAAa,gCAAyB,
wBAAzB,C;MAC5B,IAAI,SAAQ,WAAZ,C;QAA2B,MAAa,gCAAyB,wEAAzB,C;MAG5C,aAGwB,K;MAExB,Y
AGuB,0BAA0B,KAA1B,EAAiC,YAAjC,EAA+C,IAA/C,C;MAEvB,YAGuB,I;K;wCAEvB,Y;MAAuC,kCAAuB,
UAAvB,EAA8B,SAA9B,EAAoC,SAApC,C;K;uCAEvC,Y;MAMqC,OAAI,YAAO,CAAX,GAAc,aAAQ,SAAtB,G
AAgC,aAAQ,S;K;sCAE7E,iB;MACI,gDAA4B,kBAAa,KAAM,UAAnB,KAC5B,eAAS,KAAM,MAAf,IAAwB,cA
AQ,KAAM,KAAtC,IAA8C,cAAQ,KAAM,KADhC,CAA5B,C;K;wCAGJ,Y;MACI,OAAI,cAAJ,GAAe,EAAf,GA
AwB,OAAM,MAAK,UAAL,QAAa,SAAb,IAAN,SAA2B,SAA3B,I;K;wCAE5B,Y;MAAkC,OAAI,YAAO,CAAX,
GAAgB,UAAF,qBAAU,SAAV,cAAqB,SAAnC,GAAgD,UAAF,2BAAgB,SAAhB,eAA4B,CAAC,SAAD,IAA5B,
C;K;IAEhF,oC;MAAAA,wC;K;iEACI,sC;MAQwF,0BAAe,UAAf,EAA2B,QAA3B,EAAqC,IAArC,C;K;;;IAT5F,gD
;MAAA,+C;QAAA,8B;OAAAA,wC;K;;IAiBA,oD;MA6CA,uC;MAtCI,IAAI,gBAAJ,C;QAAgB,MAAa,gCAAyB,w
BAAzB,C;MAC7B,IAAI,sCAAJ,C;QAA4B,MAAa,gCAAyB,yEAAzB,C;MAG7C,aAGyB,K;MAEzB,YAGwB,4B
AA0B,KAA1B,EAAiC,YAAjC,EAA+C,IAA/C,C;MAExB,YAGwB,I;K;yCAExB,Y;MAAwC,mCAAwB,UAAxB,
EAA+B,SAA/B,EAAqC,SAArC,C;K;wCAExC,Y;MAMqC,OAAI,uBAAO,CAAX,GAAc,2BAAQ,SAAR,KAAd,
GAAgC,2BAAQ,SAAR,K;K;uCAErE,iB;MACI,iDAA6B,kBAAa,KAAM,UAAnB,KAC7B,mBAAS,KAAM,MA
f,KAAwB,kBAAQ,KAAM,KAAd,CAAxB,IAA8C,kBAAQ,KAAM,KAAd,CADjB,CAA7B,C;K;yCAGJ,Y;MACI,
OAAI,cAAJ,GAAe,EAAf,GAAwB,iCAAM,iCAAM,eAAW,8BAAW,EAAX,CAAX,CAAN,MAAoC,cAAU,6BA
AU,EAAV,CAAV,CAApC,CAAN,MAAuE,cAAU,6BAAU,EAAV,CAAV,CAAvE,CAAiG,Q;K;yCAE7H,Y;MA
AkC,OAAI,uBAAO,CAAX,GAAgB,UAAF,qBAAU,SAAV,yBAAqB,SAArB,WAAd,GAAgD,UAAF,2BAAgB,S
AAhB,yBAA6B,SAAD,aAA5B,W;K;IAEhF,qC;MAAA,yC;K;kEACI,sC;MAQ4F,2BAAgB,UAAhB,EAA4B,QA
A5B,EAAsC,IAAtC,C;K;;;IAThG,iD;MAAA,gD;QAAA,+B;OAAA,yC;K;;;;6CClKA,iB;MAGkD,+BAAS,UAAT,
UAAkB,wBAAS,iBAAT,M;K;oCAEpE,Y;MAKgC,oCAAQ,iBAAR,K;K;;I7CpBd,wC;MAsBlB,iC;MAtBsD,2BA
AgB,KAAhB,EAAuB,YAAvB,EAAqC,CAArC,C;K;kFAC7B,Y;MAAQ,8B;K;yFACD,Y;MAAQ,6B;K;2CAExC,i
B;MAA8C,qBAAS,KAAT,IAAkB,SAAS,S;K;kCAEzE,Y;MAKkC,oBAAQ,S;K;iCAE1C,iB;MACI,2CAAuB,kBA
Aa,KAAM,UAAnB,KACvB,eAAS,KAAM,MAAf,IAAwB,cAAQ,KAAM,KADf,CAAvB,C;K;mCAGJ,Y;MACI,O
AAI,cAAJ,GAAe,EAAf,GAAwB,OAAK,UwBkBS,IxBlBd,UAAkB,SwBkBJ,IxBlBd,K;K;mCAE5B,Y;MAAkC,2
BAAE,UAAF,+BAAU,SAAV,C;K;IAElC,+B;MAAAA,mC;MACI,aAC8B,cAAY,OAAF,CAAE,CAAZ,EAAwB,O
AAF,CAAE,CAAxB,C;K;;;IAFlC,2C;MAAAA,0C;QAAAA,yB;OAAAA,mC;K;;IASiB,uC;MAsBjB,gC;MAtBmD,0BA
Ae,KAAf,EAAsB,YAAtB,EAAoC,CAApC,C;K;iFAC3B,Y;MAAQ,iB;K;wFACD,Y;MAAQ,gB;K;0CAEvC,iB;M
AA6C,qBAAS,KAAT,IAAkB,SAAS,S;K;iCAExE,Y;MAKkC,oBAAQ,S;K;gCAE1C,iB;MACI,0CAAsB,kBAAa,
KAAM,UAAnB,KACtB,eAAS,KAAM,MAAf,IAAwB,cAAQ,KAAM,KADhB,CAAtB,C;K;kCAGJ,Y;MACI,OA
AI,cAAJ,GAAe,EAAf,GAAwB,MAAK,UAAL,QAAa,SAAb,I;K;kCAE5B,Y;MAAkC,OAAE,UAAF,qBAAU,S;K;
IAE5C,8B;MAAAA,kC;MACI,aAC6B,aAAS,CAAT,EAAY,CAAZ,C;K;;;IAFjC,0C;MAAAA,yC;QAAAA,wB;OAAAA,
kC;K;;IASkB,wC;MAsBlB,iC;MAtBsD,2BAAgB,KAAhB,EAAuB,YAAvB,K;K;kFAC7B,Y;MAAQ,iB;K;yFACD
,Y;MAAQ,gB;K;2CAExC,iB;MAA8C,kCAAS,KAAT,UAAkB,sBAAS,SAAT,M;K;kCAEhE,Y;MAKkC,kCAAQ,
SAAR,K;K;iCAElC,iB;MACI,2CAAuB,kBAAa,KAAM,UAAnB,KACvB,mBAAS,KAAM,MAAf,KAAwB,kBAA

Q,KAAM,KAAd,CADD,CAAvB,C;K;mCAGJ,Y;MACI,OAAI,cAAJ,GAAe,EAAf,GAAwB,iCAAM,eAAW,8BA
AW,EAAX,CAAX,CAAN,MAAoC,cAAU,6BAAU,EAAV,CAAV,CAApC,CAA8D,Q;K;mCAE1F,Y;MAAkC,O
AAE,UAAF,qBAAU,SAAV,W;K;IAElC,+B;MAAA,mC;MACI,aAC8B,qB;K;;;IAFlC,2C;MAAA,0C;QAAA,yB;
OAAA,mC;K;;I8C9EJ,gB;MAAA,oB;K;8BAII,Y;MAA0B,oB;K;;;IAJ9B,4B;MAAA,2B;QAAA,U;OAAA,oB;K;I
CEA,yC;MAAA,e;MAAA,iB;MAAA,uB;K;IAAA,uC;MAAA,0C;O;MAII,kE;MAEA,wF;MAEA,oF;MAEA,wE;
MAEA,kE;MAEA,oF;MAEA,sF;MAEA,8E;MAEA,wE;MAEA,sF;MAEA,uF;MAEA,iE;MAEA,6E;MAEA,iE;MA
EA,2E;K;;IA5BA,8C;MAAA,6B;MAAA,sC;K;;IAEA,yD;MAAA,6B;MAAA,iD;K;;IAEA,uD;MAAA,6B;MAAA,
+C;K;;IAEA,iD;MAAA,6B;MAAA,yC;K;;IAEA,8C;MAAA,6B;MAAA,sC;K;;IAEA,uD;MAAA,6B;MAAA,+C;K
;;IAEA,wD;MAAA,6B;MAAA,gD;K;;IAEA,oD;MAAA,6B;MAAA,4C;K;;IAEA,iD;MAAA,6B;MAAA,yC;K;;IA
EA,wD;MAAA,6B;MAAA,gD;K;;IAEA,wD;MAAA,6B;MAAA,gD;K;;IAEA,6C;MAAA,6B;MAAA,qC;K;;IAEA
,mD;MAAA,6B;MAAA,2C;K;;IAEA,6C;MAAA,6B;MAAA,qC;K;;IAEA,kD;MAAA,6B;MAAA,0C;K;;IAhCJ,m
C;MAAA,+oB;K;;IAAA,wC;MAAA,a;aAAA,O;UAAA,2C;aAAA,kB;UAAA,sD;aAAA,gB;UAAA,oD;aAAA,U;U
AAA,8C;aAAA,O;UAAA,2C;aAAA,gB;UAAA,oD;aAAA,iB;UAAA,qD;aAAA,a;UAAA,iD;aAAA,U;UAAA,8C;
aAAA,iB;UAAA,qD;aAAA,iB;UAAA,qD;aAAA,M;UAAA,0C;aAAA,Y;UAAA,gD;aAAA,M;UAAA,0C;aAAA,
W;UAAA,+C;gBAAA,uE;;K;;IAqCA,4C;MAAA,e;MAAA,iB;MAAA,uB;K;IAAA,0C;MAAA,6C;O;MAMI,0E;M
AEA,0E;MAEA,4E;K;;IAJA,kD;MAAA,gC;MAAA,0C;K;;IAEA,kD;MAAA,gC;MAAA,0C;K;;IAEA,mD;MAAA
,gC;MAAA,2C;K;;IAVJ,sC;MAAA,sI;K;;IAAA,2C;MAAA,a;aAAA,Q;UAAA,+C;aAAA,Q;UAAA,+C;aAAA,S;U
AAA,gD;gBAAA,0E;;K;;IAwB8B,gC;MAAC,oC;K;;IAQE,0B;MAAC,qB;QAAA,iD;MAAA,kB;K;;IAElC,sB;K;;I
AMA,4B;K;;IC/EA,yB;K;;IAQA,6B;K;;ICnBA,mB;MAEI,UAAU,IAAI,C;MACd,OAAW,OAAO,CAAX,GAAc,G
AAd,GAAuB,MAAM,CAAN,I;K;IAGlC,qB;MACI,UAAU,SAAI,CAAJ,C;MACV,OAAW,kBAAO,CAAX,GAAc,
GAAd,GAAuB,QAAM,CAAN,C;K;IAGlC,mC;MAEI,OAAO,IAAI,IAAI,CAAJ,EAAO,CAAP,IAAY,IAAI,CAAJ,
EAAO,CAAP,CAAZ,IAAJ,EAA2B,CAA3B,C;K;IAGX,qC;MACI,OAAO,MAAI,MAAI,CAAJ,EAAO,CAAP,WA
AY,MAAI,CAAJ,EAAO,CAAP,CAAZ,CAAJ,EAA2B,CAA3B,C;K;IAGX,qD;MAkBI,WAAO,CAAP,C;QAD2E,
OAC3D,SAAS,GAAb,GAAkB,GAAlB,GAA2B,MAAM,iBAAiB,GAAjB,EAAsB,KAAtB,EAA6B,IAA7B,CAAN,
I;WACvC,WAAO,CAAP,C;QAF2E,OAE3D,SAAS,GAAb,GAAkB,GAAlB,GAA2B,MAAM,iBAAiB,KAAjB,EA
AwB,GAAxB,EAA6B,CAAC,IAAD,IAA7B,CAAN,I;;QAC/B,MAAa,gCAAyB,eAAzB,C;K;IAGzB,uD;MAkBI,s
BAAO,CAAP,C;QAD+E,OAC/D,sBAAS,GAAT,MAAJ,GAAkB,GAAlB,GAA2B,aAAM,mBAAiB,GAAjB,EAAs
B,KAAtB,EAA6B,IAA7B,CAAN,C;WACvC,sBAAO,CAAP,C;QAF+E,OAE/D,sBAAS,GAAT,MAAJ,GAAkB,G
AAlB,GAA2B,QAAM,mBAAiB,KAAjB,EAAwB,GAAxB,EAA8B,IAAD,aAA7B,CAAN,C;;QAC/B,MAAa,gCA
AyB,eAAzB,C;K;IC7DjB,kD;MAAA,8B;MACI,aAAY,C;K;oDACZ,Y;MAAyB,oBAAQ,gBAAI,O;K;iDACrC,Y;
MAAgD,Q;MAA1B,IAAI,aAAQ,gBAAI,OAAhB,C;QAAA,OAAsB,iBAAI,iBAAJ,EAAI,yBAAJ,O;;QAAkB,MA
AM,2BAAyB,UAAF,WAAvB,C;K;;IAPhF,oC;MAEI,IAD8D,IAC9D,S;QACI,UAA0B,K;QAF0B,2C;;QAAA,QA
AM,IAAN,C;eASxD,c;YATwD,OAStC,qBAAqB,KAArB,C;eAClB,W;YAVwD,OAUzC,kBAAkB,KAAlB,C;eAC
f,Y;YAXwD,OAWxC,mBAAmB,KAAnB,C;eAChB,W;YAZwD,OAYzC,kBAAkB,KAAlB,C;eACf,U;YAbwD,O
Aa1C,iBAAiB,KAAjB,C;eACd,W;YAdwD,OAczC,kBAAkB,KAAlB,C;eACf,Y;YAfwD,OAexC,mBAAmB,KAA
nB,C;eAChB,a;YAhBwD,OAgBvC,oBAAoB,KAApB,C;kBACT,MAAM,6BAAsB,2DAA+C,IAA/C,CAAtB,C;;K;
IAIuC,2D;MAAA,kC;MAAS,0B;MAC9D,aAAY,C;K;2DACZ,Y;MAAyB,oBAAQ,kBAAM,O;K;+DACvC,Y;MA
A2D,Q;MAA9B,IAAI,aAAQ,kBAAM,OAAlB,C;QAAA,OAAwB,mBAAM,iBAAN,EAAM,yBAAN,O;;QAAoB,
MAAM,2BAAyB,UAAF,WAAvB,C;K;;IAJnF,qC;MACyD,oD;K;IAON,wD;MAAA,kC;MAAS,uB;MACxD,aAA
Y,C;K;wDACZ,Y;MAAyB,oBAAQ,kBAAM,O;K;yDACvC,Y;MAAwD,Q;MAA9B,IAAI,aAAQ,kBAAM,OAAlB
,C;QAAA,OAAwB,mBAAM,iBAAN,EAAM,yBAAN,O;;QAAoB,MAAM,2BAAyB,UAAF,WAAvB,C;K;;IAJhF,
kC;MACmD,iD;K;IAOE,yD;MAAA,kC;MAAS,wB;MAC1D,aAAY,C;K;yDACZ,Y;MAAyB,oBAAQ,kBAAM,O;
K;2DACvC,Y;MAAyD,Q;MAA9B,IAAI,aAAQ,kBAAM,OAAlB,C;QAAA,OAAwB,mBAAM,iBAAN,EAAM,yB
AAN,O;;QAAoB,MAAM,2BAAyB,UAAF,WAAvB,C;K;;IAJjF,mC;MACqD,kD;K;IAOF,wD;MAAA,kC;MAAS,
uB;MACxD,aAAY,C;K;wDACZ,Y;MAAyB,oBAAQ,kBAAM,O;K;yDACvC,Y;MAAwD,Q;MAA9B,IAAI,aAAQ
,kBAAM,OAAlB,C;QAAA,OAAwB,mBAAM,iBAAN,EAAM,yBAAN,O;;QAAoB,MAAM,2BAAyB,UAAF,WA
AvB,C;K;;IAJhF,kC;MACmD,iD;K;IAOF,uD;MAAA,kC;MAAS,sB;MACtD,aAAY,C;K;uDACZ,Y;MAAyB,oBA
AQ,kBAAM,O;K;uDACvC,Y;MAAuD,Q;MAA9B,IAAI,aAAQ,kBAAM,OAAlB,C;QAAA,OAAwB,mBAAM,iB

AAN,EAAM,yBAAN,O;;QAAoB,MAAM,2BAAyB,UAAF,WAAvB,C;K;;IAJ/E,iC;MACiD,gD;K;IAOI,yD;MAA
A,kC;MAAS,wB;MAC1D,aAAY,C;K;yDACZ,Y;MAAyB,oBAAQ,kBAAM,O;K;2DACvC,Y;MAAyD,Q;MAA9B
,IAAI,aAAQ,kBAAM,OAAlB,C;QAAA,OAAwB,mBAAM,iBAAN,EAAM,yBAAN,O;;QAAoB,MAAM,2BAAyB
,UAAF,WAAvB,C;K;;IAJjF,mC;MACqD,kD;K;IAOE,0D;MAAA,kC;MAAS,yB;MAC5D,aAAY,C;K;0DACZ,Y;
MAAyB,oBAAQ,kBAAM,O;K;6DACvC,Y;MAA0D,Q;MAA9B,IAAI,aAAQ,kBAAM,OAAlB,C;QAAA,OAAwB
,mBAAM,iBAAN,EAAM,yBAAN,O;;QAAoB,MAAM,2BAAyB,UAAF,WAAvB,C;K;;IAJlF,oC;MACuD,mD;K;I
AOJ,wD;MAAA,kC;MAAS,uB;MACxD,aAAY,C;K;wDACZ,Y;MAAyB,oBAAQ,kBAAM,O;K;yDACvC,Y;MA
AwD,Q;MAA9B,IAAI,aAAQ,kBAAM,OAAlB,C;QAAA,OAAwB,mBAAM,iBAAN,EAAM,yBAAN,O;;QAAoB,
MAAM,2BAAyB,UAAF,WAAvB,C;K;;IAJhF,kC;MACmD,iD;K;IAOpB,gC;MAAC,wB;K;;IAEhC,+B;MAC8C,
MAAM,mC;K;IAEpD,8C;MAEI,IAAI,qBAAJ,C;QACI,OAAO,C5ByIiF,W4BzIrE,U5ByIqE,E4BzIzD,Q5ByIyD,C
;;Q4BvIxF,OAAS,CAAY,qBAAsB,UAAtB,EAAkC,QAAlC,C;;K;IAI7B,2C;MAEI,IAAI,KAAY,kBAAhB,C;QAG
I,KAAY,mBAAkB,QAAlB,C;;QAEH,QAAT,SAA+C,CAAlB,IAAjC,KAAiC,EAAkB,O;;K;IAIvD,sC;MAGwB,Q;
MADpB,gBAAgB,IAAhB,KAAgB,E;MACI,IAAI,OCnGkB,ODmGT,OAAT,EAAqB,WAArB,CAAJ,C;QAChB,O
AAI,aAAJ,GAAmB,KAAM,WAAzB,GAAyC,I;;QAEzC,c;;MAHJ,wB;MAKA,kBAAkB,K;MAClB,iBAAiB,W;M
ACjB,OAAO,S;K;IAIa,sB;MAAC,U;K;iCACrB,iB;MACI,OAAO,mCAAsB,WAAK,KAAM,E;K;mCAG5C,Y;MA
CI,OAAO,M;K;mCAGX,Y;MACI,OAAuC,oBAAnB,UAA5B,IAAe,EAAa,CAAmB,C;K;0CAG3C,iB;MACI,OAA
R,IAAI,EAAW,GAAN,K;K;kCAGL,Y;MAEI,OAAO,M;K;;+DAIf,gB;MAEI,YAAY,MAAY,IAAK,OAAjB,C;M
ACZ,sBAAU,IAAV,a;QACI,UAAU,KAAK,CAAL,C;QACV,IAAI,oBAAJ,C;UACI,MAAM,CAAN,IAAW,EAAS,
MAAM,MAAK,GAAL,C;;UAE1B,MAAM,CAAN,IAAW,G;;;MAGnB,OAAO,EAAS,OAAO,OAAM,EAAN,EA
AgB,KAAhB,C;K;IAG3B,2B;MAMW,WAAO,S;MAlBd,YAAY,MAAY,IAAK,OAAjB,C;MACZ,sBAAU,IAAV,
a;QACI,UAAU,KAAK,CAAL,C;QACV,IAAI,oBAAJ,C;UACI,MAAM,CAAN,IAAW,EAAS,MAAM,MAAK,GA
AL,C;;UAE1B,MAAM,CAAN,IAAW,G;;;MAYnB,OATO,EAAS,OAAO,OAAM,EAAN,EAAgB,KAAhB,C;K;IA
Y3B,oC;MAWI,WAAqB,S;MACrB,IAAI,qBAAmB,CAAY,OAAd,KAA2B,SAAhD,C;QAjCA,YAAY,MAkCM,I
AlCW,OAAjB,C;QACZ,sBAiCkB,IAjClB,a;UACI,UAgCc,IAhCJ,CAAK,CAAL,C;UACV,IAAI,oBAAJ,C;YACI,
MAAM,CAAN,IAAW,EAAS,MAAM,MAAK,GAAL,C;;YAE1B,MAAM,CAAN,IAAW,G;;;QA4Bf,OAzBG,EAA
S,OAAO,OAAM,EAAN,EAAgB,KAAhB,C;;QA2BnB,WAAW,C;QACX,0BAAU,IAAV,e;UACY,IAAoB,I;UAA
5B,eAAQ,QAAoB,OAApB,IAAQ,CAAH,GAAG,CAAY,OAApB,oCAAR,K;;QAEJ,aAAa,IAAjB,CAAC,YAAgB,
CAAH,IAAG,C;QE3FjB,IF4FyB,CE5FhB,OAAL,KAAkB,SAAtB,C;UF4F4B,ME3FxB,UF2FqB,CE3FF,O;SF4Fn
B,OAAO,C;QACP,0BAAU,IAAV,e;UAE0B,YACX,M;UAFX,YAAU,IAAQ,CAAH,GAAG,C;UACI,SAAJ,KAAI
,O;UAAtB,aAAU,CAAV,kB;YACI,OAAO,aAAP,EAAO,qBAAP,YAAiB,MAAI,CAAJ,C;;;QAGzB,OAAO,M;;K;
IAIf,0B;MACgC,WAAS,c;MAAT,YAAhC,EAAE,MAAM,KAAiD,CAA3C,SAA2C,C;MAWrD,eAAiB,I;MAXW,
OAYrB,K;K;IAVX,uB;MAC6B,WAAS,W;MAAT,YAAsB,IAA/C,WAA+C,CAAnC,EAAE,MAAM,KAAK,CAA
C,SAAD,CAAsB,C;MAQ/C,eAAiB,I;MARQ,OASlB,K;K;IAPX,uB;MAC6B,WAAS,W;MAAT,YAA7B,EAAE,M
AAM,KAA2C,CAArC,SAAqC,C;MAK/C,eAAiB,I;MALQ,OAMlB,K;K;2DAJX,uB;MAGI,eAAiB,I;MACjB,OA
AO,K;K;kEG9MX,yB;MAAA,0B;MAAA,uB;QASI,OAAoB,OAAb,ItD0Q+B,KAAL,GAAiB,KsD1Q9B,C;O;KA
TxB,C;ICIqC,2C;MAAC,8C;MAClC,eAAsB,C;MACtB,wBAA+B,C;MAC/B,gBAA6B,I;MAC7B,mBAAsC,I;MA
CtC,qBAAyC,I;MAEzC,yBAAgD,yBAAmB,Q;MAEnE,sBAAgD,I;K;wFAFhD,Y;MAAA,6B;K;0CAIA,Y;MAEY
,kBADR,M;MAAA,U;MAAA,2C;QAAA,e;;QAES,gBADD,2CAAQ,yCAAR,gDAAwD,IAAxD,6BAAiE,I;QACz
D,sB1CwEd,S;Q0C1EF,S1C2EG,S;;M0C3EH,a;K;iDAIJ,kB;MACI,kBAAc,IAAd,C;MACiC,oB;MCuBrB,Q;MAD
R,IDtBsB,MCsBtB,W;QADJ,mBACiB,I;;QADjB,mBAEY,QDvBc,MCuBd,+D;;MDvBZ,yC;MACA,2BAAmC,M
AAO,kBAA1C,C;MAGA,OAAO,IAAP,C;Q1CoCY,gB0CnCH,S;;QACD,iBAAiB,8B;QAGjB,IAAI,0BAAJ,C;UA
CI,qBAAc,e;;UAEd,oBAAQ,0B;UACR,wBAAY,kB;;;UAIZ,cAAc,oB;UACd,IAAI,YAAY,yBAAhB,C;YAAqC,M
;UACrC,kBAAgB,O;UAChB,qBAAmB,I;;UAEnB,kBAAgB,I;UAChB,qBAAmB,S;;QAGvB,gC;QAEA,IAAI,wC
AAJ,C;UAEI,YAAU,U;;UAGV,U;UAAA,0C;YEThB,8BDgDQ,WAAO,qBAAP,CChDR,C;YFSgB,a;;YAAA,a;U
AAA,mB;YAEK,UEpBrB,oBDgDQ,WD5B+B,eC4B/B,CChDR,C;WFqBgB,M;;;K;mDAMhB,Y;MACI,kBAAkB,
mB;MAClB,IAAI,uBAAuB,gBAAgB,IAA3C,C;QACI,uCAAQ,yCAAR,EAAmC,wCAA+B,WAA/B,C;OAEvC,sB
AAoB,mC;K;;IAM5B,iC;MAAA,qC;K;gGAEQ,Y;M7C0DyC,MAAM,6B6C1DjC,uC7C0D+D,WAA9B,C;K;yD6
CxDnD,kB;M7CwD6C,MAAM,6B6CvDzC,uC7CuDuE,WAA9B,C;K;+C6CpDnD,Y;MAAkC,8C;K;;;IARtC,6C;

MAAA,4C;QAAA,2B;OAAA,qC;K;IGyDA,mG;IAAA,yH;IAAA,6F;MAKW,kC;MAAS,4C;K;IALpB,sEAMQ,Y;
MACI,Q;MAAA,sC;QAAiB,U;OACjB,OAAO,oB;K;IARnB,6G;sJAjIA,iC;MAgBU,OAAK,SAAL,CAAiB,UAAj
B,EAA6B,KAA7B,C;K;wJAEV,2C;MAiBU,OAAK,SAAL,CAAiB,QAAjB,EAA2B,UAA3B,EAAuC,KAAvC,C;K
;wJAEV,kD;MAKU,OAAK,SAAL,CAAiB,QAAjB,EAA2B,KAA3B,EAAkC,UAAlC,EAA8C,KAA9C,C;K;IAgC6
C,oG;MAAA,mB;QAC3C,OAAK,iCAAL,CAAiB,kBAAjB,C;O;K;IA/BZ,6D;MA0BI,IAAS,SAAY,OAAjB,IAA2
B,CAA/B,C;QAAA,OAES,SAAL,CAAiB,UAAjB,EAA6B,IAA7B,C;;QA8D0B,Q;QAhE9B,4DAImD,0DAJnD,E
AgE8B,qBA5DS,UA4DT,qCAhE9B,C;;K;IAwCmD,wH;MAAA,mB;QAC3C,OAAK,iCAAL,CAAiB,gBAAjB,EA
A2B,kBAA3B,C;O;K;IAhCZ,yE;MA2BI,IAAS,SAAY,OAAjB,IAA2B,CAA/B,C;QAAA,OAES,SAAL,CAAiB,Q
AAjB,EAA2B,UAA3B,EAAuC,IAAvC,C;;QA0B0B,Q;QA5B9B,4DAImD,sEAJnD,EA4B8B,qBAxBS,UAwBT,q
CA5B9B,C;;K;IASJ,gC;MAWK,kBAAD,M;MAAA,kBAAC,qEAAD,4DAA2C,S;K;6CAG/C,yB;MAAA,mG;MA
AA,yH;MAAA,6F;QAKW,kC;QAAS,4C;O;MALpB,sEAMQ,Y;QACI,Q;QAAA,sC;UAAiB,U;SACjB,OAAO,oB;
O;MARnB,6G;MAAA,oC;QAKkC,Q;QAA9B,mEAA8B,oEAA9B,C;O;KALJ,C;iFC7HA,a;MAC6C,OAAA,MAA
a,YAAW,CAAX,C;K;ICM3B,iC;;MAA6E,Q;MAAA,+BAAS,I;sCAAlB,O,2DAAA,O;;;;K;;;;;;;;IAC/F,2B;MAAA,
iD;MAAuB,oBAAK,IAAL,EAAW,IAAX,C;MAAvB,Y;K;IACA,sC;MAAA,iD;MAAuC,oBAAK,OAAL,EAAc,IA
Ad,C;MAAvC,Y;K;IACA,oC;MAAA,iD;MAAwC,oBAAK,SAAL,EAAgB,KAAhB,C;MAAxC,Y;K;IAI+B,mC;;
MAA6E,Q;MAAA,+BAAS,I;sCAAlB,O,2DAAA,O;;;;K;;;;;;;;IACnG,+B;MAAA,mD;MAAuB,sBAAK,IAAL,EA
AW,IAAX,C;MAAvB,Y;K;IACA,0C;MAAA,mD;MAAuC,sBAAK,OAAL,EAAc,IAAd,C;MAAvC,Y;K;IACA,w
C;MAAA,mD;MAAwC,sBAAK,SAAL,EAAgB,KAAhB,C;MAAxC,Y;K;IAGsC,0C;MAA0D,qBAAU,OAAV,EA
AmB,KAAnB,C;;K;;IAChG,sC;MAAA,0D;MAAuB,6BAAK,IAAL,EAAW,IAAX,C;MAAvB,Y;K;IACA,iD;MA
AA,0D;MAAuC,6BAAK,OAAL,EAAc,IAAd,C;MAAvC,Y;K;IACA,+C;MAAA,0D;MAAwC,6BAAK,SAAL,EA
AgB,KAAhB,C;MAAxC,Y;K;IAG8C,kD;MAA0D,4BAAiB,OAAjB,EAA0B,KAA1B,C;;K;;IACxG,8C;MAAA,kE
;MAAuB,qCAAK,IAAL,EAAW,IAAX,C;MAAvB,Y;K;IACA,yD;MAAA,kE;MAAuC,qCAAK,OAAL,EAAc,IAA
d,C;MAAvC,Y;K;IACA,uD;MAAA,kE;MAAwC,qCAAK,SAAL,EAAgB,KAAhB,C;MAAxC,Y;K;IAG2C,+C;M
AA0D,4BAAiB,OAAjB,EAA0B,KAA1B,C;;K;;IACrG,2C;MAAA,+D;MAAuB,kCAAK,IAAL,EAAW,IAAX,C;M
AAvB,Y;K;IACA,sD;MAAA,+D;MAAuC,kCAAK,OAAL,EAAc,IAAd,C;MAAvC,Y;K;IACA,oD;MAAA,+D;M
AAwC,kCAAK,SAAL,EAAgB,KAAhB,C;MAAxC,Y;K;IAG+C,4C;8BAAwD,O;;K;;IACvG,+C;MAAA,mE;MA
AuB,sCAAK,IAAL,C;MAAvB,Y;K;IAGqD,yD;MAA0D,4BAAiB,OAAjB,EAA0B,KAA1B,C;;K;;IAC/G,qD;MA
AA,yE;MAAuB,4CAAK,IAAL,EAAW,IAAX,C;MAAvB,Y;K;IACA,gE;MAAA,yE;MAAuC,4CAAK,OAAL,EA
Ac,IAAd,C;MAAvC,Y;K;IACA,8D;MAAA,yE;MAAwC,4CAAK,SAAL,EAAgB,KAAhB,C;MAAxC,Y;K;IAGm
D,uD;MAA0D,4BAAiB,OAAjB,EAA0B,KAA1B,C;;K;;IAC7G,mD;MAAA,uE;MAAuB,0CAAK,IAAL,EAAW,I
AAX,C;MAAvB,Y;K;IACA,8D;MAAA,uE;MAAuC,0CAAK,OAAL,EAAc,IAAd,C;MAAvC,Y;K;IACA,4D;MA
AA,uE;MAAwC,0CAAK,SAAL,EAAgB,KAAhB,C;MAAxC,Y;K;IAI2C,wC;sCAAgE,O;;K;;IAC3G,2C;MAAA,+
D;MAAuB,kCAAK,IAAL,C;MAAvB,Y;K;IAI0C,uC;8BAAwD,O;;K;;IAClG,0C;MAAA,8D;MAAuB,iCAAK,IA
AL,C;MAAvB,Y;K;IAGwC,qC;8BAAwD,O;;K;;IAChG,wC;MAAA,4D;MAAuB,+BAAK,IAAL,C;MAAvB,Y;K;I
AIJ,wC;MACmD,mBAAM,OAAN,EAAe,KAAf,C;;K;;IAC/C,oC;MAAA,wD;MAAuB,sBAAK,IAAL,Q;MAAvB,
Y;K;IACA,+C;MAAA,wD;MAAgC,2BAAK,OAAL,EAAc,IAAd,C;MAAhC,Y;K;IACA,+C;MAAA,wD;MAAiD,I
AAY,I;MAAzB,2BAAa,SAAR,OAAQ,CAAb,EAAyB,sDAAzB,C;MAApC,Y;K;IAG4C,yC;8BAAwD,O;;K;;IACp
G,4C;MAAA,gE;MAAuB,mCAAK,IAAL,C;MAAvB,Y;K;IAIyC,sC;8BAAwD,O;;K;;IACjG,yC;MAAA,6D;MAA
uB,gCAAK,IAAL,C;MAAvB,Y;K;IAGkD,sD;MAA0D,4BAAiB,OAAjB,EAA0B,KAA1B,C;;K;;IAC5G,kD;MAA
A,sE;MAAuB,yCAAK,IAAL,EAAW,IAAX,C;MAAvB,Y;K;IACA,6D;MAAA,sE;MAAuC,yCAAK,OAAL,EAAc
,IAAd,C;MAAvC,Y;K;IACA,2D;MAAA,sE;MAAwC,yCAAK,SAAL,EAAgB,KAAhB,C;MAAxC,Y;K;IAG0D,8
D;MAA0D,4BAAiB,OAAjB,EAA0B,KAA1B,C;;K;;IACpH,0D;MAAA,8E;MAAuB,iDAAK,IAAL,EAAW,IAAX,
C;MAAvB,Y;K;IACA,qE;MAAA,8E;MAAuC,iDAAK,OAAL,EAAc,IAAd,C;MAAvC,Y;K;IACA,mE;MAAA,8E;
MAAwC,iDAAK,SAAL,EAAgB,KAAhB,C;MAAxC,Y;K;6FClGJ,yB;MAEI,OAAG,GAAG,CAAC,QAAD,C;K;m
FAGV,oB;MAEI,OAAJ,GAAI,GAAE,G;K;6ETVN,a;MAK8C,cAAvC,C;K;6ECHP,Y;MAG+C,S;K;IA6B/C,2B;M
AG4D,0BAAe,WAAf,C;K;IAE5D,mC;MAIwF,0BAAe,WAAf,C;K;IAExF,mC;MAKwE,0BAAe,WAAf,C;K;IAG
xE,4B;MAI8D,Q;MAH1D,aAAkB,GAAI,O;MACtB,aAAkB,GAAI,O;MACtB,YAAiB,C;MACjB,OAAO,QAAQ,
MAAR,IAAkB,QAAQ,MAAjC,C;QAAyC,IAAI,KAAJ,IAAa,IAAI,YAAJ,EAAI,oBAAJ,O;;MACtD,OAAO,G;K;I

AIX,wD;MAMuC,Q;MALnC,aAAa,MAAO,OAAM,CAAN,EAAS,OAAT,C;MA0BpB,IAzBc,MAyBL,OAAL,KA
AkB,SAAtB,C;QAzBsB,MA0BlB,UA1BU,MA0BS,O;OAzBvB,YAAiB,MAAO,O;MACxB,IAAI,UAAU,KAAd,C
;QACI,gBAAgB,O;QAChB,OAAO,QAAQ,OAAf,C;UAAwB,OAAO,YAAP,EAAO,oBAAP,UAAkB,Y;;OAE9C,
OAAO,M;K;IAGX,gD;MAKoB,UAAmB,M;MAJnC,aAAa,KAAM,Q;MACnB,MAAO,OAAP,IAAiB,UAAW,K;
MAc5B,IAbc,KAaL,OAAL,KAAkB,SAAtB,C;QAbqB,MAcjB,UAdU,KAcS,O;OAbvB,YAAiB,KAAM,O;MACP,
4B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAY,OAAO,cAAP,EAAO,sBAAP,YAAkB,O;;MAC9C,OAAO,M;
K;IAGX,yD;MAEoB,UAAgB,M;MADhC,YAAY,U;MACI,4B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAY,IA
AI,cAAJ,EAAI,sBAAJ,YAAe,O;;MAC3C,OAAO,G;K;oFAGX,oB;MACI,IAAI,IAAK,OAAL,KAAkB,SAAtB,C;
QACI,YAAc,IAAK,O;Q;0EAI3B,wB;MAA+D,OAAA,MAAa,QAAO,GAAP,EAAY,OAAZ,C;K;IS/F5E,mC;MA
OI,kBAAkB,MAAa,eAAc,SAAd,C;MAC/B,iBAAiB,MAAa,eAAc,IAAd,C;MAC9B,OAAW,gBAAe,UAAnB,GA
A+B,SAA/B,GAAyC,CAAC,S;K;0ECUrD,2B;MAKyE,OAAA,MAAa,gBAAe,IAAf,C;K;4EAyBtF,2B;MAKsE,O
AAA,MAAa,eAAc,IAAd,C;K;kEAGnF,qB;MACgD,OAAA,MAAa,KAAK,UAAS,GAAT,EAAc,IAAd,C;K;wEAC
hC,qB;MAAQ,OAAK,SAAY,a;K;0EACxB,qB;MAAQ,OAAK,SAAY,c;K;IC3D5D,0D;MAGI,OAAO,I;K;ICHX,s
C;MAMsD,OAAA,SAAY,UAAS,WAAW,KAAX,EAAkB,CAAlB,C;K;ItDKlE,uC;Mf2nBW,Q;MAAA,IernBgB,KfqnBZ,I
AAS,CAAT,IernBY,KfqnBE,IAAS,wBAA3B,C;QAAA,OAAsC,UernBtB,KfqnBsB,C;;QernBb,MAAM,8BAA0B,i
CAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;Mf4nBW,Q;MAAA,IetnBgB,KfsnBZ,IAAS,CAAT,IetnBY,
KfsnBE,IAAS,0BAA3B,C;QAAA,OAAsC,UetnBtB,KfsnBsB,C;;QetnBb,MAAM,8BAA0B,iCAAuB,gBAAvB,M
AA1B,C;;MAAtC,W;K;IAGJ,uC;Mf6nBW,Q;MAAA,IevnBgB,KfunBZ,IAAS,CAAT,IevnBY,KfunBE,IAAS,0BA
A3B,C;QAAA,OAAsC,UevnBtB,KfunBsB,C;;QevnBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,
W;K;IAGJ,uC;Mf8nBW,Q;MAAA,IexnBgB,KfwnBZ,IAAS,CAAT,IexnBY,KfwnBE,IAAS,0BAA3B,C;QAAA,OAAsC,O
AAsC,UexnBtB,KfwnBsB,C;;QexnBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;M
f+nBW,Q;MAAA,IeznBgB,KfynBZ,IAAS,CAAT,IeznBY,KfynBE,IAAS,0BAA3B,C;QAAA,OAAsC,UeznBtB,KfynBsB,C;;QeznBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfgoBW,Q;MAAA,Ie1nBgB,Kf0nBZ,IAAS,CAAT,Ie1nBY,Kf0nBE,IAAS,0BAA3B,C;QAAA,OAAsC,Ue1nBtB,Kf0nBsB,C;;Qe1nBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfioBW,Q;MAAA,Ie3nBgB,Kf2nBZ,IAAS,CAAT,Ie3nBY,Kf2nBE,IAAS,0BAA3B,C;QAAA,OAAsC,Ue3nBtB,Kf2nBsB,C;;Qe3nBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfkoBW,Q;MAAA,Ie5nBgB,Kf4nBZ,IAAS,CAAT,Ie5nBY,Kf4nBE,IAAS,0BAA3B,C;QAAA,OAAsC,Ue5nBtB,Kf4nBsB,C;;Qe5nBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfmoBW,Q;MAAA,Ie7nBgB,Kf6nBZ,IAAS,CAAT,Ie7nBY,Kf6nBE,IAAS,0BAA3B,C;QAAA,OAAsC,Ue7nBtB,Kf6nBsB,C;;Qe7nBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfooBW,Q;MAAA,Ie9nBgB,Kf8nBZ,IAAS,CAAT,Ie9nBY,Kf8nBE,IAAS,0BAA3B,C;QAAA,OAAsC,Ue9nBtB,Kf8nBsB,C;;Qe9nBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfqoBW,Q;MAAA,Ie/nBgB,Kf+nBZ,IAAS,CAAT,Ie/nBY,Kf+nBE,IAAS,0BAA3B,C;QAAA,OAAsC,Ue/nBtB,Kf+nBsB,C;;Qe/nBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MftoBW,Q;MAAA,IehoBgB,KfgoBZ,IAAS,CAAT,IehoBY,KfgoBE,IAAS,0BAA3B,C;QAAA,OAAsC,UehoBtB,KfgoBsB,C;;QehoBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfuoBW,Q;MAAA,IejoBgB,KfioBZ,IAAS,CAAT,IejoBY,KfioBE,IAAS,0BAA3B,C;QAAA,OAAsC,UejoBtB,KfioBsB,C;;QejoBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfwoBW,Q;MAAA,IeloBgB,KfkoBZ,IAAS,CAAT,IeloBY,KfkoBE,IAAS,0BAA3B,C;QAAA,OAAsC,UelobtB,KfkosBsB,C;;QelobQ,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfyoBW,Q;MAAA,IenoBgB,KfmoBZ,IAAS,CAAT,IenoBY,KfmoBE,IAAS,0BAA3B,C;QAAA,OAAsC,UenoBtB,KfmoBsB,C;;QenoBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;Mf0oBW,Q;MAAA,IepoBgB,KfooBZ,IAAS,CAAT,IepoBY,KfooBE,IAAS,0BAA3B,C;QAAA,OAAsC,UepoBtB,KfooBsB,C;;QepoBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;Mf2oBW,Q;MAAA,IeroBgB,KfqoBZ,IAAS,CAAT,IeroBY,KfqoBE,IAAS,0BAA3B,C;QAAA,OAAsC,UeroBtB,KfqoBsB,C;;QeroBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;Mf4oBW,Q;MAAA,IetoBgB,KfsoBZ,IAAS,CAAT,IetoBY,KfsoBE,IAAS,0BAA3B,C;QAAA,OAAsC,UetoBtB,KfsoBsB,C;;QetoBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;Mf6oBW,Q;MAAA,IevoBgB,KfuoBZ,IAAS,CAAT,IevoBY,KfuoBE,IAAS,0BAA3B,C;QAAA,OAAsC,UevoBtB,KfuoBsB,C;;QevoBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;Mf8oBW,Q;MAAA,IexoBgB,KfwoBZ,IAAS,CAAT,IexoBY,KfwoBE,IAAS,0BAA3B,C;QAAA,OAAsC,UexoBtB,KfwoBsB,C;;QexoBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;Mf+oBW,Q;MAAA,IezoBgB,KfyoBZ,IAAS,CAAT,IezoBY,KfyoBE,IAAS,0BAA3B,C;QAAA,OAAsC,UezoBtB,KfyoBsB,C;;QezoBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfgpBW,Q;MAAA,Ie1oBgB,Kf0oBZ,IAAS,CAAT,Ie1oBY,Kf0oBE,IAAS,0BAA3B,C;QAAA,OAAsC,Ue1oBtB,Kf0oBsB,C;;Qe1oBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfipBW,Q;MAAA,Ie3oBgB,Kf2oBZ,IAAS,CAAT,Ie3oBY,Kf2oBE,IAAS,0BAA3B,C;QAAA,OAAsC,Ue3oBtB,Kf2oBsB,C;;Qe3oBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfkpBW,Q;MAAA,Ie5oBgB,Kf4oBZ,IAAS,CAAT,Ie5oBY,Kf4oBE,IAAS,0BAA3B,C;QAAA,OAAsC,Ue5oBtB,Kf4oBsB,C;;Qe5oBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfmpBW,Q;MAAA,Ie7oBgB,Kf6oBZ,IAAS,CAAT,Ie7oBY,Kf6oBE,IAAS,0BAA3B,C;QAAA,OAAsC,Ue7oBtB,Kf6oBsB,C;;Qe7oBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfopBW,Q;MAAA,Ie9oBgB,Kf8oBZ,IAAS,CAAT,Ie9oBY,Kf8oBE,IAAS,0BAA3B,C;QAAA,OAAsC,Ue9oBtB,Kf8oBsB,C;;Qe9oBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfqpBW,Q;MAAA,Ie/oBgB,Kf+oBZ,IAAS,CAAT,Ie/oBY,Kf+oBE,IAAS,0BAA3B,C;QAAA,OAAsC,Ue/oBtB,Kf+oBsB,C;;Qe/oBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MftpBW,Q;MAAA,IehpBgB,KfgpBZ,IAAS,CAAT,IehpBY,KfgpBE,IAAS,0BAA3B,C;QAAA,OAAsC,UehpBtB,KfgpBsB,C;;QehpBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfupBW,Q;MAAA,IejpBgB,KfipBZ,IAAS,CAAT,IejpBY,KfipBE,IAAS,0BAA3B,C;QAAA,OAAsC,UejpBtB,KfipBsB,C;;QejpBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfwpBW,Q;MAAA,IelpBgB,KfkpBZ,IAAS,CAAT,IelpBY,KfkpBE,IAAS,0BAA3B,C;QAAA,OAAsC,UelobtB,KfkosBsB,C;;QelobQ,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfypBW,Q;MAAA,IenpBgB,KfmpBZ,IAAS,CAAT,IenpBY,KfmpBE,IAAS,0BAA3B,C;QAAA,OAAsC,UenpBtB,KfmpBsB,C;;QenpBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;Mf0pBW,Q;MAAA,IepoBgB,KfooBZ,IAAS,CAAT,IepoBY,KfooBE,IAAS,0BAA3B,C;QAAA,OAAsC,UepoBtB,KfooBsB,C;;QepoBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;Mf2pBW,Q;MAAA,IeroBgB,KfqoBZ,IAAS,CAAT,IeroBY,KfqoBE,IAAS,0BAA3B,C;QAAA,OAAsC,UeroBtB,KfqoBsB,C;;QeroBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;Mf4pBW,Q;MAAA,IetoBgB,KfsoBZ,IAAS,CAAT,IetoBY,KfsoBE,IAAS,0BAA3B,C;QAAA,OAAsC,UetoBtB,KfsoBsB,C;;QetoBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;Mf6pBW,Q;MAAA,IevoBgB,KfuoBZ,IAAS,CAAT,IevoBY,KfuoBE,IAAS,0BAA3B,C;QAAA,OAAsC,UevoBtB,KfuoBsB,C;;QevoBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;Mf8pBW,Q;MAAA,IexoBgB,KfwoBZ,IAAS,CAAT,IexoBY,KfwoBE,IAAS,0BAA3B,C;QAAA,OAAsC,UexoBtB,KfwoBsB,C;;QexoBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;Mf+pBW,Q;MAAA,IezoBgB,KfyoBZ,IAAS,CAAT,IezoBY,KfyoBE,IAAS,0BAA3B,C;QAAA,OAAsC,UezoBtB,KfyoBsB,C;;QezoBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfgqBW,Q;MAAA,Ie1oBgB,Kf0oBZ,IAAS,CAAT,Ie1oBY,Kf0oBE,IAAS,0BAA3B,C;QAAA,OAAsC,Ue1oBtB,Kf0oBsB,C;;Qe1oBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfiqBW,Q;MAAA,Ie3oBgB,Kf2oBZ,IAAS,CAAT,Ie3oBY,Kf2oBE,IAAS,0BAA3B,C;QAAA,OAAsC,Ue3oBtB,Kf2oBsB,C;;Qe3oBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfkqBW,Q;MAAA,Ie5oBgB,Kf4oBZ,IAAS,CAAT,Ie5oBY,Kf4oBE,IAAS,0BAA3B,C;QAAA,OAAsC,Ue5oBtB,Kf4oBsB,C;;Qe5oBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfmqBW,Q;MAAA,Ie7oBgB,Kf6oBZ,IAAS,CAAT,Ie7oBY,Kf6oBE,IAAS,0BAA3B,C;QAAA,OAAsC,Ue7oBtB,Kf6oBsB,C;;Qe7oBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfoqBW,Q;MAAA,Ie9oBgB,Kf8oBZ,IAAS,CAAT,Ie9oBY,Kf8oBE,IAAS,0BAA3B,C;QAAA,OAAsC,Ue9oBtB,Kf8oBsB,C;;Qe9oBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfqqBW,Q;MAAA,Ie/oBgB,Kf+oBZ,IAAS,CAAT,Ie/oBY,Kf+oBE,IAAS,0BAA3B,C;QAAA,OAAsC,Ue/oBtB,Kf+oBsB,C;;Qe/oBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MftqBW,Q;MAAA,IehpBgB,KfgpBZ,IAAS,CAAT,IehpBY,KfgpBE,IAAS,0BAA3B,C;QAAA,OAAsC,UehpBtB,KfgpBsB,C;;QehpBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfuqBW,Q;MAAA,IejpBgB,KfipBZ,IAAS,CAAT,IejpBY,KfipBE,IAAS,0BAA3B,C;QAAA,OAAsC,UejpBtB,KfipBsB,C;;QejpBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfwqBW,Q;MAAA,IelpBgB,KfkpBZ,IAAS,CAAT,IelpBY,KfkpBE,IAAS,0BAA3B,C;QAAA,OAAsC,UelobtB,KfkosBsB,C;;QelobQ,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfyqBW,Q;MAAA,IenpBgB,KfmpBZ,IAAS,CAAT,IenpBY,KfmpBE,IAAS,0BAA3B,C;QAAA,OAAsC,UenpBtB,KfmpBsB,C;;QenpBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;Mf0qBW,Q;MAAA,IepoBgB,KfooBZ,IAAS,CAAT,IepoBY,KfooBE,IAAS,0BAA3B,C;QAAA,OAAsC,UepoBtB,KfooBsB,C;;QepoBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;Mf2qBW,Q;MAAA,IeroBgB,KfqoBZ,IAAS,CAAT,IeroBY,KfqoBE,IAAS,0BAA3B,C;QAAA,OAAsC,UeroBtB,KfqoBsB,C;;QeroBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;Mf4qBW,Q;MAAA,IetoBgB,KfsoBZ,IAAS,CAAT,IetoBY,KfsoBE,IAAS,0BAA3B,C;QAAA,OAAsC,UetoBtB,KfsoBsB,C;;QetoBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;Mf6qBW,Q;MAAA,IevoBgB,KfuoBZ,IAAS,CAAT,IevoBY,KfuoBE,IAAS,0BAA3B,C;QAAA,OAAsC,UevoBtB,KfuoBsB,C;;QevoBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;Mf8qBW,Q;MAAA,IexoBgB,KfwoBZ,IAAS,CAAT,IexoBY,KfwoBE,IAAS,0BAA3B,C;QAAA,OAAsC,UexoBtB,KfwoBsB,C;;QexoBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;Mf+qBW,Q;MAAA,IezoBgB,KfyoBZ,IAAS,CAAT,IezoBY,KfyoBE,IAAS,0BAA3B,C;QAAA,OAAsC,UezoBtB,KfyoBsB,C;;QezoBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfgrBW,Q;MAAA,Ie1oBgB,Kf0oBZ,IAAS,CAAT,Ie1oBY,Kf0oBE,IAAS,0BAA3B,C;QAAA,OAAsC,Ue1oBtB,Kf0oBsB,C;;Qe1oBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfirBW,Q;MAAA,Ie3oBgB,Kf2oBZ,IAAS,CAAT,Ie3oBY,Kf2oBE,IAAS,0BAA3B,C;QAAA,OAAsC,Ue3oBtB,Kf2oBsB,C;;Qe3oBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfkrBW,Q;MAAA,Ie5oBgB,Kf4oBZ,IAAS,CAAT,Ie5oBY,Kf4oBE,IAAS,0BAA3B,C;QAAA,OAAsC,Ue5oBtB,Kf4oBsB,C;;Qe5oBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfmrBW,Q;MAAA,Ie7oBgB,Kf6oBZ,IAAS,CAAT,Ie7oBY,Kf6oBE,IAAS,0BAA3B,C;QAAA,OAAsC,Ue7oBtB,Kf6oBsB,C;;Qe7oBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MforBW,Q;MAAA,Ie9oBgB,Kf8oBZ,IAAS,CAAT,Ie9oBY,Kf8oBE,IAAS,0BAA3B,C;QAAA,OAAsC,Ue9oBtB,Kf8oBsB,C;;Qe9oBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfqrBW,Q;MAAA,Ie/oBgB,Kf+oBZ,IAAS,CAAT,Ie/oBY,Kf+oBE,IAAS,0BAA3B,C;QAAA,OAAsC,Ue/oBtB,Kf+oBsB,C;;Qe/oBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MftrBW,Q;MAAA,IehpBgB,KfgpBZ,IAAS,CAAT,IehpBY,KfgpBE,IAAS,0BAA3B,C;QAAA,OAAsC,UehpBtB,KfgpBsB,C;;QehpBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfurBW,Q;MAAA,IejpBgB,KfipBZ,IAAS,CAAT,IejpBY,KfipBE,IAAS,0BAA3B,C;QAAA,OAAsC,UejpBtB,KfipBsB,C;;QejpBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfwrBW,Q;MAAA,IelpBgB,KfkpBZ,IAAS,CAAT,IelpBY,KfkpBE,IAAS,0BAA3B,C;QAAA,OAAsC,UelobtB,KfkosBsB,C;;QelobQ,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfyrBW,Q;MAAA,IenpBgB,KfmpBZ,IAAS,CAAT,IenpBY,KfmpBE,IAAS,0BAA3B,C;QAAA,OAAsC,UenpBtB,KfmpBsB,C;;QenpBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;Mf0rBW,Q;MAAA,IepoBgB,KfooBZ,IAAS,CAAT,IepoBY,KfooBE,IAAS,0BAA3B,C;QAAA,OAAsC,UepoBtB,KfooBsB,C;;QepoBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;Mf2rBW,Q;MAAA,IeroBgB,KfqoBZ,IAAS,CAAT,IeroBY,KfqoBE,IAAS,0BAA3B,C;QAAA,OAAsC,UeroBtB,KfqoBsB,C;;QeroBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;Mf4rBW,Q;MAAA,IetoBgB,KfsoBZ,IAAS,CAAT,IetoBY,KfsoBE,IAAS,0BAA3B,C;QAAA,OAAsC,UetoBtB,KfsoBsB,C;;QetoBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;Mf6rBW,Q;MAAA,IevoBgB,KfuoBZ,IAAS,CAAT,IevoBY,KfuoBE,IAAS,0BAA3B,C;QAAA,OAAsC,UevoBtB,KfuoBsB,C;;QevoBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;Mf8rBW,Q;MAAA,IexoBgB,KfwoBZ,IAAS,CAAT,IexoBY,KfwoBE,IAAS,0BAA3B,C;QAAA,OAAsC,UexoBtB,KfwoBsB,C;;QexoBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;Mf+rBW,Q;MAAA,IezoBgB,KfyoBZ,IAAS,CAAT,IezoBY,KfyoBE,IAAS,0BAA3B,C;QAAA,OAAsC,UezoBtB,KfyoBsB,C;;QezoBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfgsBW,Q;MAAA,Ie1oBgB,Kf0oBZ,IAAS,CAAT,Ie1oBY,Kf0oBE,IAAS,0BAA3B,C;QAAA,OAAsC,Ue1oBtB,Kf0oBsB,C;;Qe1oBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfisBW,Q;MAAA,Ie3oBgB,Kf2oBZ,IAAS,CAAT,Ie3oBY,Kf2oBE,IAAS,0BAA3B,C;QAAA,OAAsC,Ue3oBtB,Kf2oBsB,C;;Qe3oBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfksBW,Q;MAAA,Ie5oBgB,Kf4oBZ,IAAS,CAAT,Ie5oBY,Kf4oBE,IAAS,0BAA3B,C;QAAA,OAAsC,Ue5oBtB,Kf4oBsB,C;;Qe5oBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfmsBW,Q;MAAA,Ie7oBgB,Kf6oBZ,IAAS,CAAT,Ie7oBY,Kf6oBE,IAAS,0BAA3B,C;QAAA,OAAsC,Ue7oBtB,Kf6oBsB,C;;Qe7oBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfosBW,Q;MAAA,Ie9oBgB,Kf8oBZ,IAAS,CAAT,Ie9oBY,Kf8oBE,IAAS,0BAA3B,C;QAAA,OAAsC,Ue9oBtB,Kf8oBsB,C;;Qe9oBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfqsBW,Q;MAAA,Ie/oBgB,Kf+oBZ,IAAS,CAAT,Ie/oBY,Kf+oBE,IAAS,0BAA3B,C;QAAA,OAAsC,Ue/oBtB,Kf+oBsB,C;;Qe/oBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MftsBW,Q;MAAA,IehpBgB,KfgpBZ,IAAS,CAAT,IehpBY,KfgpBE,IAAS,0BAA3B,C;QAAA,OAAsC,UehpBtB,KfgpBsB,C;;QehpBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfusBW,Q;MAAA,IejpBgB,KfipBZ,IAAS,CAAT,IejpBY,KfipBE,IAAS,0BAA3B,C;QAAA,OAAsC,UejpBtB,KfipBsB,C;;QejpBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfwsBW,Q;MAAA,IelpBgB,KfkpBZ,IAAS,CAAT,IelpBY,KfkpBE,IAAS,0BAA3B,C;QAAA,OAAsC,UelobtB,KfkosBsB,C;;QelobQ,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfysBW,Q;MAAA,IenpBgB,KfmpBZ,IAAS,CAAT,IenpBY,KfmpBE,IAAS,0BAA3B,C;QAAA,OAAsC,UenpBtB,KfmpBsB,C;;QenpBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;Mf0sBW,Q;MAAA,IepoBgB,KfooBZ,IAAS,CAAT,IepoBY,KfooBE,IAAS,0BAA3B,C;QAAA,OAAsC,UepoBtB,KfooBsB,C;;QepoBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;Mf2sBW,Q;MAAA,IeroBgB,KfqoBZ,IAAS,CAAT,IeroBY,KfqoBE,IAAS,0BAA3B,C;QAAA,OAAsC,UeroBtB,KfqoBsB,C;;QeroBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;Mf4sBW,Q;MAAA,IetoBgB,KfsoBZ,IAAS,CAAT,IetoBY,KfsoBE,IAAS,0BAA3B,C;QAAA,OAAsC,UetoBtB,KfsoBsB,C;;QetoBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;Mf6sBW,Q;MAAA,IevoBgB,KfuoBZ,IAAS,CAAT,IevoBY,KfuoBE,IAAS,0BAA3B,C;QAAA,OAAsC,UevoBtB,KfuoBsB,C;;QevoBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;Mf8sBW,Q;MAAA,IexoBgB,KfwoBZ,IAAS,CAAT,IexoBY,KfwoBE,IAAS,0BAA3B,C;QAAA,OAAsC,UexoBtB,KfwoBsB,C;;QexoBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;Mf+sBW,Q;MAAA,IezoBgB,KfyoBZ,IAAS,CAAT,IezoBY,KfyoBE,IAAS,0BAA3B,C;QAAA,OAAsC,UezoBtB,KfyoBsB,C;;QezoBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfguBW,Q;MAAA,Ie1oBgB,Kf0oBZ,IAAS,CAAT,Ie1oBY,Kf0oBE,IAAS,0BAA3B,C;QAAA,OAAsC,Ue1oBtB,Kf0oBsB,C;;Qe1oBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfiuBW,Q;MAAA,Ie3oBgB,Kf2oBZ,IAAS,CAAT,Ie3oBY,Kf2oBE,IAAS,0BAA3B,C;QAAA,OAAsC,Ue3oBtB,Kf2oBsB,C;;Qe3oBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfkuBW,Q;MAAA,Ie5oBgB,Kf4oBZ,IAAS,CAAT,Ie5oBY,Kf4oBE,IAAS,0BAA3B,C;QAAA,OAAsC,Ue5oBtB,Kf4oBsB,C;;Qe5oBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfmuBW,Q;MAAA,Ie7oBgB,Kf6oBZ,IAAS,CAAT,Ie7oBY,Kf6oBE,IAAS,0BAA3B,C;QAAA,OAAsC,Ue7oBtB,Kf6oBsB,C;;Qe7oBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfouBW,Q;MAAA,Ie9oBgB,Kf8oBZ,IAAS,CAAT,Ie9oBY,Kf8oBE,IAAS,0BAA3B,C;QAAA,OAAsC,Ue9oBtB,Kf8oBsB,C;;Qe9oBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfquBW,Q;MAAA,Ie/oBgB,Kf+oBZ,IAAS,CAAT,Ie/oBY,Kf+oBE,IAAS,0BAA3B,C;QAAA,OAAsC,Ue/oBtB,Kf+oBsB,C;;Qe/oBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MftuBW,Q;MAAA,IehpBgB,KfgpBZ,IAAS,CAAT,IehpBY,KfgpBE,IAAS,0BAA3B,C;QAAA,OAAsC,UehpBtB,KfgpBsB,C;;QehpBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfuuBW,Q;MAAA,IejpBgB,KfipBZ,IAAS,CAAT,IejpBY,KfipBE,IAAS,0BAA3B,C;QAAA,OAAsC,UejpBtB,KfipBsB,C;;QejpBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B

C;K;IAGhB,uC;MAOI,OAAY,gBAAL,SAAK,C;K;IAGhB,uC;MAOI,OAAY,gBAAL,SAAK,C;K;IAGhB,uC;MA
OI,OAAY,gBAAL,SAAK,C;K;IAGhB,uC;MAOI,OAAY,gBAAL,SAAK,C;K;IAGhB,uC;MAOI,OAAY,gBAAL,S
AAK,C;K;IAGhB,uC;MAOI,OAAY,gBAAL,SAAK,C;K;IAoFhB,sC;MASI,OAAY,gBAAL,SAAK,C;K;IAGhB,s
C;MASI,OAAY,gBAAL,SAAK,C;K;IAGhB,uC;MASI,OAAY,gBAAL,SAAK,C;K;IAGhB,uC;MASI,OAAY,gBA
AL,SAAK,C;K;IAGhB,uC;MASI,OAAY,gBAAL,SAAK,C;K;IAGhB,uC;MASI,OAAY,gBAAL,SAAK,C;K;IAGh
B,uC;MASI,OAAY,gBAAL,SAAK,C;K;IAGhB,uC;MASI,OAAY,gBAAL,SAAK,C;K;IAGhB,uC;MASI,OAAY,g
BAAL,SAAK,C;K;wFAsGhB,yB;MAAA,8C;MAAA,kF;QAmB0E,iC;UAAA,oBAAyB,C;QAAG,0B;UAAA,aAA
kB,C;QAAG,wB;UAAA,WAAgB,gB;QACvI,UAAU,SAAV,EAAgB,WAAhB,EAA6B,iBAA7B,EAAgD,UAAhD,
EAA4D,QAA5D,C;QACA,OAAO,W;O;KArBX,C;wFAwBA,yB;MAAA,8C;MAAA,kF;QAmBoE,iC;UAAA,oBA
AyB,C;QAAG,0B;UAAA,aAAkB,C;QAAG,wB;UAAA,WAAgB,gB;QACjI,UAAU,SAAV,EAA0C,WAA1C,EAA
iF,iBAAjF,EAAoG,UAApG,EAAgH,QAAhH,C;QACA,OAAO,W;O;KArBX,C;wFAwBA,yB;MAAA,8C;MAAA,
kF;QAmBsE,iC;UAAA,oBAAyB,C;QAAG,0B;UAAA,aAAkB,C;QAAG,wB;UAAA,WAAgB,gB;QACnI,UAAU,
SAAV,EAA2C,WAA3C,EAAmF,iBAAnF,EAAsG,UAAtG,EAAkH,QAAlH,C;QACA,OAAO,W;O;KArBX,C;wF
AwBA,yB;MAAA,8C;MAAA,kF;QAmBkE,iC;UAAA,oBAAyB,C;QAAG,0B;UAAA,aAAkB,C;QAAG,wB;UAA
A,WAAgB,gB;QAC/H,UAAU,SAAV,EAAyC,WAAzC,EAA+E,iBAA/E,EAAkG,UAAlG,EAA8G,QAA9G,C;QA
CA,OAAO,W;O;KArBX,C;wFAwBA,yB;MAAA,8C;MAAA,kF;QAmBoE,iC;UAAA,oBAAyB,C;QAAG,0B;UA
AA,aAAkB,C;QAAG,wB;UAAA,WAAgB,gB;QACjI,UAAU,SAAV,EAA0C,WAA1C,EAAiF,iBAAjF,EAAoG,U
AApG,EAAgH,QAAhH,C;QACA,OAAO,W;O;KArBX,C;wFAwBA,yB;MAAA,8C;MAAA,kF;QAmBsE,iC;UAA
A,oBAAyB,C;QAAG,0B;UAAA,aAAkB,C;QAAG,wB;UAAA,WAAgB,gB;QACnI,UAAU,SAAV,EAA2C,WAA3
C,EAAmF,iBAAnF,EAAsG,UAAtG,EAAkH,QAAlH,C;QACA,OAAO,W;O;KArBX,C;uFAwBA,yB;MAAA,8C;
MAAA,kF;QAmBwE,iC;UAAA,oBAAyB,C;QAAG,0B;UAAA,aAAkB,C;QAAG,wB;UAAA,WAAgB,gB;QACrI,
UAAU,SAAV,EAA4C,WAA5C,EAAqF,iBAArF,EAAwG,UAAxG,EAAoH,QAApH,C;QACA,OAAO,W;O;KArB
X,C;yFAwBA,yB;MAAA,8C;MAAA,kF;QAmB0E,iC;UAAA,oBAAyB,C;QAAG,0B;UAAA,aAAkB,C;QAAG,w
B;UAAA,WAAgB,gB;QACvI,UAAU,SAAV,EAA6C,WAA7C,EAAuF,iBAAvF,EAA0G,UAA1G,EAAsH,QAAtH
,C;QACA,OAAO,W;O;KArBX,C;yFAwBA,yB;MAAA,8C;MAAA,kF;QAmBoE,iC;UAAA,oBAAyB,C;QAAG,0
B;UAAA,aAAkB,C;QAAG,wB;UAAA,WAAgB,gB;QACjI,UAAU,SAAV,EAA0C,WAA1C,EAAiF,iBAAjF,EAA
oG,UAApG,EAAgH,QAAhH,C;QACA,OAAO,W;O;KArBX,C;oFAwBA,qB;MAOI,OAAY,SAAY,Q;K;oFAG5B,
qB;MAOI,OAAY,SAAY,Q;K;oFAG5B,qB;MAOI,OAAY,SAAY,Q;K;qFAG5B,qB;MAOI,OAAY,SAAY,Q;K;IA
G5B,8B;MAMW,WAAS,W;MAAT,YAA2B,SAAY,Q;MwCl7B9C,eAAiB,I;MxCk7BjB,OwCj7BO,K;K;qFxCo7B
X,qB;MAOI,OAAY,SAAY,Q;K;qFAG5B,qB;MAOI,OAAY,SAAY,Q;K;IAG5B,8B;MAMW,WAAS,c;MAAT,YA
A8B,SAAY,Q;MwC/8BjD,eAAiB,I;MxC+8BjB,OwC98BO,K;K;IxCi9BX,8B;MAMW,WAAS,W;MAAT,YAA2B,
SAAY,Q;MwCx9B9C,eAAiB,I;MxCw9BjB,OwCv9BO,K;K;IxC09BX,uC;MD5oCI,IAAI,ECspCI,WAAW,CDtpC
f,CAAJ,C;QACI,cCqpCoB,0C;QDppCpB,MAAM,gCAAyB,OAAQ,WAAjC,C;OCqpCV,OAAO,SAAS,SAAT,EA
Ae,cAAU,OAAV,CAAf,C;K;IAGX,uC;MD1pCI,IAAI,ECoqCI,WAAW,CDpqCf,CAAJ,C;QACI,cCmqCoB,0C;Q
DlqCpB,MAAM,gCAAyB,OAAQ,WAAjC,C;OCmqCV,OAAO,SAAS,SAAT,EAAe,eAAW,OAAX,CAAf,C;K;IA
GX,uC;MDxqCI,IAAI,ECkrCI,WAAW,CDlrCf,CAAJ,C;QACI,cCirCoB,0C;QDhrCpB,MAAM,gCAAyB,OAAQ,
WAAjC,C;OCirCV,OAAO,SAAS,SAAT,EAAe,eAAS,OAAT,CAAf,C;K;IAGX,uC;MDtrCI,IAAI,ECgsCI,WAA
W,CDhsCf,CAAJ,C;QACI,cC+rCoB,0C;QD9rCpB,MAAM,gCAAyB,OAAQ,WAAjC,C;OC+rCH,WAAS,W;MA
AT,YAAsB,gBAAgB,SAAhB,EAAsB,OAAtB,K;MwChhC7B,eAAiB,I;MxCghCjB,OwC/gCO,K;K;IxCkhCX,uC;
MDpsCI,IAAI,EC8sCI,WAAW,CD9sCf,CAAJ,C;QACI,cC6sCoB,0C;QD5sCpB,MAAM,gCAAyB,OAAQ,WAAj
C,C;OC6sCV,OAAO,SAAS,SAAT,EAAe,iBAAW,OAAX,CAAf,C;K;IAGX,uC;MDltCI,IAAI,EC4tCI,WAAW,C
D5tCf,CAAJ,C;QACI,cC2tCoB,0C;QD1tCpB,MAAM,gCAAyB,OAAQ,WAAjC,C;OC2tCV,OAAO,SAAS,SAAT,
EAAe,iBAAY,OAAZ,CAAf,C;K;IAGX,uC;MDhuCI,IAAI,EC0uCI,WAAW,CD1uCf,CAAJ,C;QACI,cCyuCoB,0C
;QDxuCpB,MAAM,gCAAyB,OAAQ,WAAjC,C;OCyuCH,WAAS,c;MAAT,YAAAyB,gBAAgB,SAAhB,EAAsB,O
AAtB,EAA+B,KAA/B,C;MwC1jChC,eAAiB,I;MxC0jCjB,OwCzjCO,K;K;IxC4jCX,uC;MD9uCI,IAAI,ECwvCI,W
AAW,CDxvCf,CAAJ,C;QACI,cCuvCoB,0C;QDtvCpB,MAAM,gCAAyB,OAAQ,WAAjC,C;OCuvCH,WAAS,W;
MAAT,YAAsB,SAAS,SAAT,EAAe,iBAAU,OAAV,CAAf,C;MwCxkC7B,eAAiB,I;MxCwkCjB,OwCvkCO,K;K;I
xC0kCX,uC;MD5vCI,IAAI,ECuwCI,WAAW,CDvwCf,CAAJ,C;QACI,cCswCoB,0C;QDrwCpB,MAAM,gCAAyB

,OAAQ,WAAjC,C;OCswCV,OAAO,gBAAgB,SAAhB,EAAsB,OAAtB,EAA+B,IAA/B,C;K;IAGX,sD;MAWI,oC
AAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACb,OAAY,SAAY,OAAM,SAAN,EAAiB,OAAjB,
C;K;IAG5B,sD;MAUI,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACb,OAAY,SAAY,OAA
M,SAAN,EAAiB,OAAjB,C;K;IAG5B,sD;MAUI,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;M
ACb,OAAY,SAAY,OAAM,SAAN,EAAiB,OAAjB,C;K;IAG5B,sD;MAUI,oCAAa,2BAAkB,SAAlB,EAA6B,OAA
7B,EAAsC,gBAAtC,C;MACb,OAAY,SAAY,OAAM,SAAN,EAAiB,OAAjB,C;K;IAG5B,sD;MAUI,oCAAa,2BA
AkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACN,WAAS,W;MAAT,YAA2B,SAAY,OAAM,SAAN,EAAi
B,OAAjB,C;MwC9pC9C,eAAiB,I;MxC8pCjB,OwC7pCO,K;K;IxCgqCX,sD;MAUI,oCAAa,2BAAkB,SAAlB,EA
A6B,OAA7B,EAAsC,gBAAtC,C;MACb,OAAY,SAAY,OAAM,SAAN,EAAiB,OAAjB,C;K;IAG5B,sD;MAUI,oC
AAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACb,OAAY,SAAY,OAAM,SAAN,EAAiB,OAAjB,
C;K;IAG5B,uD;MAUI,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACN,WAAS,c;MAAT,Y
AA8B,SAAY,OAAM,SAAN,EAAiB,OAAjB,C;MwCxsCjD,eAAiB,I;MxCwsCjB,OwCvsCO,K;K;IxC0sCX,uD;M
AUI,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACN,WAAS,W;MAAT,YAA2B,SAAY,OA
AM,SAAN,EAAiB,OAAjB,C;MwCttC9C,eAAiB,I;MxCstCjB,OwCrtCO,K;K;IxCwtCX,wD;MAWgD,yB;QAAA,
YAAiB,C;MAAG,uB;QAAA,UAAe,gB;MAC/E,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;M
ACR,SAAY,MAAK,OAAL,EAAc,SAAd,EAAyB,OAAzB,C;K;IAGrB,wD;MAWgD,yB;QAAA,YAAiB,C;MAAG
,uB;QAAA,UAAe,gB;MAC/E,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACR,SAAY,MAA
K,OAAL,EAAc,SAAd,EAAyB,OAAzB,C;K;IAGrB,wD;MAWkD,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe
,gB;MACjF,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACR,SAAY,MAAK,OAAL,EAAc,S
AAd,EAAyB,OAAzB,C;K;IAGrB,wD;MAW8C,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,gB;MAC7E,oCA
Aa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACR,SAAY,MAAK,OAAL,EAAc,SAAd,EAAyB,OA
AzB,C;K;IAGrB,wD;MAWgD,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,gB;MAC/E,oCAAa,2BAAkB,SAA
lB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACR,SAAY,MAAK,OAAL,EAAc,SAAd,EAAyB,OAAzB,C;K;IAGrB,
wD;MAWkD,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,gB;MACjF,oCAAa,2BAAkB,SAAlB,EAA6B,OAA
7B,EAAsC,gBAAtC,C;MACR,SAAY,MAAK,OAAL,EAAc,SAAd,EAAyB,OAAzB,C;K;IAGrB,wD;MAWoD,yB;
QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,gB;MACnF,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAA
tC,C;MACR,SAAY,MAAK,OAAL,EAAc,SAAd,EAAyB,OAAzB,C;K;IAGrB,yD;MAWsD,yB;QAAA,YAAiB,C;
MAAG,uB;QAAA,UAAe,gB;MACrF,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACR,SAA
Y,MAAK,OAAL,EAAc,SAAd,EAAyB,OAAzB,C;K;IAGrB,yD;MAWgD,yB;QAAA,YAAiB,C;MAAG,uB;QAA
A,UAAe,gB;MAC/E,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACR,SAAY,MAAK,OAAL
,EAAc,SAAd,EAAyB,OAAzB,C;K;iFAGrB,8B;MAKI,OAAY,SAAY,QAAO,CAAQ,OAAR,CAAP,C;K;iFAG5B,
yB;MAwIA,iD;MAxIA,qC;QAKI,OAwIO,gCAxIK,eAAY,OAAZ,EAwIL,C;O;KA7IX,C;iFAQA,yB;MAwIA,iD;
MAxIA,qC;QAKI,OAwIO,gCAxIK,gBAAa,OAAb,EAwIL,C;O;KA7IX,C;iFAQA,yB;MAwIA,iD;MAxIA,qC;QA
KI,OAwIO,gCAxIK,gBAAW,OAAX,EAwIL,C;O;KA7IX,C;iFAQA,yB;MAwIA,iD;MAxIA,qC;QAKI,OAwIO,gC
AxIK,mBAAY,OAAZ,CAwIL,C;O;KA7IX,C;iFAQA,yB;MAwIA,iD;MAxIA,qC;QAKI,OAwIO,gCAxIK,kBAAa,
OAAb,EAwIL,C;O;KA7IX,C;gFAQA,yB;MAwIA,iD;MAxIA,qC;QAKI,OAwIO,gCAxIK,kBAAc,OAAd,EAwIL,
C;O;KA7IX,C;iFAQA,yB;MAwIA,iD;MAxIA,qC;QAKI,OAwIO,gCAxIK,sBAAe,OAAf,CAwIL,C;O;KA7IX,C;iF
AQA,yB;MAwIA,iD;MAxIA,qC;QAKI,OAwIO,gCAxIK,mBAAY,OAAZ,CAwIL,C;O;KA7IX,C;IAQA,sC;MAKI
,OAAO,oBAAoB,SAApB,EAA0B,QAA1B,C;K;IAGX,sC;MAII,OAAO,mBAAwB,UAAL,SAAK,EAAO,mBAAO
,QAAS,KAAhB,IAAP,CAAxB,EAAsD,SAAK,OAA3D,EAAiE,QAAjE,C;K;IAGX,sC;MAII,OAAO,mBAAwB,U
AAL,SAAK,EAAO,mBAAO,QAAS,KAAhB,IAAP,CAAxB,EAAsD,SAAK,OAA3D,EAAiE,QAAjE,C;K;IAGX,s
C;MAII,OAAO,mBAAwB,UAAL,SAAK,EAAO,mBAAO,QAAS,KAAhB,IAAP,CAAxB,EAAsD,SAAK,OAA3D,
EAAiE,QAAjE,C;K;IAGX,sC;MAII,OAAO,oBAAoB,SAApB,EAA0B,QAA1B,C;K;IAGX,sC;MAII,OAAO,mBA
AwB,UAAL,SAAK,EAAO,mBAAO,QAAS,KAAhB,IAAP,CAAxB,EAAsD,SAAK,OAA3D,EAAiE,QAAjE,C;K;I
AGX,sC;MAII,OAAO,mBAAwB,UAAL,SAAK,EAAO,mBAAO,QAAS,KAAhB,IAAP,CAAxB,EAAsD,SAAK,O
AA3D,EAAiE,QAAjE,C;K;IAGX,sC;MAII,OAAO,oBAAoB,SAApB,EAA0B,QAA1B,C;K;IAGX,sC;MAII,OAA
O,mBAAwB,UAAL,SAAK,EAAO,mBAAO,QAAS,KAAhB,IAAP,CAAxB,EAAsD,SAAK,OAA3D,EAAiE,QAAj
E,C;K;iFAGX,+B;MAKI,OAAY,SAAY,QAAO,QAAP,C;K;iFAG5B,yB;MAAA,iD;MAAA,sC;QAKI,OAAO,qBA

AqB,SAArB,EAA2B,QAA3B,C;O;KALX,C;iFAQA,yB;MAAA,iD;MAAA,sC;QAKI,OAAO,qBAAqB,SAArB,EA
A2B,QAA3B,C;O;KALX,C;iFAQA,yB;MAAA,iD;MAAA,sC;QAKI,OAAO,qBAAqB,SAArB,EAA2B,QAA3B,C;
O;KALX,C;iFAQA,yB;MAAA,iD;MAAA,sC;QAKI,OAAO,qBAAqB,SAArB,EAA2B,QAA3B,C;O;KALX,C;iFA
QA,yB;MAAA,iD;MAAA,sC;QAKI,OAAO,qBAAqB,SAArB,EAA2B,QAA3B,C;O;KALX,C;iFAQA,yB;MAAA,i
D;MAAA,sC;QAKI,OAAO,qBAAqB,SAArB,EAA2B,QAA3B,C;O;KALX,C;iFAQA,yB;MAAA,iD;MAAA,sC;Q
AKI,OAAO,qBAAqB,SAArB,EAA2B,QAA3B,C;O;KALX,C;iFAQA,yB;MAAA,iD;MAAA,sC;QAKI,OAAO,qB
AAqB,SAArB,EAA2B,QAA3B,C;O;KALX,C;8FAQA,8B;MAKI,OAAY,SAAY,QAAO,CAAQ,OAAR,CAAP,C;
K;IAoBL,2B;MAAsB,OAAA,CAAE,iBAAU,CAAV,C;K;IAP/C,2B;MAOI,IAAI,mBAAO,CAAX,C;QAwQY,eAx
QO,WAwQP,C;Q;IAnNhB,2B;MAQI,IAAI,mBAAO,CAAX,C;QAAc,UAAU,SAAV,C;K;IAGlB,wC;MAQI,IAAI,
mBAAO,CAAX,C;QAAc,cAAc,SAAd,EAAoB,UAApB,C;K;IAGlB,gD;MAewD,yB;QAAA,YAAiB,C;MAAG,uB
;QAAA,UAAe,gB;MACvF,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACb,gBAAc,SAAd,E
AAoB,SAApB,EAA+B,OAA/B,EAAwC,cAAxC,C;K;IAGJ,gD;MAaiC,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,U
AAe,gB;MAChE,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACb,eAAoB,SAAY,UAAS,SA
AT,EAAoB,OAApB,C;MACvB,KAAT,QAAS,C;K;IAGb,gD;MAakC,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,U
AAe,gB;MACjE,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACb,eAAoB,SAAY,UAAS,SA
AT,EAAoB,OAApB,C;MACvB,KAAT,QAAS,C;K;IAGb,gD;MAagC,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,U
AAe,gB;MAC/D,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACb,eAAoB,SAAY,UAAS,SA
AT,EAAoB,OAApB,C;MACvB,KAAT,QAAS,C;K;IAGb,gD;MAaiC,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UA
Ae,gB;MAChE,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACb,gBAAc,SAAd,EAA8C,SAA
9C,EAAyD,OAAzD,EAAkE,cAAlE,C;K;IAGJ,gD;MAakC,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,gB;M
ACjE,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACb,eAAoB,SAAY,UAAS,SAAT,EAAoB
,OAApB,C;MACvB,KAAT,QAAS,C;K;IAGb,gD;MAamC,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,gB;M
AClE,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACb,eAAoB,SAAY,UAAS,SAAT,EAAoB
,OAApB,C;MACvB,KAAT,QAAS,C;K;IAGb,gD;MAaiC,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,gB;MA
ChE,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACb,eAAoB,SAAY,UAAS,SAAT,EAAoB,
OAApB,C;MACvB,KAAT,QAAS,C;K;iFAGb,iC;MAOI,SAAY,MAAK,UAAL,C;K;iFAGhB,iC;MAOI,SAAY,M
AAK,UAAL,C;K;iFAGhB,iC;MAOI,SAAY,MAAK,UAAL,C;K;iFAGhB,iC;MAOI,SAAY,MAAK,UAAL,C;K;iF
AGhB,iC;MAOI,SAAY,MAAK,UAAL,C;K;iFAGhB,iC;MAOI,SAAY,MAAK,UAAL,C;K;iFAGhB,iC;MAOI,SA
AY,MAAK,UAAL,C;K;IAGhB,yC;MAMI,IAAI,mBAAO,CAAX,C;QAAc,gBAAc,SAAd,EAAoB,UAApB,C;K;I
AGlB,+D;MAa0E,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,gB;MACzG,oCAAa,2BAAkB,SAAlB,EAA6B,
OAA7B,EAAsC,gBAAtC,C;MACb,gBAAc,SAAd,EAAoB,SAApB,EAA+B,OAA/B,EAAwC,UAAxC,C;K;IAGJ,
mC;MAII,OAAO,EAAS,MAAM,MAAK,SAAL,C;K;IAG1B,mC;MAII,OAAO,EAAS,MAAM,MAAK,SAAL,C;K
;IAG1B,mC;MAII,OAAO,EAAS,MAAM,MAAK,SAAL,C;K;IAG1B,mC;MAII,OAAO,EAAS,MAAM,MAAK,S
AAL,C;K;IAG1B,mC;MAII,OAAO,EAAS,MAAM,MAAK,SAAL,C;K;IAG1B,mC;MAII,OAAO,EAAS,MAAM,
MAAK,SAAL,C;K;IAG1B,mC;MAII,OAAO,EAAS,MAAM,MAAK,SAAL,C;K;IAOH,kD;MAAA,wB;QAAW,q
CAAK,KAAL,E;O;K;IAJlC,oC;MAII,OAAO,iBAAM,gBAAN,EAAY,gCAAZ,C;K;IuDnpEX,oB;MAAA,wB;MA
EI,6B;MACA,gC;MAKuB,UAAT,MAAS,EAAT,MAAS,EAAT,M;MAFV,eAAe,kE;MACf,iBAAiB,eAAS,GAAT,
C;MACE,sBAAT,QAAS,C;MAAT,mB;MAAA,kB;MAAA,kB;MAAV,8C;QACI,WAAW,oBAAS,CAAT,CzC2Bu
B,IyC3BlC,IAA+B,C;;MAInC,qBAAqB,48C;MACrB,WAAW,mBAAmB,cAAnB,EAAmC,UAAnC,EAA+C,IAA/
C,C;MACX,YAAY,eAAS,IAAK,OAAL,GAAY,CAAZ,IAAT,C;MACZ,0BAAU,IAAV,e;QACI,MAAM,MAAI,C
AAJ,IAAN,IAAe,MAAM,GAAN,IAAW,KAAK,GAAL,CAAX,I;;MAEnB,yBAAoB,K;MAGpB,oBAAoB,m/D;M
ACpB,4BAAuB,mBAAmB,aAAnB,EAAkC,UAAlC,EAA8C,IAA9C,C;K;;;IAvB/B,gC;MAAA,+B;QAAA,c;OAA
A,wB;K;IA2BA,qC;MAKkB,IAJP,I;MACH,WAAO,EAAP,C;QAAe,W;WACf,WAAO,IAAP,C;QAAgB,OAAI,C
AAC,KAAO,CAAR,MAAc,CAAlB,GAAqB,QAAS,CAA9B,GAAqC,OAAS,E;;QAE1D,QAAM,KAAK,CAAX,C;
eACI,C;YAAK,eAS,E;YAAd,K;eACA,C;YAAK,OAAC,QAAS,CAAV,GAAiB,E;YAAtB,K;kBACQ,cAAS,E;Y
AHrB,K;;;MAJR,W;K;IAYJ,qC;MAII,SAAS,SzCRiC,I;MyCU1C,YAAY,kBAAkB,sBAAS,kBAA3B,EAA8C,EA
A9C,C;MACZ,YAAY,sBAAS,kBAAT,CAA2B,KAA3B,C;MACZ,WAAW,sBAAS,qBAAT,CAA8B,KAA9B,C;M
ACX,YAAY,kBAAkB,IAAlB,EAAwB,KAAK,KAAL,IAAxB,C;MAEZ,OAAW,UAAS,EAAb,GAAyC,mDAAzC,

GAAoD,K;K;IAG/D,8D;MAKiB,UAIE,M;MARf,aAAa,eAAS,YAAT,C;MACb,YAAY,C;MACZ,UAAU,C;MAC
V,YAAY,C;MACC,yB;MAAb,OAAa,cAAb,C;QAAa,iC;QACT,aAAa,WAAW,IzCxBc,IyCwBzB,C;QACb,MAA
M,MAAQ,CAAC,SAAW,EAAZ,KAAsB,K;QACpC,IAAI,SAAS,EAAb,C;UACI,OAAO,cAAP,EAAO,sBAAP,Y
AAkB,G;UAClB,MAAM,C;UACN,QAAQ,C;;UAER,gBAAS,CAAT,I;;;MAGR,OAAO,M;K;IClEX,+B;MAII,eA
Ae,CAAC,iBAAO,CAAP,IAAD,IAAa,CAAb,I;MACf,IAAI,WAAW,CAAf,C;QAAkB,M;MAClB,mBAAmB,2B;
MACnB,iBAAc,CAAd,WAAiB,QAAjB,U;QACI,UAAU,sBAAK,KAAL,C;QACV,sBAAK,KAAL,EAAc,sBAAK,
YAAL,CAAd,C;QACA,sBAAK,YAAL,EAAqB,GAArB,C;QACA,mC;;K;IrDbR,wB;MAOI,OAAW,oBAAK,CAA
L,MAAJ,GAAY,CAAZ,GAAmB,C;K;mFAG9B,yB;MAkBA,iB;MAlBA,uB;QAMI,OAkBO,MAAO,KAlBC,CAk
BD,EAlBY,CAkBZ,C;O;KAxBlB,C;mFASA,yB;MASA,iB;MATA,uB;QAMI,OASO,MAAO,KATC,CASD,EATY
,CASZ,C;O;KAflB,C;mFASA,yB;MAAA,iB;MAAA,uB;QAMI,OAAO,MAAO,KAAI,CAAJ,EAAO,CAAP,C;O;K
ANlB,C;mFASA,gB;MAMI,OAAW,kBAAK,CAAL,MAAJ,GAAY,CAAZ,GAAmB,C;K;mFAG9B,yB;MAAA,iB;
MAAA,uB;QAQI,OAAO,MAAO,KAAI,CAAJ,EAAO,CAAP,C;O;KARlB,C;mFAWA,yB;MAAA,iB;MAAA,uB;
QAQI,OAAO,MAAO,KAAI,CAAJ,EAAO,CAAP,C;O;KARlB,C;IAWA,2B;MAOI,OAAO,SAAM,CAAN,EAAS,
SAAM,CAAN,EAAS,CAAT,CAAT,C;K;mFAGX,yB;MAAA,iB;MAAA,0B;QAMI,OAAO,MAAO,KAAM,CAA
N,EAAiB,CAAjB,EAA4B,CAA5B,C;O;KANlB,C;mFASA,yB;MAAA,iB;MAAA,0B;QAMI,OAAO,MAAO,KAA
M,CAAN,EAAiB,CAAjB,EAA4B,CAA5B,C;O;KANlB,C;mFASA,yB;MAAA,iB;MAAA,0B;QAMI,OAAO,MAA
O,KAAI,CAAJ,EAAO,CAAP,EAAU,CAAV,C;O;KANlB,C;mFASA,mB;MAMW,UAAe,CApEX,iBAoEc,CApEd
,MAAJ,GAoEe,CApEf,GAoEkB,C;MAAzB,OAAa,CApEF,iBAAK,GAAL,MAAJ,GAoEM,CApEN,GAAmB,G;K;
mFAuE9B,yB;MAAA,iB;MAAA,0B;QAQI,OAAO,MAAO,KAAI,CAAJ,EAAO,CAAP,EAAU,CAAV,C;O;KARl
B,C;mFAWA,yB;MAAA,iB;MAAA,0B;QAQI,OAAO,MAAO,KAAI,CAAJ,EAAO,CAAP,EAAU,CAAV,C;O;KA
RlB,C;IAWA,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAA
M,SAAM,GAAN,EAAW,CAAX,C;;MACvB,OAAO,G;K;IAGX,4B;MAMc,Q;MADV,UAAU,C;MACV,wBAAU,
KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAxHV,MAAO,KAwHe,GAxHf,EAwHoB,CAxHpB,C;;MAyHd,O
AAO,G;K;IAGX,4B;MAMc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,M
AlIV,MAAO,KAkIe,GAlIf,EAkIoB,CAlIpB,C;;MAmId,OAAO,G;K;IAGX,4B;MAMc,Q;MADV,UAAU,C;MAC
V,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA5IV,MAAO,KA4Ie,GA5If,EA4IoB,CA5IpB,C;;MA6I
d,OAAO,G;K;IAGX,4B;MAMc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAu
B,UAAM,G;QAAZ,MA7IN,oBA6IuB,CA7IvB,MAAJ,GAAY,GAAZ,GA6I2B,C;;MAClC,OAAO,G;K;IAGX,4B;
MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA9IV,MAAO,KA8Ie,
GA9If,EA8IoB,CA9IpB,C;;MA+Id,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB
;QAAU,QAAA,KAAV,M;QAAiB,MA/IV,MAAO,KA+Ie,GA/If,EA+IoB,CA/IpB,C;;MAgJd,OAAO,G;K;IAGX,w
B;MAOI,OAAW,oBAAK,CAAL,MAAJ,GAAY,CAAZ,GAAmB,C;K;mFAG9B,yB;MAkBA,iB;MAlBA,uB;QAM
I,OAkBO,MAAO,KAlBC,CAkBD,EAlBY,CAkBZ,C;O;KAxBlB,C;mFASA,yB;MASA,iB;MATA,uB;QAMI,OAS
O,MAAO,KATC,CASD,EATY,CASZ,C;O;KAflB,C;mFASA,yB;MAAA,iB;MAAA,uB;QAMI,OAAO,MAAO,K
AAI,CAAJ,EAAO,CAAP,C;O;KANlB,C;mFASA,gB;MAMI,OAAW,kBAAK,CAAL,MAAJ,GAAY,CAAZ,GAA
mB,C;K;mFAG9B,yB;MAAA,iB;MAAA,uB;QAQI,OAAO,MAAO,KAAI,CAAJ,EAAO,CAAP,C;O;KARlB,C;mF
AWA,yB;MAAA,iB;MAAA,uB;QAQI,OAAO,MAAO,KAAI,CAAJ,EAAO,CAAP,C;O;KARlB,C;IAWA,2B;MA
OI,OAAO,SAAM,CAAN,EAAS,SAAM,CAAN,EAAS,CAAT,CAAT,C;K;mFAGX,yB;MAAA,iB;MAAA,0B;QA
MI,OAAO,MAAO,KAAM,CAAN,EAAiB,CAAjB,EAA4B,CAA5B,C;O;KANlB,C;mFASA,yB;MAAA,iB;MAAA
,0B;QAMI,OAAO,MAAO,KAAM,CAAN,EAAiB,CAAjB,EAA4B,CAA5B,C;O;KANlB,C;mFASA,yB;MAAA,iB
;MAAA,0B;QAMI,OAAO,MAAO,KAAI,CAAJ,EAAO,CAAP,EAAU,CAAV,C;O;KANlB,C;mFASA,mB;MAM
W,UAAe,CApEX,iBAoEc,CApEd,MAAJ,GAoEe,CApEf,GAoEkB,C;MAAzB,OAAa,CApEF,iBAAK,GAAL,MA
AJ,GAoEM,CApEN,GAAmB,G;K;mFAuE9B,yB;MAAA,iB;MAAA,0B;QAQI,OAAO,MAAO,KAAI,CAAJ,EAA
O,CAAP,EAAU,CAAV,C;O;KARlB,C;mFAWA,yB;MAAA,iB;MAAA,0B;QAQI,OAAO,MAAO,KAAI,CAAJ,E
AAO,CAAP,EAAU,CAAV,C;O;KARlB,C;IAWA,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QA
AU,QAAA,KAAV,M;QAAiB,MAAM,SAAM,GAAN,EAAW,CAAX,C;;MACvB,OAAO,G;K;IAGX,4B;MAMc,Q
;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAxHV,MAAO,KAwHe,GAxH
f,EAwHoB,CAxHpB,C;;MAyHd,OAAO,G;K;IAGX,4B;MAMc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;

QAAU,QAAA,KAAV,M;QAAiB,MAlIV,MAAO,KAkIe,GAlIf,EAkIoB,CAlIpB,C;;MAmId,OAAO,G;K;IAGX,4B;MAMc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA5IV,MAAO,KA4Ie,GA5If,EA4IoB,CA5IpB,C;;MA6Id,OAAO,G;K;IAGX,4B;MAMc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAuB,UAAM,G;QAAZ,MA7IN,oBA6IuB,CA7IvB,MAAJ,GAAY,GAAZ,GA6I2B,GA7I3B,C;;MAClC,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA9IV,MAAO,KA8Ie,GA9If,EA8IoB,CA9IpB,C;;MA+Id,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA/IV,MAAO,KA+Ie,GA/If,EA+IoB,CA/IpB,C;;MAgJd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAhJV,MAAO,KAgJe,GAhJf,EAgJoB,CAhJpB,C;;MAiJd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAjJV,MAAO,KAiJe,GAjJf,EAiJoB,CAjJpB,C;;MAkJd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAlJV,MAAO,KAkJe,GAlJf,EAkJoB,CAlJpB,C;;MAmJd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAnJV,MAAO,KAmJe,GAnJf,EAmJoB,CAnJpB,C;;MAoJd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MApJV,MAAO,KAoJe,GApJf,EAoJoB,CApJpB,C;;MAqJd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MArJV,MAAO,KAqJe,GArJf,EAqJoB,CArJpB,C;;MAsJd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAtJV,MAAO,KAsJe,GAtJf,EAsJoB,CAtJpB,C;;MAuJd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAvJV,MAAO,KAuJe,GAvJf,EAuJoB,CAvJpB,C;;MAwJd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAxJV,MAAO,KAwJe,GAxJf,EAwJoB,CAxJpB,C;;MAyJd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAzJV,MAAO,KAyJe,GAzJf,EAyJoB,CAzJpB,C;;MA0Jd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA1JV,MAAO,KA0Je,GA1Jf,EA0JoB,CA1JpB,C;;MA2Jd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA3JV,MAAO,KA2Je,GA3Jf,EA2JoB,CA3JpB,C;;MA4Jd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA5JV,MAAO,KA4Je,GA5Jf,EA4JoB,CA5JpB,C;;MA6Jd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA7JV,MAAO,KA6Je,GA7Jf,EA6JoB,CA7JpB,C;;MA8Jd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA9JV,MAAO,KA8Je,GA9Jf,EA8JoB,CA9JpB,C;;MA+Jd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA/JV,MAAO,KA+Je,GA/Jf,EA+JoB,CA/JpB,C;;MAgKd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAhKV,MAAO,KAgKe,GAhKf,EAgKoB,CAhKpB,C;;MAiKd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAjKV,MAAO,KAiKe,GAjKf,EAiKoB,CAjKpB,C;;MAkKd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAlKV,MAAO,KAkKe,GAlKf,EAkKoB,CAlKpB,C;;MAmKd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAnKV,MAAO,KAmKe,GAnKf,EAmKoB,CAnKpB,C;;MAoKd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MApKV,MAAO,KAoKe,GApKf,EAoKoB,CApKpB,C;;MAqKd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MArKV,MAAO,KAqKe,GArKf,EAqKoB,CArKpB,C;;MAsKd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAtKV,MAAO,KAsKe,GAtKf,EAsKoB,CAtKpB,C;;MAuKd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAvKV,MAAO,KAuKe,GAvKf,EAuKoB,CAvKpB,C;;MAwKd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAxKV,MAAO,KAwKe,GAxKf,EAwKoB,CAxKpB,C;;MAyKd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAzKV,MAAO,KAyKe,GAzKf,EAyKoB,CAzKpB,C;;MA0Kd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA1KV,MAAO,KA0Ke,GA1Kf,EA0KoB,CA1KpB,C;;MA2Kd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA3KV,MAAO,KA2Ke,GA3Kf,EA2KoB,CA3KpB,C;;MA4Kd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA5KV,MAAO,KA4Ke,GA5Kf,EA4KoB,CA5KpB,C;;MA6Kd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA7KV,MAAO,KA6Ke,GA7Kf,EA6KoB,CA7KpB,C;;MA8Kd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA9KV,MAAO,KA8Ke,GA9Kf,EA8KoB,CA9KpB,C;;MA+Kd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA/KV,MAAO,KA+Ke,GA/Kf,EA+KoB,CA/KpB,C;;MAgLd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAhLV,MAAO,KAgLe,GAhLf,EAgLoB,CAhLpB,C;;MAiLd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAjLV,MAAO,KAiLe,GAjLf,EAiLoB,CAjLpB,C;;MAkLd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAlLV,MAAO,KAkLe,GAlLf,EAkLoB,CAlLpB,C;;MAmLd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAnLV,MAAO,KAmLe,GAnLf,EAmLoB,CAnLpB,C;;MAoLd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MApLV,MAAO,KAoLe,GApLf,EAoLoB,CApLpB,C;;MAqLd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MArLV,MAAO,KAqLe,GArLf,EAqLoB,CArLpB,C;;MAsLd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAtLV,MAAO,KAsLe,GAtLf,EAsLoB,CAtLpB,C;;MAuLd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAvLV,MAAO,KAuLe,GAvLf,EAuLoB,CAvLpB,C;;MAwLd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAxLV,MAAO,KAwLe,GAxLf,EAwLoB,CAxLpB,C;;MAyLd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAzLV,MAAO,KAyLe,GAzLf,EAyLoB,CAzLpB,C;;MA0Ld,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA1LV,MAAO,KA0Le,GA1Lf,EA0LoB,CA1LpB,C;;MA2Ld,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA3LV,MAAO,KA2Le,GA3Lf,EA2LoB,CA3LpB,C;;MA4Ld,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA5LV,MAAO,KA4Le,GA5Lf,EA4LoB,CA5LpB,C;;MA6Ld,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA7LV,MAAO,KA6Le,GA7Lf,EA6LoB,CA7LpB,C;;MA8Ld,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA9LV,MAAO,KA8Le,GA9Lf,EA8LoB,CA9LpB,C;;MA+Ld,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA/LV,MAAO,KA+Le,GA/Lf,EA+LoB,CA/LpB,C;;MAgMd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAhMV,MAAO,KAgMe,GAhMf,EAgMoB,CAhMpB,C;;MAiMd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAjMV,MAAO,KAiMe,GAjMf,EAiMoB,CAjMpB,C;;MAkMd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAlMV,MAAO,KAkMe,GAlMf,EAkMoB,CAlMpB,C;;MAmMd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAnMV,MAAO,KAmMe,GAnMf,EAmMoB,CAnMpB,C;;MAoMd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MApMV,MAAO,KAoMe,GApMf,EAoMoB,CApMpB,C;;MAqMd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MArMV,MAAO,KAqMe,GArMf,EAqMoB,CArMpB,C;;MAsMd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAtMV,MAAO,KAsMe,GAtMf,EAsMoB,CAtMpB,C;;MAuMd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAvMV,MAAO,KAuMe,GAvMf,EAuMoB,CAvMpB,C;;MAwMd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAxMV,MAAO,KAwMe,GAxMf,EAwMoB,CAxMpB,C;;MAyMd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAzMV,MAAO,KAyMe,GAzMf,EAyMoB,CAzMpB,C;;MA0Md,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA1MV,MAAO,KA0Me,GA1Mf,EA0MoB,CA1MpB,C;;MA2Md,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA3MV,MAAO,KA2Me,GA3Mf,EA2MoB,CA3MpB,C;;MA4Md,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA5MV,MAAO,KA4Me,GA5Mf,EA4MoB,CA5MpB,C;;MA6Md,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA7MV,MAAO,KA6Me,GA7Mf,EA6MoB,CA7MpB,C;;MA8Md,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA9MV,MAAO,KA8Me,GA9Mf,EA8MoB,CA9MpB,C;;MA+Md,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA/MV,MAAO,KA+Me,GA/Mf,EA+MoB,CA/MpB,C;;MAgNd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAhNV,MAAO,KAgNe,GAhNf,EAgNoB,CAhNpB,C;;MAiNd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAjNV,MAAO,KAiNe,GAjNf,EAiNoB,CAjNpB,C;;MAkNd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAlNV,MAAO,KAkNe,GAlNf,EAkNoB,CAlNpB,C;;MAmNd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAnNV,MAAO,KAmNe,GAnNf,EAmNoB,CAnNpB,C;;MAoNd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MApNV,MAAO,KAoNe,GApNf,EAoNoB,CApNpB,C;;MAqNd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MArNV,MAAO,KAqNe,GArNf,EAqNoB,CArNpB,C;;MAsNd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAtNV,MAAO,KAsNe,GAtNf,EAsNoB,CAtNpB,C;;MAuNd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAvNV,MAAO,KAuNe,GAvNf,EAuNoB,CAvNpB,C;;MAwNd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAxNV,MAAO,KAwNe,GAxNf,EAwNoB,CAxNpB,C;;MAyNd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAzNV,MAAO,KAyNe,GAzNf,EAyNoB,CAzNpB,C;;MA0Nd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA1NV,MAAO,KA0Ne,GA1Nf,EA0NoB,CA1NpB,C;;MA2Nd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA3NV,MAAO,KA2Ne,GA3Nf,EA2NoB,CA3NpB,C;;MA4Nd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA5NV,MAAO,KA4Ne,GA5Nf,EA4NoB,CA5NpB,C;;MA6Nd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA7NV,MAAO,KA6Ne,GA7Nf,EA6NoB,CA7NpB,C;;MA8Nd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA9NV,MAAO,KA8Ne,GA9Nf,EA8NoB,CA9NpB,C;;MA+Nd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA/NV,MAAO,KA+Ne,GA/Nf,EA+NoB,CA/NpB,C;;MAgOd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAhOV,MAAO,KAgOe,GAhOf,EAgOoB,CAhOpB,C;;MAiOd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAjOV,MAAO,KAiOe,GAjOf,EAiOoB,CAjOpB,C;;MAkOd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAlOV,MAAO,KAkOe,GAlOf,EAkOoB,CAlOpB,C;;MAmOd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAnOV,MAAO,KAmOe,GAnOf,EAmOoB,CAnOpB,C;;MAoOd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MApOV,MAAO,KAoOe,GApOf,EAoOoB,CApOpB,C;;MAqOd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MArOV,MAAO,KAqOe,GArOf,EAqOoB,CArOpB,C;;MAsOd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAtOV,MAAO,KAsOe,GAtOf,EAsOoB,CAtOpB,C;;MAuOd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAvOV,MAAO,KAuOe,GAvOf,EAuOoB,CAvOpB,C;;MAwOd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAxOV,MAAO,KAwOe,GAxOf,EAwOoB,CAxOpB,C;;MAyOd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAzOV,MAAO,KAyOe,GAzOf,EAyOoB,CAzOpB,C;;MA0Od,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA1OV,MAAO,KA0Oe,GA1Of,EA0OoB,CA1OpB,C;;MA2Od,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA3OV,MAAO,KA2Oe,GA3Of,EA2OoB,CA3OpB,C;;MA4Od,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA5OV,MAAO,KA4Oe,GA5Of,EA4OoB,CA5OpB,C;;MA6Od,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA7OV,MAAO,KA6Oe,GA7Of,EA6OoB,CA7OpB,C;;MA8Od,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA9OV,MAAO,KA8Oe,GA9Of,EA8OoB,CA9OpB,C;;MA+Od,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA/OV,MAAO,KA+Oe,GA/Of,EA+OoB,CA/OpB,C;;MAgPd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAhPV,MAAO,KAgPe,GAhPf,EAgPoB,CAhPpB,C;;MAiPd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAjPV,MAAO,KAiPe,GAjPf,EAiPoB,CAjPpB,C;;MAkPd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAlPV,MAAO,KAkPe,GAlPf,EAkPoB,CAlPpB,C;;MAmPd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAnPV,MAAO,KAmPe,GAnPf,EAmPoB,CAnPpB,C;;MAoPd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MApPV,MAAO,KAoPe,GApPf,EAoPoB,CApPpB,C;;MAqPd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MArPV,MAAO,KAqPe,GArPf,EAqPoB,CArPpB,C;;MAsPd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAtPV,MAAO,KAsPe,GAtPf,EAsPoB,CAtPpB,C;;MAuPd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAvPV,MAAO,KAuPe,GAvPf,EAuPoB,CAvPpB,C;;MAwPd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAxPV,MAAO,KAwPe,GAxPf,EAwPoB,CAxPpB,C;;MAyPd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAzPV,MAAO,KAyPe,GAzPf,EAyPoB,CAzPpB,C;;MA0Pd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA1PV,MAAO,KA0Pe,GA1Pf,EA0PoB,CA1PpB,C;;MA2Pd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA3PV,MAAO,KA2Pe,GA3Pf,EA2PoB,CA3PpB,C;;MA4Pd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA5PV,MAAO,KA4Pe,GA5Pf,EA4PoB,CA5PpB,C;;MA6Pd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA7PV,MAAO,KA6Pe,GA7Pf,EA6PoB,CA7PpB,C;;MA8Pd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA9PV,MAAO,KA8Pe,GA9Pf,EA8PoB,CA9PpB,C;;MA+Pd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA/PV,MAAO,KA+Pe,GA/Pf,EA+PoB,CA/PpB,C;;MAgQd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAhQV,MAAO,KAgQe,GAhQf,EAgQoB,CAhQpB,C;;MAiQd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAjQV,MAAO,KAiQe,GAjQf,EAiQoB,CAjQpB,C;;MAkQd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAlQV,MAAO,KAkQe,GAlQf,EAkQoB,CAlQpB,C;;MAmQd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAnQV,MAAO,KAmQe,GAnQf,EAmQoB,CAnQpB,C;;MAoQd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MApQV,MAAO,KAoQe,GApQf,EAoQoB,CApQpB,C;;MAqQd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MArQV,MAAO,KAqQe,GArQf,EAqQoB,CArQpB,C;;MAsQd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAtQV,MAAO,KAsQe,GAtQf,EAsQoB,CAtQpB,C;;MAuQd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAvQV,MAAO,KAuQe,GAvQf,EAuQoB,CAvQpB,C;;MAwQd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAxQV,MAAO,KAwQe,GAxQf,EAwQoB,CAxQpB,C;;MAyQd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAzQV,MAAO,KAyQe,GAzQf,EAyQoB,CAzQpB,C;;MA0Qd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA1QV,MAAO,KA0Qe,GA1Qf,EA0QoB,CA1QpB,C;;MA2Qd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA3QV,MAAO,KA2Qe,GA3Qf,EA2QoB,CA3QpB,C;;MA4Qd,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA5QV,MAAO,KA4Qe,GA5Q

mCAAyB,gBAAzB,MAA1B,C;;MAAtC,W;K;ICRJ,sC;MAEI,WAAW,ShDkC+B,I;MgDhC1C,IAAY,GAAR,oBA
AgB,GAAhB,KAAkC,GAAR,oBAAgB,GAA1C,CAAJ,C;QACI,OAA8B,OAAtB,KAAK,CAAC,OAAO,CAAP,IA
AD,IAAa,CAAb,IAAL,KAAsB,C;OAGlC,IAAY,IAAR,oBAAgB,IAAhB,KAAkC,IAAR,oBAAgB,IAA1C,CAAJ,
C;QACI,OAAO,S;OAEX,OAAO,wB;K;ICPX,wC;MxCqTe,WwC7SY,KxC6SZ,IAAS,C;MAAT,S;QAAc,OwC7S
F,KxC6SE,IAqgHT,gBAAR,iBAAQ,C;OArgHT,U;MAAA,S;QAAA,SAAsC,sBwC7StB,KxC6SsB,C;;QwC7Sb,M
AAM,8BAA0B,iCAAuB,cAAvB,MAA1B,C;;MAAtC,a;K;IAGJ,wC;MxCsTe,WwC9SY,KxC8SZ,IAAS,C;MAAT,
S;QAAc,OwC9SF,KxC8SE,IAigHT,gBAAR,iBAAQ,C;OAjgHT,U;MAAA,S;QAAA,SAAsC,sBwC9StB,KxC8Ss
B,C;;QwC9Sb,MAAM,8BAA0B,iCAAuB,cAAvB,MA1B,C;;MAAtC,a;K;IAGJ,wC;MxCuTe,WwC/SY,KxC+SZ+SZ
,IAAS,C;MAAT,S;QAAc,OwC/SF,KxC+SE,IA6/GT,gBAAR,iBAAQ,C;OA7/GT,U;MAAA,S;QAAA,SAAsC,sBwC
C/StB,KxC+SsB,C;;QwC/Sb,MAAM,8BAA0B,iCAAuB,cAAvB,MA1B,C;;MAAtC,a;K;IAGJ,wC;MxCwTe,WwCh
ChTY,KxCgTZ,IAAS,C;MAAT,S;QAAc,OwChTF,KxCgTE,IAy/GT,gBAAR,iBAAQ,C;OAz/GT,U;MAAA,S;QA
AA,SAAsC,sBwChTtB,KxCgTsB,C;;QwChTb,MAAM,8BAA0B,iCAAuB,cAAvB,MA1B,C;;MAAtC,a;K;IASO,
6C;MAAA,8B;MAAS,uB;K;8FACW,Y;MAAQ,OAAA,gBAAY,K;K;+CAC3C,Y;MAAkC,OAAA,gBAAY,U;K;s
DAC9C,mB;MAAgD,OAAA,gBAAY,gBAAS,OAAT,C;K;mDAC5D,iB;MACI,oCAAa,2BAAkB,KAAlB,EAAyB,
SAAzB,C;MACb,OAAO,6BAAY,KAAZ,C;K;qDAEX,mB;MAES,Q;MAAL,IAAI,eAAC,0EAAD,OAAJ,C;QAAgC
,OAAO,E;MACvC,OxCsrBO,UwCtrBA,gBxCsrBR,QAAQ,EwCtrBoB,O3EgOF,KmCsdlB,C;K;yDwCprBX,mB;
MAES,Q;MAAL,IAAI,eAAC,0EAAD,OAAJ,C;QAAgC,OAAO,E;MACvC,OxCy6BO,cwCz6BA,gBxCy6BR,QA
AQ,EwCz6BwB,O3E2NN,KmC8sBlB,C;K;;IwC/7BnB,6B;MAMI,4C;K;IA2BO,6C;MAAA,8B;MAAS,uB;K;8FA
CW,Y;MAAQ,OAAA,gBAAY,K;K;+CAC3C,Y;MAAkC,OAAA,gBAAY,U;K;sDAC9C,mB;MAAiD,OAAA,gBA
AY,gBAAS,OAAT,C;K;mDAC7D,iB;MACI,oCAAa,2BAAkB,KAAlB,EAAyB,SAAzB,C;MACb,OAAO,6BAAY,
KAAZ,C;K;qDAEX,mB;MAES,Q;MAAL,IAAI,eAAC,0EAAD,QAAJ,C;QAAiC,OAAO,E;MACxC,OxCw5BO,cwCx5BA
,0EAAD,QAAJ,C;QAAiC,OAAO,E;MACxC,OxCw5BO,cwCx5BA,gBxCw5BR,QAAQ,EwCx5BwB,O3D2MJ,K
mB6sBpB,C;K;;IwC96BnB,6B;MAMI,4C;K;IA2BO,6C;MAAA,8B;MAAS,uB;K;8FACW,Y;MAAQ,OAAA,gBAAY,
K;K;+CAC3C,Y;MAAkC,OAAA,gBAAY,U;K;sDAC9C,mB;MAAiD,OAAA,gBAAY,gBAAS,OAAT,C;K;m
DAC7D,iB;MACI,oCAAa,2BAAkB,KAAlB,EAAyB,SAAzB,C;MACb,OAAO,6BAAY,KAAZ,C;K;qDAEX,mB;
MAES,Q;MAAL,IAAI,eAAC,0EAAD,QAAJ,C;QAAiC,OAAO,E;MACxC,OxCy+BO,cwCz+BA,gBxCy+BR,QA
AQ,EwCz+BwB,O5EkOA,KoCkhBpB,C;K;yDwCh+BX,mB;MAES,Q;MAAL,IAAI,eAAC,0EAAD,QAAJ,C;QAAiC
C,OAAO,E;MACxC,OxCu4BO,cwCv4BA,gBxCu4BR,QAAQ,EwCv4BwB,O5E6EHJ,KoC0wBpB,C;K;;IwC75BnB
,8B;MAMI,4C;K;IA2BO,6C;MAAA,8B;MAAS,uB;K;8FACW,Y;MAAQ,OAAA,gBAAY,K;K;+CAC3C,Y;MAAk
C,OAAA,gBAAY,U;K;sDAC9C,mB;MAAkD,OAAA,gBAAY,gBAAS,OAAT,C;K;mDAC9D,iB;MACI,oCAAa,2
BAAkB,KAAlB,EAAyB,SAAzB,C;MACb,OAAO,6BAAY,KAAZ,C;K;qDAEX,mB;MAES,Q;MAAL,IAAI,eAAC
,0EAAD,SAAJ,C;QAAkC,OAAO,E;MACzC,OxCmCO,cwCnCA,gBxCmCR,QAAQ,EwCnCwB,O1EkHE,Kk
CihBtB,C;K;yDwCjCX,mB;MAES,Q;MAAL,IAAI,eAAC,0EAAD,SAAJ,C;QAAkC,OAAO,E;MACzC,OxCs3B
O,cwCt3BA,gBxCs3BR,QAAQ,EwCt3BwB,O1E6GF,KkCywBtB,C;K;;IwC54BnB,8B;MAMI,4C;K;ICtIJ,qC;MAI
I,SAAS,SlD+BiC,I;MkD9B1C,OAAa,CAAN,gBAAc,EAAd,KACU,EAAN,gBAAc,EADlB,KAEI,OAAM,GAFV,
KAGI,KAAK,IAAL,KACC,OAAM,IAAN,KACS,IAAN,gBAAc,IADjB,KAEG,OAAM,IAFT,KAGG,OAAM,IAHT
,IAIG,OAAM,IAJT,KAKG,OAAM,IALT,KAMG,OAAM,KAPV,CAHJ,C;K;;;mCCTP,gB;;K;;ICAJ,wB;K;;IAIA,w
B;K;;IAIA,wB;K;;IAKiC,uB;MAAC,oB;QAAA,OAA0B,E;MAA1B,E;MAA1B,gB;K;;IAElC,kB;K;;IAqqCqC,sB
;MAAC,gB;K;;IAAsC,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAvE,gB;K;;IAAgH,4B;MAAC,oB;QAAA,
OAAgC,E;MAAhC,E;MAAjH,gB;K;;IAAwK,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAzK,gB;K;;IAAkO,
4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAnO,gB;K;;IAA4R,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MA
AvR,gB;K;;IAAgV,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAjV,gB;K;;IAAwY,4B;MAAC,oB;QAAA,OA
AgC,E;MAAhC,E;MAAzY,gB;K;;IAAkc,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAnc,gB;K;;IAA4f,4
B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAvf,gB;K;;IAAgjB,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MA
AjjB,gB;K;;IAAwmB,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAzmB,gB;K;;IAAkqB,4B;MAAC,oB;QAAA,
OAAgC,E;MAAhC,E;MAAnqB,gB;K;;IAA4tB,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAvtB,gB;K;;IAAgx
B,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAjxB,gB;K;;IAAw0B,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;
MAAz0B,gB;K;;IAAk4B,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAn4B,gB;K;;IAA47B,4B;MAAC,oB;QAA
A,OAAgC,E;MAAhC,E;MAAv7B,gB;K;;IAAgF,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAjF,gB;K;;IAAwI
,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAzI,gB;K;;IAAkM,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MA
AnM,gB;K;;IAA4P,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAvP,gB;K;;IAAgT,4B;MAAC,oB;QAAA,OAA
gC,E;MAAhC,E;MAAjT,gB;K;;IAAwW,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAzW,gB;K;;IAAkZ,4B;M
AAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAnZ,gB;K;;IAA4c,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAvc,g
B;K;;IAAgg,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAjg,gB;K;;IAAwj,4B;MAAC,oB;QAAA,OAAgC,E;
MAAhC,E;MAAzj,gB;K;;IAAkn,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAnn,gB;K;;IAA4q,4B;MAAC,
oB;QAAA,OAAgC,E;MAAhC,E;MAAvq,gB;K;;IAAgu,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAju,gB;K;
;IAAwx,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAzx,gB;K;;IAAk1,4B;MAAC,oB;QAAA,OAAgC,E;MAAh
C,E;MAAn1,gB;K;;IAA44,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAv4,gB;K;;IAAg8,4B;MAAC,oB;QAA
A,OAAgC,E;MAAhC,E;MAAj8,gB;K;;IAAwF,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAzF,gB;K;;IAAkJ
,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAnJ,gB;K;;IAA4M,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MA
AvM,gB;K;;IAAgQ,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAjQ,gB;K;;IAAwT,4B;MAAC,oB;QAAA,OAA
gC,E;MAAhC,E;MAAzT,gB;K;;IAAkX,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAnX,gB;K;;IAA4a,4B;M
AAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAva,gB;K;;IAAgf,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAjf,g
B;K;;IAAwi,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAzi,gB;K;;IAAkm,4B;MAAC,oB;QAAA,OAAgC,E;
MAAhC,E;MAAnm,gB;K;;IAA4p,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAvp,gB;K;;IAAgt,4B;MAAC,
oB;QAAA,OAAgC,E;MAAhC,E;MAAjt,gB;K;;IAAww,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAzw,gB;K;
;IAAk0,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAn0,gB;K;;IAA43,4B;MAAC,oB;QAAA,OAAgC,E;MAAh
C,E;MAAv3,gB;K;;IAAg7,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAj7,gB;K;;IAAwE,4B;MAAC,oB;QAA
A,OAAgC,E;MAAhC,E;MAAzE,gB;K;;IAAkI,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAnI,gB;K;;IAA4L
,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAvL,gB;K;;IAAgP,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MA
AjP,gB;K;;IAAwS,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAzS,gB;K;;IAAkW,4B;MAAC,oB;QAAA,OAA
gC,E;MAAhC,E;MAAnW,gB;K;;IAA4Z,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAvZ,gB;K;;IAAgd,4B;M
AAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAjd,gB;K;;IAAwh,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAzh,g
B;K;;IAAkl,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAnl,gB;K;;IAA4o,4B;MAAC,oB;QAAA,OAAgC,E;
MAAhC,E;MAAvo,gB;K;;IAAgs,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAjs,gB;K;;IAAgvB,4B;MAAC,
oB;QAAA,OAAgC,E;MAAhC,E;MAAzvB,gB;K;;IAAkz,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAnz,gB;K;
;IAA42,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAv2,gB;K;;IAAg6,4B;MAAC,oB;QAAA,OAAgC,E;MAAh
C,E;MAAj6,gB;K;;IAAwD,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAzD,gB;K;;IAAkH,4B;MAAC,oB;QA
AA,OAAgC,E;MAAhC,E;MAAnH,gB;K;;IAA4K,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAvK,gB;K;;IAAgO
,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAjO,gB;K;;IAAwR,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MA
AzR,gB;K;;IAAkV,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAnV,gB;K;;IAA4Y,4B;MAAC,oB;QAAA,OAA
gC,E;MAAhC,E;MAAvY,gB;K;;IAAgc,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAjc,gB;K;;IAAwf,4B;M
AAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAzf,gB;K;;IAAkj,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAnj,g
B;K;;IAA4m,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAvm,gB;K;;IAAgq,4B;MAAC,oB;QAAA,OAAgC,E;
MAAhC,E;MAAjq,gB;K;;IAAgtB,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAztB,gB;K;;IAAkx,4B;MAAC,
oB;QAAA,OAAgC,E;MAAhC,E;MAAnx,gB;K;;IAA40,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAv0,gB;K;
;IAAg4,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAj4,gB;K;;IAAwC,4B;MAAC,oB;QAAA,OAAgC,E;MAAh
C,E;MAAzC,gB;K;;IAAkG,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAnG,gB;K;;IAA4J,4B;MAAC,oB;QA
AA,OAAgC,E;MAAhC,E;MAAvJ,gB;K;;IAAgN,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAjN,gB;K;;IAAwQ
,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAzQ,gB;K;;IAAkU,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MA
AnU,gB;K;;IAA4X,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAvX,gB;K;;IAAgb,4B;MAAC,oB;QAAA,OAA
gC,E;MAAhC,E;MAAjb,gB;K;;IAAwe,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAze,gB;K;;IAAki,4B;M
AAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAni,gB;K;;IAA4l,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAvl,g
B;K;;IAAgp,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAjp,gB;K;;IAAgsB,4B;MAAC,oB;QAAA,OAAgC,E;
MAAhC,E;MAAzsB,gB;K;;IAAkw,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAnw,gB;K;;IAA4z,4B;MAAC,
oB;QAAA,OAAgC,E;MAAhC,E;MAAvz,gB;K;;IAAg3,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAj3,gB;K;
;IAAwB,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAzB,gB;K;;IAAkF,4B;MAAC,oB;QAAA,OAAgC,E;MAAh
C,E;MAAnF,gB;K;;IAA4I,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAvI,gB;K;;IAAgM,4B;MAAC,oB;QA
AA,OAAgC,E;MAAhC,E;MAAjM,gB;K;;IAAwP,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAzP,gB;K;;IAAkT
,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAnT,gB;K;;IAA4W,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MA
AvW,gB;K;;IAAgb,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAjb,gB;K;;IAAwe,4B;MAAC,oB;QAAA,OAA
gC,E;MAAhC,E;MAAze,gB;K;;IAAki,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAni,gB;K;;IAA4l,4B;M
AAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAvl,gB;K;;IAAgp,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAjp,g
B;K;;IAAgsB,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAzsB,gB;K;;IAAkw,4B;MAAC,oB;QAAA,OAAgC,E;
MAAhC,E;MAAnw,gB;K;;IAA4z,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAvz,gB;K;;IAAg3,4B;MAAC,
oB;QAAA,OAAgC,E;MAAhC,E;MAAj3,gB;K;;IAAwB,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAzB,gB;K;
;IAAkF,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAnF,gB;K;;IAA4I,4B;MAAC,oB;QAAA,OAAgC,E;MAAh
C,E;MAAvI,gB;K;;IAAgM,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAjM,gB;K;;IAAwP,4B;MAAC,oB;QA
AA,OAAgC,E;MAAhC,E;MAAzP,gB;K;;IAAkT,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAnT,gB;K;;IAA4W
,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAvW,gB;K;;IAAgb,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MA
AjB,gB;K;;IAAwe,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAze,gB;K;;IAAki,4B;MAAC,oB;QAAA,OAA
gC,E;MAAhC,E;MAAni,gB;K;;IAA4l,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAvl,gB;K;;IAAgp,4B;M
AAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAjp,gB;K;;IAAgsB,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAzsB,g
B;K;;IAAkw,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAnw,gB;K;;IAA4z,4B;MAAC,oB;QAAA,OAAgC,E;
MAAhC,E;MAAvz,gB;K;;IAAg3,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAj3,gB;K;;IAAwB,4B;MAAC,
oB;QAAA,OAAgC,E;MAAhC,E;MAAzB,gB;K;;IAAkF,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAnF,gB;K;
;IAA4I,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAvI,gB;K;;IAAgM,4B;MAAC,oB;QAAA,OAAgC,E;MAAh
C,E;MAAjM,gB;K;;IAAwP,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAzP,gB;K;;IAAkT,4B;MAAC,oB;QA
AA,OAAgC,E;MAAhC,E;MAAnT,gB;K;;IAA4W,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAvW,gB;K;;IAAgb
,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAjb,gB;K;;IAAwe,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MA
AzE,gB;K;;IAAki,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAni,gB;K;;IAA4l,4B;MAAC,oB;QAAA,OAA
gC,E;MAAhC,E;MAAvl,gB;K;;IAAgp,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAjp,gB;K;;IAAgsB,4B;M
AAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAzsB,gB;K;;IAAkw,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAnw,g
B;K;;IAA4z,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAvz,gB;K;;IAAg3,4B;MAAC,oB;QAAA,OAAgC,E;
MAAhC,E;MAAj3,gB;K;;IAAwB,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAzB,gB;K;;IAAkF,4B;MAAC,
oB;QAAA,OAAgC,E;MAAhC,E;MAAnF,gB;K;;IAA4I,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAvI,gB;K;
;IAAgM,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAjM,gB;K;;IAAwP,4B;MAAC,oB;QAAA,OAAgC,E;MAAh
C,E;MAAzP,gB;K;;IAAkT,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAnT,gB;K;;IAA4W,4B;MAAC,oB;QA
AA,OAAgC,E;MAAhC,E;MAAvW,gB;K;;IAAgb,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAjb,gB;K;;IAAwe
,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAzE,gB;K;;IAAki,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MA
AnE,gB;K;;IAA4l,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAvl,gB;K;;IAAgp,4B;MAAC,oB;QAAA,OAA
gC,E;MAAhC,E;MAAjp,gB;K;;IAAgsB,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAzsB,gB;K;;IAAkw,4B;M
AAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAnw,gB;K;;IAA4z,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAvz,g
B;K;;IAAg3,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAj3,gB;K;;IAAwB,4B;MAAC,oB;QAAA,OAAgC,E;
MAAhC,E;MAAzB,gB;K;;IAAkF,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAnF,gB;K;;IAA4I,4B;MAAC,
oB;QAAA,OAAgC,E;MAAhC,E;MAAvI,gB;K;;IAAgM,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAjM,gB;K;
;IAAwP,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAzP,gB;K;;IAAkT,4B;MAAC,oB;QAAA,OAAgC,E;MAAh
C,E;MAAnT,gB;K;;IAA4W,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAvW,gB;K;;IAAgb,4B;MAAC,oB;QA
AA,OAAgC,E;MAAhC,E;MAAjb,gB;K;;IAAwe,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAzE,gB;K;;IAAki
,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAnE,gB;K;;IAA4l,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MA
AvE,gB;K;;IAAgp,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAjp,gB;K;;IAAgsB,4B;MAAC,oB;QAAA,OAA
gC,E;MAAhC,E;MAAzsB,gB;K;;IAAkw,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAnw,gB;K;;IAA4z,4B;M
AAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAvz,gB;K;;IAAg3,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAj3,g
B;K;;IAAwB,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAzB,gB;K;;IAAkF,4B;MAAC,oB;QAAA,OAAgC,E;
MAAhC,E;MAAnF,gB;K;;IAA4I,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAvI,gB;K;;IAAgM,4B;MAAC,
oB;QAAA,OAAgC,E;MAAhC,E;MAAjM,gB;K;;IAAwP,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAzP,gB;K;
;IAAkT,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAnT,gB;K;;IAA4W,4B;MAAC,oB;QAAA,OAAgC,E;MAAh
C,E;MAAvW,gB;K;;IAAgb,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAjb,gB;K;;IAAwe,4B;MAAC,oB;QA
AA,OAAgC,E;MAAhC,E;MAAzE,gB;K;;IAAki,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAnE,gB;K;;IAA4l
,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAvE,gB;K;;IAAgp,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MA
AjE,gB;K;;IAAgsB,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAzsB,gB;K;;IAAkw,4B;MAAC,oB;QAAA,OA
gC,E;MAAhC,E;MAAnw,gB;K;;IAA4z,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAvz,gB;K;;IAAg3,4B;M
AAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAj3,gB;K;;IAAwB,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAzB,g
B;K;;IAAkF,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAnF,gB;K;;IAA4I,4B;MAAC,oB;QAAA,OAAgC,E;
MAAhC,E;MAAvI,gB;K;;IAAgM,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAjM,gB;K;;IAAwP,4B;MAAC,
oB;QAAA,OAAgC,E;MAAhC,E;MAAzP,gB;K;;IAAkT,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAnT,gB;K;
;IAA4W,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAvW,gB;K;;IAAgb,4B;MAAC,oB;QAAA,OAAgC,E;MAAh
C,E;MAAjb,gB;K;;IAAwe,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAzE,gB;K;;IAAki,4B;MAAC,oB;QA
AA,OAAgC,E;MAAhC,E;MAAnE,gB;K;;IAA4l,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAvE,gB;K;;IAAgp
,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAjE,gB;K;;IAAgsB,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MA
AzsB,gB;K;;IAAkw,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAnw,gB;K;;IAA4z,4B;MAAC,oB;QAAA,OAA
gC,E;MAAhC,E;MAAvz,gB;K;;IAAg3,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAj3,gB;K;;IAAwB,4B;M
AAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAzB,gB;K;;IAAkF,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAnF,g
B;K;;IAA4I,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAvI,gB;K;;IAAgM,4B;MAAC,oB;QAAA,OAAgC,E;
MAAhC,E;MAAjM,gB;K;;IAAwP,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAzP,gB;K;;IAAkT,4B;MAAC,
oB;QAAA,OAAgC,E;MAAhC,E;MAAnT,gB;K;;IAA4W,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAvW,gB;K;
;IAAgb,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAjb,gB;K;;IAAwe,4B;MAAC,oB;QAAA,OAAgC,E;MAAh
C,E;MAAzE,gB;K;;IAAki,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAnE,gB;K;;IAA4l,4B;MAAC,oB;QA
AA,OAAgC,E;MAAhC,E;MAAvE,gB;K;;IAAgp,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAjE,gB;K;;IAAgs
B,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAzsB,gB;K;;IAAkw,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MA
AnE,gB;K;;IAA4z,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAvz,gB;K;;IAAg3,4B;MAAC,oB;QAAA,OAA
gC,E;MAAhC,E;MAAj3,gB;K;;IAAwB,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAzB,gB;K;;IAAkF,4B;M
AAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAnF,gB;K;;IAA4I,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAvI,g
B;K;;IAAgM,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAjM,gB;K;;IAAwP,4B;MAAC,oB;QAAA,OAAgC,E;
MAAhC,E;MAAzP,gB;K;;IAAkT,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAnT,gB;K;;IAA4W,4B;MAAC,
oB;QAAA,OAAgC,E;MAAhC,E;MAAvW,gB;K;;IAAgb,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAjb,gB;K;
;IAAwe,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAzE,gB;K;;IAAki,4B;MAAC,oB;QAAA,OAAgC,E;MAAh
C,E;MAAnE,gB;K;;IAA4l,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAvE,gB;K;;IAAgp,4B;MAAC,oB;QA
AA,OAAgC,E;MAAhC,E;MAAjE,gB;K;;IAAgs,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAzsB,gB;K;;IAAkw
,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAnE,gB;K;;IAA4z,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MA
AvE,gB;K;;IAAg3,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAjE,gB;K;;IAAwB,4B;MAAC,oB;QAAA,OAA
gC,E;MAAhC,E;MAAzB,gB;K;;IAAkF,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAnF,gB;K;;IAA4I,4B;M
AAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAvI,gB;K;;IAAgM,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAjM,g
B;K;;IAAwP,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAzP,gB;K;;IAAkT,4B;MAAC,oB;QAAA,OAAgC,E;
MAAhC,E;MAAnT,gB;K;;IAA4W,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAvW,gB;K;;IAAgb,4B;MAAC,
oB;QAAA,OAAgC,E;MAAhC,E;MAAjb,gB;K;;IAAwe,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAzE,gB;K;
;IAAki,4B;MAAC,oB;QAAA,OAAgC,E;MAAhC,E;MAAnE,gB;K;;I

A,0C;QAII,qBAAqB,QAArB,C;QAC8B,gBAAvB,eAAa,QAAb,C;QAA6B,aJGpC,W;QIHA,OJIO,SIJ4C,Q;O;KA
LvD,C;IASA,wB;MAG2C,oBAAU,OAAV,E;K;sGAE3C,yB;MAAA,uE;MAAA,gC;QAI8B,gBAAnB,oB;QAAyB,
aJVhC,W;QIUA,OJTO,SISwC,Q;O;KAJnD,C;wGAOA,yB;MAAA,wE;MAAA,0C;QAIsC,gBAA3B,mBAAiB,QA
AjB,C;QAAiC,aJjBxC,W;QIiBA,OJhBO,SIgBgD,Q;O;KAJ3D,C;IAQA,qB;MAIuD,oBAAU,IAAV,E;K;sGAEvD,
yB;MAAA,wE;MAAA,gC;QAIiC,gBAAtB,oB;QAA4B,aJ/BnC,W;QI+BA,OJ9BO,SI8B2C,Q;O;KAJtD,C;uGAOA
,yB;MAAA,uE;MAAA,0C;QAIyC,gBAA9B,mBAAoB,QAApB,C;QAAoC,aJtC3C,W;QIsCA,OJrCO,SIqCmD,Q;
O;KAJ9D,C;IAQA,mC;MAOqB,Q;MAAA,kC;MAAjB,iBAAc,CAAd,yB;QACI,sBAAK,KAAL,EAAc,KAAd,C;;
K;IAIR,+B;MAMuD,sBAAQ,4BAAR,C;K;IAEvD,6B;MAIwE,kBAAhB,0B;MAAwB,uB;MAAxB,OJjE7C,W;K;II
mEX,4B;MAQI,gBAAgB,SAAhB,EAAsB,cAAtB,C;K;IAGJ,2C;MAQI,gBAAgB,SAAhB,EAAsB,UAAtB,C;K;IA
GJ,2C;MACI,IAAI,IAAK,KAAL,IAAa,CAAjB,C;QAAoB,M;MAEpB,YAAY,YAAY,IAAZ,C;MACZ,gBAAc,KA
Ad,EAAqB,UAArB,C;MAEA,aAAU,CAAV,MAAkB,KAAM,OAAxB,M;QACI,iBAAK,CAAL,EAAU,MAAM,C
AAN,CAAV,C;;K;IAIR,uC;MACI,OAAO,gBAAkB,IAAlB,O;K;IAGX,iF;MAII,oCAAa,2BAAkB,UAAlB,EAA8B
,QAA9B,EAAwC,MAAO,OAA/C,C;MACb,gBAAgB,WAAW,UAAX,I;MAChB,oCAAa,2BAAkB,iBAAlB,EAAq
C,oBAAoB,SAApB,IAArC,EAAoE,WAAY,OAAhF,C;MAEb,IAAI,WAAkB,QAAO,WAAP,CAAlB,IAAyC,WA
AkB,QAAO,MAAP,CAA/D,C;QACI,eAAsB,MAAY,UAAS,UAAT,EAAqB,QAArB,C;QACtB,WAAY,KAAI,QA
AJ,EAAc,iBAAd,C;;QAExB,IAAI,WAAW,WAAX,IAA0B,qBAAqB,UAAnD,C;UACI,iBAAc,CAAd,UAAsB,SA
AtB,U;YACI,YAAY,oBAAoB,KAApB,IAAZ,IAAyC,OAAO,aAAa,KAAb,IAAP,C;;;UAG7C,mBAAc,YAAY,CA
AZ,IAAd,aAAmC,CAAnC,Y;YACI,YAAY,oBAAoB,OAApB,IAAZ,IAAyC,OAAO,aAAa,OAAb,IAAP,C;;;;K;8G
AMzD,qB;MAEgF,gB;K;kGAEhF,yB;MAAA,4D;MAAA,4B;QAC8E,OAAK,aAAL,SAAK,C;O;KADnF,C;sGAI
A,gC;MAEI,OAAI,SAAJ,GAEI,SAFJ,GAII,SN83BoB,Q;K;IM13B5B,mC;MAEI,IAAI,QAAQ,CAAZ,C;QACI,oB
;OAEJ,OAAO,K;K;IAGX,mC;MAEI,IAAI,QAAQ,CAAZ,C;QACI,oB;OAEJ,OAAO,K;K;IAIX,mC;MAIqD,mB;K
;IAErD,wC;MPzNI,IAAI,EOgOI,YAAY,CPhOhB,CAAJ,C;QACI,cO+NqB,gC;QP9NrB,MAAM,gCAAyB,OAAQ,
WAAjC,C;Q;IOiOd,8C;MAAoE,Y;K;I8D1PV,qC;MAAiC,6B;K;uDAIvF,mB;MACI,qB;MACA,eAAe,e;MACf,O
AAO,QAAS,UAAhB,C;QACI,IAAI,OAAA,QAAS,OAAT,EAAmB,OAAnB,CAAJ,C;UACI,QAAS,S;UACT,OAA
O,I;;MAGf,OAAO,K;K;yDAGX,oB;MAGoB,Q;MAFhB,qB;MACA,eAAe,K;MACC,0B;MAAhB,OAAgB,cAAhB
,C;QAAgB,yB;QACZ,IAAI,eAAI,OAAJ,CAAJ,C;UAAkB,WAAW,I;;MAEjC,OAAO,Q;K;IAKuC,sE;MAAA,qB;
QAAE,OAAM,gBAAN,mB;O;K;4DAFpD,oB;MAEY,Q;MADR,qB;MACA,OAAoC,YAA5B,iEAA4B,EAAU,oD
AAV,C;K;IAKU,sE;MAAA,qB;QAAE,QAAO,gBAAP,mB;O;K;4DAFpD,oB;MAEY,Q;MADR,qB;MACA,OAAo
C,YAA5B,iEAA4B,EAAU,oDAAV,C;K;gDAGxC,Y;MACI,qB;MACA,eAAe,IAAK,W;MACpB,OAAO,QAAS,U
AAhB,C;QACI,QAAS,O;QACT,QAAS,S;;K;iDAIjB,Y;MAE8B,OAAA,IAAK,U;K;yDAGnC,Y;K;;IC3CgD,+B;M
AAiC,oC;MACjF,gBAA8B,C;K;8CAM9B,mB;MAMI,qB;MACA,iBAAI,SAAJ,EAAU,OAAV,C;MACA,OAAO,I
;K;mDAGX,2B;MAMc,UACF,M;MANR,oCAAa,4BAAmB,KAAnB,EAA0B,SAA1B,C;MAEb,qB;MACA,aAAa,
K;MACb,cAAc,K;MACJ,0B;MAAV,OAAU,cAAV,C;QAAU,mB;QACN,kBAAI,eAAJ,EAAI,uBAAJ,WAAc,CA
Ad,C;QACA,UAAU,I;;MAEd,OAAO,O;K;0CAGX,Y;MACI,qB;MACA,yBAAY,CAAZ,EAAe,SAAf,C;K;IAKiB,
gE;MAAA,qB;QAAE,OAAM,gBAAN,mB;O;K;sDAFvB,oB;MACI,qB;MACA,OAAO,kBAAU,8CAAV,C;K;IAK
U,gE;MAAA,qB;QAAE,QAAO,gBAAP,mB;O;K;sDAFvB,oB;MACI,qB;MACA,OAAO,kBAAU,8CAAV,C;K;6C
AIX,Y;MAAqD,iD;K;mDAErD,mB;MAAoD,0BAAQ,OAAR,KAAoB,C;K;kDAExE,mB;MACqB,Q;MAAAA,6B;
MAAjB,iBAAc,CAAd,yB;QACI,IAAI,wBAAI,KAAJ,GAAc,OAAd,CAAJ,C;UACI,OAAO,K;;MAGf,OAAO,E;K;
sDAGX,mB;MACI,iBAAc,sBAAd,WAA+B,CAA/B,U;QACI,IAAI,wBAAI,KAAJ,GAAc,OAAd,CAAJ,C;UACI,O
AAO,K;;MAGf,OAAO,E;K;iDAGX,Y;MAA6D,iCAAa,CAAb,C;K;yDAC7D,iB;MAAuE,sDAAiB,KAAjB,C;K;o
DAGvE,8B;MAA4E,uCAAQ,IAAR,EAAc,SAAd,EAAyB,OAAzB,C;K;wDAE5E,8B;MAII,eAAe,0BAAa,SAAb,
C;MACf,YAAO,UAAU,SAAV,I;MnEuDX,iBAAc,CAAd,UAAsB,KAAtB,U;QmEtDiB,e;QACA,iB;;K;2CAIjB,iB
;MAMI,IAAI,UAAU,IAAd,C;QAAoB,OAAO,I;MAC3B,IAAI,2BAAJ,C;QAAuB,OAAO,K;MAE9B,OAAO,oCA
Aa,uBAAc,IAAd,EAAoB,KAApB,C;K;6CAGxB,Y;MAG+B,OAAA,oCAAa,yBAAgB,IAAhB,C;K;IAG5C,kD;M
AAA,oB;MACI,eACsB,C;MACtB,cAIqB,E;K;yDAErB,Y;MAAkC,sBAAQ,gB;K;sDAE1C,Y;MAEW,Q;MADP,I
AAI,CAAC,cAAL,C;QAAgB,MAAM,6B;MACtB,eAAO,mBAAP,EAAO,2BAAP,O;MACA,OAAO,wBAAI,WA
AJ,C;K;wDAGX,Y;MtE5CJ,IAAI,EsE6CU,gBAAQ,EtE7ClB,CAAJ,C;QACI,csE4CwB,sE;QtE3CxB,MAAM,6BA
AsB,OAAQ,WAA9B,C;OsE6CF,6BAAS,WAAT,C;MACA,eAAQ,W;MACR,cAAO,E;K;;IAOqB,6D;MAHpC,oB;

MAGmD,wD;MAG3C,oCAAa,4BAAmB,KAAnB,EAA0B,WAAyB,KAAnD,C;MACb,eAAa,K;K;iEAGjB,Y;MA
AsC,sBAAQ,C;K;+DAE9C,Y;MAAgC,mB;K;8DAEhC,Y;MACI,IAAI,CAAC,kBAAL,C;QAAoB,MAAM,6B;MA
E1B,eAAO,mCAAP,EAAO,YAAP,C;MACA,OAAO,wBAAI,WAAJ,C;K;mEAGX,Y;MAAoC,sBAAQ,CAAR,I;K
;+DAEpC,mB;MACI,wBAAI,YAAJ,EAAW,OAAX,C;MACA,mC;MACA,cAAO,E;K;+DAGX,mB;MtElFJ,IAAI,
EsEmFU,gBAAQ,EtEnFlB,CAAJ,C;QACI,csEkFwB,4E;QtEjFxB,MAAM,6BAAsB,OAAQ,WAA9B,C;OsEkFF,w
BAAI,WAAJ,EAAU,OAAV,C;K;;IAIgB,+D;MAAuF,8B;MAAtF,kB;MAA0C,4B;MAC/D,eAAyB,C;MAGrB,oC
AAa,2BAAkB,gBAAlB,EAA6B,OAA7B,EAAsC,WAAK,KAA3C,C;MACb,eAAa,UAAU,gBAAV,I;K;wDAGjB,
0B;MACI,oCAAa,4BAAmB,KAAnB,EAA0B,YAA1B,C;MAEb,WAAK,aAAI,mBAAY,KAAZ,IAAJ,EAAuB,OA
AvB,C;MACL,mC;K;wDAGJ,iB;MACI,oCAAa,2BAAkB,KAAlB,EAAyB,YAAzB,C;MAEb,OAAO,wBAAK,mB
AAY,KAAZ,IAAL,C;K;6DAGX,iB;MACI,oCAAa,2BAAkB,KAAlB,EAAyB,YAAzB,C;MAEb,aAAa,WAAK,kB
AAS,mBAAY,KAAZ,IAAT,C;MAClB,mC;MACA,OAAO,M;K;wDAGX,0B;MACI,oCAAa,2BAAkB,KAAlB,EA
AyB,YAAzB,C;MAEb,OAAO,WAAK,aAAI,mBAAY,KAAZ,IAAJ,EAAuB,OAAvB,C;K;mGAGO,Y;MAAQ,mB
;K;2DAE/B,Y;MAA+C,WAAK,iB;K;;;ICxMN,8B;MAAiC,sB;MAwCnF,uBAAoC,I;MA+CpC,yBAA6C,I;K;IAlF
R,oD;MAAC,wB;MAGlC,gBAAqB,K;K;iFAHa,Y;MAAA,yB;K;uGAKZ,Y;MAAQ,oB;K;8DAE9B,oB;MAKI,eA
Ae,IAAK,S;MACpB,gBAAc,Q;MACd,OAAO,Q;K;wDAGX,Y;MAA+B,iEAAc,IAAd,C;K;wDAC/B,Y;MAAkC,i
EAAc,IAAd,C;K;sDAClC,iB;MAA4C,+DAAY,IAAZ,EAAkB,KAAlB,C;K;;IAlB5C,8E;MAAAA,wE;MAAsC,2CA
AK,KAAM,IAAX,EAAgB,KAAM,MAAtB,C;MAAtC,Y;K;IAsBJ,+C;MACsE,6B;K;mEAClE,mB;MAAmD,kCA
Ac,OAAd,C;K;iEAEnD,mB;MAAiD,gCAAY,OAAZ,C;K;;yCAIrD,Y;MACI,YAAQ,Q;K;IAOQ,+F;MAAAA,sD;M
AAS,6B;K;uFACb,mB;MAAwC,MAAM,qCAA8B,8BAA9B,C;K;mFAC9C,Y;MACI,4BAAwB,Q;K;4FAG5B,mB
;MAAsD,sDAAY,OAAZ,C;K;IAI3C,oH;MAAAA,kD;K;4GACH,Y;MAAkC,OAAAA,0BAAc,U;K;yGAChD,Y;MAA
yB,OAAAA,0BAAc,OAAO,I;K;2GAC9C,Y;MAAwB,0BAAc,S;K;;sFAL9C,Y;MACI,oBAAoB,oCAAQ,W;MAC5
B,6G;K;0FAOJ,mB;MACI,qB;MACA,IAAI,+CAAY,OAAZ,CAAJ,C;QACI,4BAAwB,cAAO,OAAP,C;QACxB,O
AAO,I;OAEX,OAAO,K;K;oIAGY,Y;MAAQ,OAAAA,4BAAwB,K;K;4FAEvD,Y;MAAsC,4BAAwB,iB;K;;0FA9B
1E,Y;MACI,IAAI,4BAAJ,C;QACI,6F;OA+BJ,OAAO,mC;K;kDAKf,gB;MAEyB,Q;MADrB,qB;MACqB,OAAA,I
9E8Q2D,QAAQ,W;M8E9QxF,OAAqB,cAArB,C;QAAqB,wB;QAAf,U9EiMsD,U;Q8EjMjD,Y9E8MiD,Y;Q8E7M
xD,iBAAI,GAAJ,EAAS,KAAT,C;;K;IAQc,iG;MAAAA,sD;MAAS,oC;K;yFACf,mB;MAAwC,MAAM,qCAA8B,gC
AA9B,C;K;qFAC9C,Y;MAAuB,4BAAwB,Q;K;8FAE/C,mB;MAAsD,wDAAc,OAAd,C;K;IAI3C,sH;MAAAA,kD;
K;8GACH,Y;MAAkC,OAAAA,0BAAc,U;K;2GAChD,Y;MAAyB,OAAAA,0BAAc,OAAO,M;K;6GAC9C,Y;MAAw
B,0BAAc,S;K;;wFAL9C,Y;MACI,oBAAoB,oCAAQ,W;MAC5B,+G;K;sIAOmB,Y;MAAQ,OAAAA,4BAAwB,K;K
;8FAEvD,Y;MAAsC,4BAAwB,iB;K;;4FAnB1E,Y;MACI,IAAI,8BAAJ,C;QACI,iG;OAoBJ,OAAO,qC;K;gDAGf,e
;MACI,qB;MACA,WAAW,YAAQ,W;MACnB,OAAO,IAAK,UAAZ,C;QACI,YAAY,IAAK,O;QACjB,QAAQ,KA
AM,I;QACd,IAAI,YAAO,CAAP,CAAJ,C;UACI,YAAY,KAAM,M;UAClB,IAAK,S;UACL,OAAO,K;;MAGf,OA
AO,I;K;kDAIX,Y;K;;IC3I+C,8B;MAAiC,oC;K;0CAEhF,iB;MAMI,IAAI,UAAU,IAAd,C;QAAoB,OAAO,I;MAC3
B,IAAI,0BAAJ,C;QAAsB,OAAO,K;MAC7B,OAAO,mCAAY,mBAAU,IAAV,EAAgB,KAAhB,C;K;4CAGvB,Y;
MAG+B,OAAA,mCAAY,2BAAkB,IAAlB,C;K;;ICbT,0B;MAAuD,8B;MAAlC,4B;MACvD,4BAAkC,K;K;gCAk
BlC,Y;MAEI,qB;MACA,4BAAa,I;MACb,OAAO,I;K;qCAGX,Y;K;iDAGA,uB;K;iFAG8B,Y;MAAQ,OAAA,oBA
AM,O;K;sCAC5C,iB;MACyC,Q;MAAA,oCAAM,0BAAW,KAAX,CAAN,4D;K;sCACzC,0B;MAIW,IAAa,I;MA
HpB,qB;MACA,0BAAW,KAAX,C;MAEoB,gBAAb,qBAAM,KAAN,C;MAAqB,qC;MAA5B,OAAO,CAAa,OtE8
BjB,SsE9BI,2D;K;oCAGX,mB;MACI,qB;MACM,oBAAY,MAAK,OAAL,C;MAClB,qC;MACA,OAAO,I;K;sCA
GX,0B;MACI,qB;MACM,oBAAY,QAAO,mCAAoB,KAApB,CAAP,EAAmC,CAAnC,EAAsC,OAAtC,C;MAClB
,qC;K;yCAGJ,oB;MACI,qB;MACA,IAAI,QAAS,UAAb,C;QAAwB,OAAO,K;MAE/B,uBAAA,oBxEioDoB,QMjr
D0C,YkEgDrD,QlEhDqD,CNirD1C,C;MwEhoDpB,qC;MACA,OAAO,I;K;yCAGX,2B;MACI,qB;MACA,mCAAo
B,KAApB,C;MAEA,IAAI,UAAS,SAAb,C;QAAmB,OAAO,oBAAO,QAAP,C;MAC1B,IAAI,QAAS,UAAb,C;QA
AwB,OAAO,K;MAE3B,IADE,KACF,e;QAAQ,OAAO,oBAAO,QAAP,C;WACf,IAFE,KAEF,O;QAAK,uBlE7Dq
D,YkE6D7C,QlE7D6C,CNirD1C,QwEpnD6B,oBxEonD7B,C;;QwEnnDR,uBAAoC,cAA5B,oBAA4B,EAAV,CA
AU,EAAP,KAAO,CAAY,QlE9DE,YkE8DK,QlE9DL,CkE8DF,EAA4C,cAAN,oBAAM,EAAY,KAAZ,EAAmB,S
AAnB,CAA5C,C;;MAG5D,qC;MACA,OAAO,I;K;2CAGX,iB;MACI,qB;MACA,0BAAW,KAAX,C;MACA,qC;M
ACA,OAAW,UAAS,sBAAb,GACG,oBAAY,MADf,GAGG,oBAAY,QAAO,KAAP,EAAc,CAAd,CAAlB,CAAm

C,CAAnC,C;K;uCAGR,mB;MAEkB,Q;MADd,qB;MACc,2B;MAAd,mD;QACI,IAAI,4BAAM,KAAN,GAAgB,O
AAhB,CAAJ,C;UACU,oBAAY,QAAO,KAAP,EAAc,CAAd,C;UAClB,qC;UACA,OAAO,I;;MAGf,OAAO,K;K;8
CAGX,8B;MACI,qB;MACA,qC;MACM,oBAAY,QAAO,SAAP,EAAkB,UAAU,SAAV,IAAlB,C;K;gCAGtB,Y;M
ACI,qB;MACA,uB9BhHuC,E;M8BiHvC,qC;K;wCAIJ,mB;MAA+C,OAAM,QAAN,oBAAM,EAAQ,OAAR,C;K;
4CAErD,mB;MAAmD,OAAM,YAAN,oBAAM,EAAY,OAAZ,C;K;mCAEzD,Y;MAA0B,uBAAc,oBAAd,C;K;0C
AE1B,iB;MAGe,UAGL,MAHK,EAMO,M;MAPlB,IAAI,KAAM,OAAN,GAAa,SAAjB,C;QACI,OAAO,2D;OAG
c,gBAAxB,eAAK,SAAL,IAAK,gBAAL,yB;MxEuwBL,UAAU,SAAV,EwEvwBsC,KxEuwBtC,EAD+F,CAC/F,E
ADoH,CACpH,EADuI,gBACvI,C;MwErwBI,IAAI,KAAM,OAAN,GAAa,SAAjB,C;QACI,MAAM,SAAN,IAAc,6
E;OAGlB,OAAO,K;K;kCAGX,Y;MACI,OAAO,EAAS,MAAM,MAAK,oBAAL,C;K;yCAI1B,Y;MACI,IAAI,yBA
AJ,C;QAAgB,MAAM,oC;K;+CAG1B,iB;MACI,oCAAa,kCAAyB,SAAzB,C;MADoB,Y;K;wDAIrC,iB;MACI,oC
AAa,mCAA0B,SAA1B,C;MAD6B,Y;K;;IAlJ9C,+B;MAAA,mD;MAG8B,sB9BRa,E8BQb,C;MAH9B,Y;K;IAKA,
kD;MAAA,mD;MAIkD,sB9BdP,E8BcO,C;MAJlD,Y;K;IAMA,2C;MAAA,mD;MAGqD,sBlENa,YkEMR,QlENQ,
CkEMb,C;MAHrD,Y;K;ICrBJ,0C;MACI,IAAI,6BAAJ,C;QACU,KAAY,MAAK,UAAL,C;;QAElB,UAAU,KAAV
,EAAwC,CAAxC,EAAiD,cAAN,KAAM,CAAjD,EAA4D,eAAW,UAAX,CAA5D,C;;K;IAMiB,kD;MAAA,uB;QA
AgB,OAAA,kBAAW,SAAQ,CAAR,EAAW,CAAX,C;O;K;IAFpD,4C;MACI,IAAI,6BAAJ,C;QACI,iBAAiB,gC;Q
ACX,KAAY,MAAK,UAAL,C;;QAElB,UAAU,KAAV,EAAwC,CAAxC,EAAiD,cAAN,KAAM,CAAjD,EAA4D,
UAA5D,C;;K;IAIR,gE;MACI,IAAI,aAAY,UAAU,CAAV,IAAZ,CAAJ,C;QACI,UAAU,KAAV,EAAwC,SAAxC,
EAAmD,UAAU,CAAV,IAAnD,EAAgE,UAAhE,C;Q;IAMiB,gC;MAAgB,OAAE,iBAAF,CAAE,EAAU,CAAV,C;
K;IAF3C,0B;MACI,IAAI,6BAAJ,C;QACI,iBAAiB,gB;QACX,KAAY,MAAK,UAAL,C;;QAElB,UAAU,KAAV,E
AAwC,CAAxC,EAAiD,cAAN,KAAM,CAAjD,EAA4D,cAA5D,C;;K;;IAaa,kD;MAAoB,QAAC,IAAM,CAAP,KA
Aa,IAAM,CAAnB,K;K;IARzC,uC;MACI,sC;QAAiC,OAAjC,yB;OACA,4BAA4B,K;MAE5B,YAAY,E;MAGZ,iB
AAc,CAAd,UAAsB,GAAtB,U;QAAiC,KAAY,MAAK,KAAL,C;MAC7C,iBAAiB,kC;MACX,KAAY,MAAK,UA
AL,C;MAClB,mBAAc,CAAd,YAAsB,KAAM,OAA5B,Y;QACI,QAAQ,MAAM,UAAQ,CAAR,IAAN,C;QACR,Q
AAQ,MAAM,OAAN,C;QACR,IAAI,CAAC,IAAM,CAAP,OAAc,IAAM,CAApB,KAA0B,KAAK,CAAnC,C;UA
AsC,OAAO,K;;MAEjD,4BAA4B,I;MAC5B,OAAO,I;K;IAIX,2D;MACI,aAAa,gBAAmB,KAAM,OAAzB,O;MAC
b,aAAa,YAAU,KAAV,EAAiB,MAAjB,EAAyB,KAAzB,EAAgC,YAAhC,EAA8C,UAA9C,C;MACb,IAAI,WAA
W,KAAf,C;QACI,aAAU,KAAV,OAAiB,YAAjB,M;UAA+B,MAAM,CAAN,IAAW,OAAO,CAAP,C;Q;IAIlD,4D;
MAEI,IAAI,UAAS,GAAb,C;QACI,OAAO,K;OAGX,aAAa,CAAC,QAAQ,GAAR,IAAD,IAAgB,CAAhB,I;MACb
,WAAW,YAAU,KAAV,EAAiB,MAAjB,EAAyB,KAAzB,EAAgC,MAAhC,EAAwC,UAAxC,C;MACX,YAAY,Y
AAU,KAAV,EAAiB,MAAjB,EAAyB,SAAS,CAAT,IAAzB,EAAqC,GAArC,EAA0C,UAA1C,C;MAEZ,aAAiB,S
AAS,MAAb,GAAqB,KAArB,GAAgC,M;MAG7C,gBAAgB,K;MAChB,iBAAiB,SAAS,CAAT,I;MACjB,aAAU,K
AAV,OAAiB,GAAjB,M;QAEQ,iBAAa,MAAb,IAAuB,cAAc,GAArC,C;UACI,gBAAgB,KAAK,SAAL,C;UAChB
,iBAAiB,MAAM,UAAN,C;UAEjB,IAAI,UAAW,SAAQ,SAAR,EAAmB,UAAnB,CAAX,IAA6C,CAAjD,C;YACI
,OAAO,CAAP,IAAY,S;YACZ,6B;;YAEA,OAAO,CAAP,IAAY,U;YACZ,+B;;eAGR,iBAAa,MAAb,C;UACI,OA
AO,CAAP,IAAY,KAAK,SAAL,C;UACZ,6B;;UAGA,OAAO,CAAP,IAAY,MAAM,UAAN,C;UACZ,+B;;;MAMZ
,OAAO,M;K;ICrGX,4C;MAMoB,UACM,M;MAHtB,IAAI,iBAAJ,C;QAAkB,OAAO,C;MACzB,aAAa,C;MACb,
wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAEQ,oB;UAAmB,U;;UACnB,I1BFiC,MAAa,Y0BEnC,O1BFm
C,C0BE9C,C;YAAwD,iCAAhC,OAAgC,C;;iBAExD,uC;YAAmC,2BAAR,OAAQ,C;eACnC,wC;YAAmC,2BAAR
,OAAQ,C;eACnC,sC;YAAmC,2BAAR,OAAQ,C;eACnC,uC;YAAmC,2BAAR,OAAQ,C;;YAEA,kBAAR,OAAQ,
C;;QATvC,wB;QAYA,SAAS,MAAK,MAAL,QAAc,WAAd,I;;MAEb,OAAO,M;K;;;ICTP,uC;MAAAA,2C;K;2DAC
I,0B;MAA2D,sBAAU,MAAV,C;K;gEAE3D,iB;MAA6C,Q;MAAAA,wEAAqB,C;K;;;IAHtE,mD;MAAAA,kD;QAA
A,iC;OAAAA,2C;K;;;MC0BA,iC;MAKA,8B;MA6CA,0BAAmE,I;;IAzEnE,kC;MAAAA,oB;MAA+B,8C;K;2CAE3B,
mB;MAAyD,MAAM,qCAA8B,iCAA9B,C;K;uCAC/D,Y;MACI,WAAa,Q;K;uDAGjB,mB;MAAgE,OAAA,WAAa
,uBAAc,OAAd,C;K;0CAE7E,Y;MAAwE,OAAA,iCAAY,W;K;qDAEpF,mB;MACI,IAAI,iBAAS,OAAT,CAAJ,C;
QACI,WAAa,cAAO,OAAQ,IAAf,C;QACb,OAAO,I;OAEX,OAAO,K;K;wFAGY,Y;MAAQ,OAAA,WAAa,K;K;;
8BA6ChD,Y;MACI,0BAAY,Q;K;0CAIhB,e;MAAmD,OAAA,0BAAY,gBAAS,GAAT,C;K;4CAE/D,iB;MAAmE,
gBAAZ,0B;MAAY,c;;QvE+mDnD,Q;QADhB,IAAI,wCAAsB,mBAA1B,C;UAAqC,aAAO,K;UAAP,e;SACrB,2B;
QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IuE/mDmD,uBAAS,gBvE+mD9C,OuE/mDwD,MAAV,QvE+mD

5D,C;YAAwB,aAAO,I;YAAP,e;;QAC9C,aAAO,K;;;MuEhnDgD,iB;K;kFAInD,Y;MACI,IAAI,+BAAJ,C;QACI,0
BAAW,qB;OAEf,OAAO,sC;K;uCAGf,Y;MAAgF,iC;K;kCAEhF,e;MAA+C,OAAA,0BAAY,WAAI,GAAJ,C;K;o
CAE3D,sB;MAAgD,OAAA,0BAAY,aAAI,GAAJ,EAAS,KAAT,C;K;qCAE5D,e;MAAyC,OAAA,0BAAY,cAAO,
GAAP,C;K;+EAEvB,Y;MAAQ,OAAA,0BAAY,K;K;;IA5DlD,0C;MAAA,iD;MAAuD,8B;MAvC3D,mB;MAwCQ
,8BAAmB,W;MACnB,2BAAgB,WAAY,S;MAFhC,Y;K;IAKA,+B;MAAA,iD;MAGuB,aAAK,kEAAL,Q;MAHvB
,Y;K;IAKA,4D;MAAA,iD;MAQ8D,qB;M7EpC9D,IAAI,E6EsCQ,mBAAmB,C7EtC3B,CAAJ,C;QACI,c6EqCgC,
+C;Q7EpChC,MAAM,gCAAyB,OAAQ,WAAjC,C;OAFV,IAAI,E6EuCQ,cAAc,C7EvCtB,CAAJ,C;QACI,gB6EsC
2B,yC;Q7ErC3B,MAAM,gCAAyB,SAAQ,WAAjC,C;O6E0BV,Y;K;IAcA,gD;MAAA,iD;MAA2C,eAAK,eAAL,E
AAsB,GAAtB,Q;MAA3C,Y;K;IAGA,yC;MAAA,iD;MAG8C,qB;MAC1C,KAAK,gBAAO,QAAP,C;MAJT,Y;K;I
AqCJ,4B;MAK8E,gBAAnE,aAAmB,gEAAnB,C;MAA2E,wB;MAAlF,O1EvCO,S;K;;M2EjEP,uB;;kCAyCA,mB;
MACI,UAAU,gBAAI,aAAI,OAAJ,EAAa,IAAb,C;MACd,OAAO,W;K;8BAGX,Y;MACI,gBAAI,Q;K;uCAOR,mB
;MAA6D,OAAA,gBAAI,mBAAY,OAAZ,C;K;gCAEjE,Y;MAAyC,OAAA,gBAAI,U;K;iCAE7C,Y;MAAqD,OAA
A,gBAAI,KAAK,W;K;qCAE9D,mB;MAAkD,OAAA,gBAAI,cAAO,OAAP,CAAJ,Q;K;+EAEpB,Y;MAAQ,OAA
A,gBAAI,K;K;;IA5D1C,6B;MAAA,iD;MAGoB,8B;MAZxB,mB;MAaQ,oBAAM,gB;MAJV,Y;K;IAOA,yC;MAA
A,iD;MAG2C,8B;MAnB/C,mB;MAoBQ,oBAAM,eAAgB,QAAS,KAAzB,C;MACN,qBAAO,QAAP,C;MALJ,Y;K
;IAQA,4D;MAAA,iD;MAQ2D,8B;MAhC/D,mB;MAiCQ,oBAAM,eAAgB,eAAhB,EAAiC,UAAjC,C;MATV,Y;K;
IAYA,gD;MAAA,iD;MAA2C,eAAK,eAAL,EAAsB,GAAtB,Q;MAA3C,Y;K;IAEA,oC;MAAA,iD;MAM0C,8B;M
A5C9C,mB;MA6CQ,oBAAW,G;MAPf,Y;K;IAmCJ,+B;MAKuC,gBAA5B,eAAQ,eAAR,C;MAAoC,6B;MAA3C,
O3ENO,S;K;I4EzD6B,uC;MAAC,kC;MAErC,oBAAkC,kB;MAClC,sBAAyB,C;K;2EAHY,Y;MAAA,8B;K;2FAG
rC,Y;MAAA,0B;K,OAAA,gB;MAAA,0B;K;gDAGA,sB;MACI,eAAe,aAAS,qBAAY,GAAZ,C;MACxB,mBAAm
B,6BAAsB,QAAtB,C;MACnB,IAAI,oBAAJ,C;QAEI,kBAAW,QAAX,IAAuB,mCAAY,GAAZ,EAAiB,KAAjB,C;
;QAEvB,IAAI,6BAAJ,C;UAEI,YAA+B,Y;UAC/B,IAAI,aAAS,gBAAO,KAAM,IAAb,EAAkB,GAAlB,CAAb,C;Y
ACI,OAAO,KAAM,gBAAS,KAAT,C;;YAEb,kBAAW,QAAX,IAAuB,CAAQ,KAAR,EAAe,mCAAY,GAAZ,EA
AiB,KAAjB,CAAf,C;YACvB,6B;YACA,OAAO,I;;;UAIX,YAAuC,Y;UACvC,cAAkB,wBAAN,KAAM,EAAiB,G
AAjB,C;UAClB,IAAI,eAAJ,C;YACI,OAAO,OAAM,gBAAS,KAAT,C;WAEX,KAAY,MAAK,mCAAY,GAAZ,E
AAiB,KAAjB,CAAL,C;;;MAG1B,6B;MAEA,OAAO,I;K;iDAGX,e;MAEuB,Q;MADnB,eAAe,aAAS,qBAAY,GA
AZ,C;MACL,oCAAsB,QAAtB,C;MAAA,iB;QAAmC,OAAO,I;OAA7D,mBAAmB,I;MACnB,IAAI,6BAAJ,C;QA
CI,YAAgC,Y;QAChC,IAAI,aAAS,gBAAO,KAAM,IAAb,EAAkB,GAAlB,CAAb,C;U5BzDR,O4B0D6B,iB5B1D
vB,C4B0DmC,Q5B1DnC,C;U4B2DM,6B;UACA,OAAO,KAAM,M;;UAEb,OAAO,I;;;QAGX,YAAuC,Y;QACvC,
8BAAc,KAAd,iB;UACI,cAAY,MAAM,KAAN,C;UACZ,IAAI,aAAS,gBAAO,GAAP,EAAY,OAAM,IAAlB,CAA
b,C;YACI,IAAI,KAAM,OAAN,KAAc,CAAlB,C;cACU,KAAN,UAA2B,C;c5BtE/C,O4BwEqC,iB5BxE/B,C4BwE
2C,Q5BxE3C,C;;c4B2EoB,KAAY,QAAO,KAAP,EAAc,CAAd,C;;YAEtB,6B;YAEA,OAAO,OAAM,M;;;MAIzB,
OAAO,I;K;0CAGX,Y;MACI,oBAAa,kB;MACb,YAAO,C;K;mDAGX,e;MAAyC,uBAAS,GAAT,S;K;8CAEzC,e;
MAA+B,Q;MAAA,+BAAS,GAAT,8B;K;+CAE/B,e;MACuB,Q;MAAA,oCAAsB,aAAS,qBAAY,GAAZ,CAA/B,C
;MAAA,iB;QAAoD,OAAO,I;OAA9E,mBAAmB,I;MACnB,IAAI,6BAAJ,C;QACI,YAAgC,Y;QAChC,IAAI,aAAS
,gBAAO,KAAM,IAAb,EAAkB,GAAlB,CAAb,C;UACI,OAAO,K;;UAEP,OAAO,I;;;QAGX,YAAuC,Y;QACvC,O
AAa,wBAAN,KAAM,EAAiB,GAAjB,C;;K;uDAIrB,0B;MACI,sB;;Q7F+nCY,Q;QAAhB,iD;UAAgB,cAAhB,e;U
AAsB,I6F/nCK,aAAS,gB7F+nCA,O6F/nCa,IAAb,M7F+nCd,C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;
;;M6FhoCH,yB;K;IAIO,8E;MAAA,wD;MACH,aAAY,E;MAEZ,YAA0B,MAAa,MAAK,qCAAL,C;MACvC,gBA
Ae,E;MAEf,oBAA4B,I;MAC5B,eAAc,K;MACd,iBAAgB,E;MAChB,iBAAqC,I;K;yEAErC,Y;MACI,IAAI,6BAA
wB,YAA5B,C;QACI,gBAAqB,iBAAqD,O;QAC1E,IAAI,4DAAc,SAAlB,C;UACI,OAAO,C;OAGf,IAAI,yDAAa,
SAAK,OAAtB,C;QACI,oBAAe,2CAAW,UAAK,aAAL,CAAX,C;QACf,eAAU,iC;QACV,iBAAY,C;QACZ,OAA
O,C;;QAEP,oBAAe,I;QACf,OAAO,C;;K;mEAIf,Y;MACI,IAAI,eAAS,EAAb,C;QACI,aAAQ,oB;MACZ,OAAO,e
AAS,C;K;gEAGpB,Y;MAEoB,Q;MADhB,IAAI,CAAC,cAAL,C;QAAgB,MAAM,6B;MACN,IAAI,YAAJ,C;QAC
Z,yBAAqD,cAArD,C;;QAEa,OAAb,iB;;MAHJ,oB;MAKA,iBAAiB,S;MACjB,aAAQ,E;MACR,OAAO,S;K;kEAG
X,Y;M/E/CR,I+EgDyB,c/EhDrB,QAAJ,C;QACI,cAhByB,0B;QAiBzB,MAAM,6BAAsB,OAAQ,WAA9B,C;O+E+
CE,6BAAyB,cAAO,6BAAY,IAAAnB,C;MACCzB,iBAAY,I;MAEZ,uC;K;;6CAtDZ,Y;MAEI,2D;K;4DAyDJ,oB;MA
CI,mBAAmB,kBAAW,QAAX,C;MACnB,OAAW,iBAAiB,SAArB,GAAAgC,IAAhC,GAA0C,Y;K;;;;wCCtKrD,Y;

MACI,aAAR,MAAM,OAAe,CAAP,IAAO,C;MAEb,OAAO,KAAP,IAAgB,C;M7BXpB,O6BYqB,M7BZf,C6BYu
B,K7BZvB,C;M6BaF,OAAO,M;K;;ICNuB,qC;MAAC,kC;MAEnC,oBAAkC,kB;MAClC,sBAAyB,C;K;yEAHU,Y
;MAAA,8B;K;yFAGnC,Y;MAAA,0B;K,OAAA,gB;MAAA,0B;K;iDAWA,e;MACI,IAAI,0BAAJ,C;QAAoB,OAA
O,K;MAC3B,OAAO,kBAAW,GAAX,MAAoB,S;K;4CAG/B,e;MACI,IAAI,0BAAJ,C;QAAoB,OAAO,I;MAC3B,
YAAY,kBAAW,GAAX,C;MACZ,OAAW,UAAU,SAArB,GAAgC,KAAhC,GAA2D,I;K;8CAI/D,sB;MjFVA,IAAI
,EiFWQ,uBjFXR,CAAJ,C;QACI,cAda,qB;QAeb,MAAM,gCAAyB,OAAQ,WAAjC,C;OiFUN,eAAe,kBAAW,GA
AX,C;MACf,kBAAW,GAAX,IAAkB,K;MAElB,IAAI,aAAa,SAAjB,C;QACI,6B;QAEA,OAAO,I;;QAGP,OAAO,
Q;;K;+CAIf,e;MACI,IAAI,0BAAJ,C;QAAoB,OAAO,I;MAC3B,YAAY,kBAAW,GAAX,C;MACZ,IAAI,UAAU,S
AAd,C;Q9BnDJ,O8BoDyB,iB9BpDnB,C8BoD+B,G9BpD/B,C;Q8BqDE,6B;QAEA,OAAO,K;;QAGP,OAAO,I;;K
;wCAKf,Y;MACI,oBAAa,kB;MACb,YAAO,C;K;IAKA,0E;MAAA,oD;MACH,cAAkC,MAAa,MAAK,mCAAL,C
;MAC/C,kBAA4B,qBAAL,WAAK,C;MAC5B,iBAA+B,I;K;iEAE/B,Y;MAAkC,OAAA,eAAS,U;K;8DAE3C,Y;M
AIuB,gB;MAHnB,UAAU,eAAS,O;MACnB,iBAAU,G;MAES,+E;MAAnB,OAAO,iD;K;gEAGX,Y;MAEkC,UAA
9B,M;MAAA,oC;MAA8B,YAAa,c;MjFchD,uB;MAeP,IAfoB,KAehB,QAAJ,C;QACI,cAhByB,0B;QAiBzB,MAA
M,6BAAsB,OAAQ,WAA9B,C;;QAEN,sBAnBgB,K;;MiFde,oBAAO,sFAAP,C;K;;2CAjBnC,Y;MACI,yD;K;IAqB
kD,0F;MAAA,8B;MAAA,oD;K;kHAC9B,Y;MAAQ,uB;K;oHACN,Y;MAAQ,6CAAuB,gBAAvB,C;K;2EAE9B,o
B;MAAwC,OAAA,2BAAuB,aAAI,gBAAJ,EAAS,QAAT,C;K;qEAE/D,Y;MAA+B,OAAA,mCAAY,uBAAc,IAAd
,C;K;qEAC3C,Y;MAAkC,OAAA,mCAAY,uBAAc,IAAd,C;K;mEAC9C,iB;MAA4C,OAAA,mCAAY,qBAAY,IA
AZ,EAAkB,KAAlB,C;K;;gDAR5D,e;MAAsD,iE;K;;;MCItD,sBAOsC,I;MA6CtC,yB;MAOA,4BAAkC,K;;IArIE,s
D;MAZpC,oB;MAYyD,0CAAqC,GAArC,EAA0C,KAA1C,C;MACrD,oBAAuC,I;MACvC,oBAAuC,I;K;wDAEv
C,oB;MACI,WAAmB,iB;MACnB,OAAa,mEAAS,QAAT,C;K;;IAIrB,wC;MAAA,oB;MAA+B,8C;K;IAE3B,sD;M
AAA,oB;MACI,cACsC,I;MAEtC,cACsC,I;MAGlC,cAAO,iC;K;6DAIX,Y;MACI,OAAO,gBAAS,I;K;0DAGpB,Y;
MAEI,IAAI,CAAC,cAAL,C;QAAgB,MAAM,6B;MAEtB,cAAc,0B;MACd,cAAO,O;MACa,gBAAb,OAAQ,a;;M
AAf,c/E0DS,S+E1DoB,KAAO,iC/E0DzC,GAAqB,SAArB,GAA+B,I;M+EzD1B,OAAO,O;K;4DAGX,Y;MlFwBR
,IAAI,EkFvBc,eAAQ,IlFuBtB,CAAJ,C;QACI,cAdW,e;QAeX,MAAM,6BAAsB,OAAQ,WAA9B,C;OkFxBE,WA
Ac,iB;MAGP,oCAAP,0BAAO,C;MACP,gCAAI,cAAO,0BAAO,IAAd,C;MAEJ,cAAO,I;K;;iDAIf,mB;MAAyD,M
AAM,qCAA8B,iCAA9B,C;K;6CAC/D,Y;MACI,WAAmB,Q;K;6DAGvB,mB;MAAgE,OAAA,WAAmB,uBAAc,
OAAd,C;K;gDAEnF,Y;MAAwE,qD;K;2DAExE,mB;MACI,qB;MACA,IAAI,iBAAS,OAAT,CAAJ,C;QACI,WAA
mB,cAAO,OAAQ,IAAf,C;QACnB,OAAO,I;OAEX,OAAO,K;K;8FAGY,Y;MAAQ,OAAA,WAAmB,K;K;sDAEl
D,Y;MAAsC,WAAmB,iB;K;;iDAa7D,qB;MlFrBA,IAAI,EkF0BM,0BAAQ,IAAR,IAAgB,0BAAQ,IlF1B9B,CAAJ
,C;QACI,cAdW,e;QAeX,MAAM,6BAAsB,OAAQ,WAA9B,C;OkF0BN,YAAY,mB;MACZ,IAAI,SAAS,IAAb,C;
QACI,sBAAO,S;QACP,yBAAO,S;QACP,yBAAO,S;;QAGK,YAAa,KAAM,a;QlFlBhC,uB;QAeP,IAfoB,KAehB,
QAAJ,C;UACI,gBAhByB,0B;UAiBzB,MAAM,6BAAsB,SAAQ,WAA9B,C;;UAEN,sBAnBgB,K;;QkFkBZ,+B;Q
AEA,yBAAO,K;QACP,yBAAO,K;QAEP,qBAAa,S;QACb,qBAAa,S;;K;+CAIrB,qB;MAII,IAAI,SAAK,aAAL,KA
Ac,SAAlB,C;QAEI,sBAAO,I;;QAEP,IAAI,wBAAS,SAAb,C;UAEI,sBAAO,sB;SAEX,qDAAc,sB;QACd,qDAAc,s
B;;MAElB,yBAAO,I;MACP,yBAAO,I;K;oCA8CX,Y;MAEI,qB;MACA,4BAAa,I;MACb,OAAO,I;K;oCAGX,Y;
MACI,qB;MACA,kBAAI,Q;MACJ,sBAAO,I;K;gDASX,e;MAAmD,OAAA,kBAAI,mBAAY,GAAZ,C;K;kDAEv
D,iB;MACiC,Q;MAAA,0B;MAAA,iB;QAAQ,OAAO,K;OAA5C,WAA6B,I;;QAEzB,IAAI,OAAA,IAAK,MAAL,
EAAc,KAAd,CAAJ,C;UACI,OAAO,I;SAEX,OAAO,cAAA,IAAK,aAAL,C;;MACF,iBAAS,mBAAT,C;MACT,O
AAO,K;K;6CAIX,Y;MAAoF,uC;K;wCAEpF,e;MAAmD,Q;MAAJ,QAAI,OAAJ,kBAAI,WAAI,GAAJ,CAAJ,6B;
K;0CAE/C,sB;MACI,qB;MAEA,UAAU,kBAAI,WAAI,GAAJ,C;MACd,IAAI,OAAO,IAAX,C;QACI,eAAe,mCA
AW,GAAX,EAAgB,KAAhB,C;QACf,kBAAI,aAAI,GAAJ,EAAS,QAAT,C;QACK,wBAAT,QAAS,C;QACT,OA
AO,I;;QAEP,OAAO,GAAI,gBAAS,KAAT,C;;K;2CAInB,e;MACI,qB;MAEA,YAAY,kBAAI,cAAO,GAAP,C;MA
ChB,IAAI,SAAS,IAAb,C;QACU,sBAAN,KAAM,C;QACN,OAAO,KAAM,M;OAEjB,OAAO,I;K;qFAGmB,Y;M
AAQ,OAAA,kBAAI,K;K;6CAE1C,Y;MACI,IAAI,yBAAJ,C;QAAgB,MAAM,oC;K;;IAnG1B,mC;MAAA,uD;MA
GuB,qB;MA9J3B,yB;MA+JQ,sBAAM,gB;MAJV,Y;K;IAOA,iD;MAAA,uD;MAAoD,qB;MAlKxD,yB;MAoKc,Q;
MAAN,sBAAM,+D;MAFV,Y;K;IAKA,kE;MAAA,uD;MAQ8D,eAAM,eAAN,EAAuB,UAAvB,Q;MA/KlE,yB;M
AgLQ,sBAAM,gB;MATV,Y;K;IAYA,sD;MAAA,uD;MAA2C,qBAAK,eAAL,EAAsB,GAAtB,Q;MAA3C,Y;K;IA
EA,+C;MAAA,uD;MAG2C,qB;MAxL/C,yB;MAyLQ,sBAAM,gB;MACN,KAAK,gBAAO,QAAP,C;MALT,Y;K;I

A6EJ,kC;MAKwD,gBAA7C,qBAAyB,eAAzB,C;MAAqD,wB;MAA5D,O/EjMO,S;K;;;oCgFvCP,Y;MAEK,Q;MA
A8B,CAA9B,2EAA8B,S;MAC/B,OAAO,I;K;6CAGX,Y;MAA+C,gBAAI,iB;K;;IAhCnD,wC;MAAA,uD;MAAmD
,eAAM,GAAN,Q;MAPvD,yB;MAOI,Y;K;IAEA,qC;MAAA,uD;MAGuB,eAAM,oBAAN,Q;MAZ3B,yB;MASI,Y;
K;IAKA,+C;MAAA,uD;MAG8C,eAAM,oBAAN,Q;MAjBlD,yB;MAkBQ,qBAAO,QAAP,C;MAJJ,Y;K;IAOA,kE;
MAAA,uD;MAQ8D,eAAM,qBAAsB,eAAtB,EAAuC,UAAvC,CAAN,Q;MA7BlE,yB;MAqBI,Y;K;IAUA,sD;MA
AA,uD;MAA2C,qBAAK,eAAL,EAAsB,GAAtB,Q;MAA3C,Y;K;IAgBJ,qC;MAKmD,gBAAxC,mBAAc,qBAAd,C
;MAAgD,6B;MAAvD,OhFoBO,S;K;;;;kFiFzEX,uB;MAQI,OAAO,O;K;ICXX,sB;K;mCACI,Y;MACI,mBAAM,IA
AN,C;K;2CAGJ,mB;MACI,mBAAM,OAAN,C;MACA,c;K;iCAKJ,Y;K;;IAKuB,oC;MAA8B,qB;MAA7B,gC;K;2
CACxB,mB;MAEI,oBA+DyC,OA/Dd,OA+Dc,C;MA9DzC,iBAAa,OAAM,aAAN,C;K;;IAIrB,8B;MAEoC,qB;K;i
DAChC,mB;MACI,OAAQ,KAAI,OAAJ,C;K;mDAGZ,mB;MACI,OAAQ,KAAI,OAAJ,C;K;2CAGZ,Y;MACI,OA
AQ,KAAI,EAAJ,C;K;;IAIhB,0B;MAEqC,qB;MACjC,cAAa,E;K;6CAEb,mB;MACI,eAoCyC,OApCxB,OAoCwB,
C;K;qCAjC7C,Y;MACI,cAAS,E;K;;IAIjB,sC;MAE4C,yB;K;yDACxC,mB;MACI,QAwByC,OAxB1B,OAwB0B,C
;MAvBzC,QAAQ,CxEqJoF,awErJhE,IxEqJgE,EwErJ1D,CxEqJ0D,C;MwEpJ5F,IAAI,KAAK,CAAT,C;QACI,4BA
AU,CxE+J0E,WwE/J9D,CxE+J8D,EwE/J3D,CxE+J2D,C;QwE9JpF,Y;QACA,IAAI,CxE0JiE,WwE1JrD,IAAI,CA
AJ,IxE0JqD,C;OwExJzE,4BAAU,C;K;iDAGd,Y;MACI,OAAQ,KAAI,WAAJ,C;MACR,cAAS,E;K;;;IAWjB,yB;M
ACiD,cAAa,KAAb,C;K;IAEjD,mB;MAEI,MAAO,U;K;IAGX,4B;MAEI,MAAO,iBAAQ,OAAR,C;K;IAGX,wB;
MAEI,MAAO,eAAM,OAAN,C;K;IAGX,kB;MACqC,MAAM,qCAA8B,sCAA9B,C;K;IAE3C,wB;MAC4C,MAA
M,qCAA8B,4CAA9B,C;K;IClGlD,mD;MACI,0B;MASA,gBAA2B,a;K;2FAFvB,Y;MAAQ,OAAA,eAAS,Q;K;oD
AIrB,kB;MACI,UAAU,IAAK,S;MAEX,YAAQ,2CAAR,C;QACI,gBAAc,MAAO,M;WAEzB,YAAQ,yBAAR,C;Q
ACI,gBAAc,yC;QACd,eAAS,oBAAW,MAAX,C;;QAEL,MAAM,6BAAsB,iBAAtB,C;K;4CAItB,Y;MAOW,Q;M
ALP,IAAI,kBAAW,2CAAf,C;QACI,gBAAS,yB;QACT,OAAO,yB;OAEX,aAAa,IAAK,S;MAEd,eAAW,yCAAX,
C;QAAsB,gC;WACtB,0C;QAA4B,MAAM,MAAO,U;;QACjC,a;MAHZ,W;K;;IA7BJ,gD;MAAA,0D;MACyD,6B
AAK,QAAL,EAAe,2CAAf,C;MADzD,Y;K;;;;;ICRA,2C;MAAA,+D;MAAuB,iC;MAF3B,iC;MAEI,Y;K;IACA,sD
;MAAA,+D;MAAuC,6BAAM,OAAN,Q;MAH3C,iC;MAGI,Y;K;IACA,6D;MAAA,+D;MAAmD,kCAAM,OAAN,
EAAe,KAAf,C;MAJvD,iC;MAII,Y;K;IACA,oD;MAAA,+D;MAAiC,6BAAM,KAAN,Q;MALrC,iC;MAKI,Y;K;Ix
C4CJ,yE;MASI,sC;MAAA,4C;K;IATJ,iGAWY,Y;MAAQ,2B;KAXpB,E;IAAA,0DAaQ,kB;MACI,wBAAW,MAA
X,C;K;IAdZ,sF;IyC5C2E,0C;M1CkKhE,Q;MADP,e0ChKA,M1CgKA,C;MACO,Q0CjKP,M1CiKO,+D;M0ChKX,
W;K;;+FCuHA,gB;MACI,aAAa,IAAb,MAAa,E;MACb,KAAK,MAAL,C;MACA,OAAO,M;K;wFC3HX,yB;MAA
A,uD;MAAA,wC;QAWqG,OAAK,cAAL,SAAK,EAAiB,IAAjB,EAAuB,IAAvB,C;O;KAX1G,C;wFAaA,yB;MAA
A,uD;MAAA,wC;QAWoG,OAAK,cAAL,SAAK,EAAiB,IAAjB,EAAuB,IAAvB,C;O;KAXzG,C;8ECbA,yB;MAA
A,6C;MAAA,sC;QAOyD,OAAK,SAAL,SAAK,EAAY,QAAZ,C;O;KAP9D,C;8EASA,yB;MAAA,6C;MAAA,wC;
QAWkE,OAAK,SAAL,SAAK,EAAa,UAAb,S;O;KAXvE,C;oFAaA,yB;MAAA,mD;MAAA,wC;QAWqE,OAAK,
YAAL,SAAK,EAAgB,UAAhB,S;O;KAX1E,C;kFCZI,yB;MAAA,iD;MAAA,4B;QAAe,OAAK,WAAL,SAAK,C;
O;KAApB,C;wFAYA,yB;MAAA,uD;MAAA,4B;QAAe,OAAK,cAAL,SAAK,C;O;KAApB,C;IC5BJ,gC;MAAoE,
gCAAqB,OAArB,C;K;IAElC,uC;MAAC,wB;K;iDAC/B,iB;MACI,eAAQ,KAAR,C;K;8CAGJ,Y;MAAyC,iCAAuB
,cAAvB,M;K;;ICCO,6C;MAAA,8B;MAAS,uB;K;8FAClC,Y;MAAQ,OAAA,gBAAY,O;K;mDAE3C,iB;MACI,IA
DoC,KACpC,IAAG,CAAH,IADoC,KACpC,IAAM,sBAAN,C;QAD8B,OACX,gBAAY,MAAK,KAAL,C;;QACvB
,MAAM,8BAA0B,WAAQ,KAAR,6BAAmC,sBAAnC,MAA1B,C;K;;IARtB,8B;MAGoD,4C;K;wECFpD,yB;MA
AA,uC;MAAA,4B;QAOsC,MAAL,SAAK,C;O;KAPtC,C;kFASA,yB;MAAA,iD;MAAA,kC;QAWuD,OAAK,WA
AL,SAAK,EAAc,IAAd,C;O;KAX5D,C;+ECfA,qB;MAI8C,gB;K;iFAE9C,qB;MAIsE,OAAK,S;K;kFAE3E,qB;MA
MyE,gB;K;IAEzE,6B;MAiBa,UAPF,M;MAFP,QAAc,S;MAGV,cAAK,UAAL,U;QACI,mBAAK,UAAL,G;;QACJ
,I/CzBqC,MAAa,Y+CyBvC,C/CzBuC,C+CyBlD,C;UAC6B,8BAAzB,CAAyB,C;;UAGN,UAAlB,uDAAkB,Y;;MA
P3B,a;K;IC9BJ,2B;MAEI,MAAM,yBAAqB,OAArB,C;K;IAGV,sB;MAEI,MAAM,uBAAmB,cAAnB,C;K;IAGV,2
B;MAEI,MAAM,6BAAsB,OAAtB,C;K;IAGV,iC;MAEI,MAAM,4CAAqC,uBAAqB,YAArB,8BAArC,C;K;IClBV
,8B;MC8CW,kB1GqBiD,oB;M0GM9C,Q;MAAA,OAAK,0B;MAAf,OAAU,cAAV,C;QAAU,mB;QACN,UAAU,s
BAAM,CAAN,C;QACV,kBAAkB,sBAAY,GAAZ,C;QAkFiD,U;QAjFnE,W1GuKJ,a0GvKgB,G1GuKhB,EyG1Oo
B,CCmEkC,uBAAuB,CAAC,WAAY,mBAAY,GAAZ,CAiFhD,GDpJrC,CCoJqC,GAA6B,UAjFjC,WAiFiC,6DDp
JnD,IAAM,CAAN,IzG0OpB,C;;MyG1OA,OCqEO,W;K;;;;ICjCX,qB;MAK0B,Q;MADtB,UAAmB,E;MACnB,wB

AAsB,KAAtB,gB;QAAsB,aAAA,KAAtB,M;QAAK,IAAC,0BAAD,EAAO,2B;QACR,IAAI,IAAJ,IAAY,K;;MAE
hB,OAAO,G;K;IAGX,+B;MAMgB,Q;MADZ,WAA0B,MAAa,MAAK,KAAL,C;MACvC,wBAAY,IAAZ,gB;QAA
Y,UAAA,IAAZ,M;QACI,IAAU,KAAY,gBAAe,GAAf,CAAtB,C;UACI,UAAK,GAAL,IAAY,MAAM,GAAN,C;;
MAGpB,OAAO,S;K;qEC5DX,yB;MAAA,iB;MAAA,oB;QAOkD,OAAA,MAAW,KAAI,CAAJ,C;O;KAP7D,C;qE
ASA,yB;MAAA,iB;MAAA,oB;QAOkD,OAAA,MAAW,KAAI,CAAJ,C;O;KAP7D,C;qEASA,yB;MAAA,iB;MA
AA,oB;QAOkD,OAAA,MAAW,KAAI,CAAJ,C;O;KAP7D,C;uEASA,yB;MAAA,iB;MAAA,oB;QASmD,OAAA,
MAAW,MAAK,CAAL,C;O;KAT9D,C;uEAWA,yB;MAAA,iB;MAAA,oB;QASmD,OAAA,MAAW,MAAK,CAA
L,C;O;KAT9D,C;uEAWA,yB;MAAA,iB;MAAA,oB;QASmD,OAAA,MAAW,MAAK,CAAL,C;O;KAT9D,C;yEA
WA,yB;MAAA,iB;MAAA,uB;QAkB+D,OAAA,MAAW,OAAM,CAAN,EAAS,CAAT,C;O;KAlB1E,C;uEAoBA,y
B;MAAA,iB;MAAA,oB;QAUmD,OAAA,MAAW,MAAK,CAAL,C;O;KAV9D,C;uEAYA,yB;MAAA,iB;MAAA,
oB;QASmD,OAAA,MAAW,MAAK,CAAL,C;O;KAT9D,C;uEAWA,yB;MAAA,iB;MAAA,oB;QAUmD,OAAA,
MAAW,MAAK,CAAL,C;O;KAV9D,C;yEAYA,yB;MAAA,iB;MAAA,oB;QAYoD,OAAA,MAAW,OAAM,CAA
N,C;O;KAZ/D,C;yEAcA,yB;MAAA,iB;MAAA,oB;QAYoD,OAAA,MAAW,OAAM,CAAN,C;O;KAZ/D,C;yEAc
A,yB;MAAA,iB;MAAA,oB;QAaoD,OAAA,MAAW,OAAM,CAAN,C;O;KAb/D,C;yEAeA,yB;MAAA,iB;MAAA,
uB;QAS+D,OAAA,MAAW,OAAM,CAAN,EAAS,CAAT,C;O;KAT1E,C;uEAWA,yB;MAAA,iB;MAAA,oB;QA
QmD,OAAA,MAAW,MAAK,CAAL,C;O;KAR9D,C;qEAUA,yB;MAAA,iB;MAAA,oB;QAUkD,OAAA,MAAW,
KAAI,CAAJ,C;O;KAV7D,C;yEAYA,yB;MAAA,iB;MAAA,oB;QAcoD,OAAA,MAAW,OAAM,CAAN,C;O;KAd
/D,C;IAgBA,sB;MAcI,IAAI,QAAQ,GAAR,IAAe,SAAQ,GAA3B,C;QAAgC,OAAO,wCAAO,I;MAC9C,OAAO,I
AAW,KAAI,CAAJ,CAAX,GAAoB,IAAW,KAAI,IAAJ,C;K;mEAG1C,yB;MAAA,iB;MAAA,oB;QAWiD,OAAA,
MAAW,KAAI,CAAJ,C;O;KAX5D,C;yEAaA,yB;MAAA,iB;MAAA,oB;QAOoD,OAAA,MAAW,OAAM,CAAN,
C;O;KAP/D,C;uEASA,yB;MAAA,iB;MAAA,oB;QAOmD,OAAA,MAAW,MAAK,CAAL,C;O;KAP9D,C;uEASA
,yB;MAAA,iB;MAAA,oB;QAgBmD,OAAA,MAAW,OAAM,CAAN,C;O;KAhB9D,C;uEAkBA,yB;MAAA,iB;M
AAA,oB;QAUmD,OAAA,MAAW,MAAK,CAAL,C;O;KAV9D,C;yEAYA,yB;MAAA,iB;MAAA,oB;QAUoD,OA
AA,MAAW,OAAM,CAAN,C;O;KAV/D,C;+EAYA,yB;MAAA,iB;MAAA,oB;QAUuD,OAAA,MAAW,OAAM,C
AAN,C;O;KAVlE,C;IAYA,kB;MAQI,IAAI,IAAI,GAAJ,KAAW,GAAf,C;QACI,OAAO,IAAW,OAAM,CAAN,C;O;
OAEtB,YAzBgD,MAAW,OAAyBzC,CAAzByC,C;MA0B3D,OAAW,QAAQ,CAAR,KAAa,GAAxB,B,GAA6B,KAA7B
,GAAtC+C,MAAW,MAAsCb,CAAtCa,C;K;qEAyC9D,yB;MAAA,iB;MAAA,oB;QAUkD,OAAA,MAAW,KAAI
,C;O;KAV7D,C;uEAYA,yB;MAAA,iB;MAAA,oB;QAWmD,OAAA,MAAW,MAAK,CAAL,C;O;KAX9D,C;wEA
cA,yB;MAAA,iB;MAAA,uB;QAO6D,OAAA,MAAW,KAAI,CAAJ,EAAO,CAAP,C;O;KAPxE,C;wEASA,yB;MA
AA,iB;MAAA,uB;QAO6D,OAAA,MAAW,KAAI,CAAJ,EAAO,CAAP,C;O;KAPxE,C;qEAWA,yB;MAAA,iB;M
AAA,+B;QAayD,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,EAAkB,CAAlB,C;O;KAbpE,C;uEAeA,yB;MAAA,iB;MAAA,+B;Q
AOsD,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,EAAkB,CAAlB,C;O;KAPjE,C;iGAmBsD,yB;MAAA,iB;MAAA,4B;QAAQ,OA
AA,MAAW,KAAI,SAAJ,C;O;KAAnB,C;+B;QAAuB,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtC,C;+
B;QAAuC,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtD,C;+B;QAAuE,OAAA,MAAW,KAAI,SAAJ,EAAe,
CAAf,C;O;KAAtF,C;+B;QAAuG,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtH,C;+B;QAAuI,OAAA,
MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtJ,C;+B;QAAuK,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtL,
C;+B;QAAuM,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtN,C;+B;QAAuO,OAAA,MAAW,KAAI,SAAJ,EA
Ae,CAAf,C;O;KAAtP,C;+B;QAAuQ,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtR,C;+B;QAAuS,OAA
A,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtT,C;+B;QAAuU,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KA
AtV,C;+B;QAAuW,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtX,C;+B;QAAuY,OAAA,MAAW,KAAI,SA
AJ,EAAe,CAAf,C;O;KAAtZ,C;+B;QAAua,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtb,C;+B;QAAuc,
OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtd,C;+B;QAAue,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;
KAAtf,C;+B;QAAug,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAth,C;+B;QAAui,OAAA,MAAW,KAAI,SA
AJ,EAAe,CAAf,C;O;KAAtj,C;+B;QAAuk,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtl,C;+B;QAAum,
OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtn,C;+B;QAAuo,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;
KAAtp,C;+B;QAAuq,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtr,C;+B;QAAus,OAAA,MAAW,KAAI,SA
AJ,EAAe,CAAf,C;O;KAAtt,C;+B;QAAuu,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtv,C;+B;QAAuw,
OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtx,C;+B;QAAuy,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;
KAAtz,C;+B;QAAu0,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAt1,C;+B;QAAu2,OAAA,MAAW,KAAI,SA
AJ,EAAe,CAAf,C;O;KAAt3,C;+B;QAAu4,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAt5,C;+B;QAAu6,
OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAt7,C;+B;QAAu8,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;
KAAt9,C;+B;QAAu+,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAt/,C;+B;QAAugB,OAAA,MAAW,KAAI,SA
AJ,EAAe,CAAf,C;O;KAAthB,C;+B;QAAuiB,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtjB,C;+B;QAAuk
B,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtlB,C;+B;QAAumB,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,
C;O;KAAtnB,C;+B;QAAuoB,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtpB,C;+B;QAAuqB,OAAA,MAAW,
KAAI,SAAJ,EAAe,CAAf,C;O;KAAtrB,C;+B;QAAusB,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAttB,C;+
B;QAAuuB,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtvB,C;+B;QAAuwB,OAAA,MAAW,KAAI,SAAJ,EAA
e,CAAf,C;O;KAAtxB,C;+B;QAAuyB,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtzB,C;+B;QAAu0B,OA
A,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAt1B,C;+B;QAAu2B,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;
KAAt3B,C;+B;QAAu4B,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAt5B,C;+B;QAAu6B,OAAA,MAAW,KAAI,
SAAJ,EAAe,CAAf,C;O;KAAt7B,C;+B;QAAu8B,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAt9B,C;+B;QA
Au+B,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAt/B,C;+B;QAAugC,OAAA,MAAW,KAAI,SAAJ,EAAe,C
AAf,C;O;KAAthC,C;+B;QAAuiC,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtjC,C;+B;QAAukC,OAAA,
MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtlC,C;+B;QAAumC,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KA
AtnC,C;+B;QAAuoC,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtpC,C;+B;QAAuqC,OAAA,MAAW,KAAI,
SAAJ,EAAe,CAAf,C;O;KAAtrC,C;+B;QAAusC,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAttC,C;+B;QA
Au+C,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAt/C,C;+B;QAAugD,OAAA,MAAW,KAAI,SAAJ,EAAe,C
AAf,C;O;KAAthD,C;+B;QAAuiD,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtjD,C;+B;QAAukD,OAAA,
MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtlD,C;+B;QAAumD,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KA
AtnD,C;+B;QAAuoD,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtpD,C;+B;QAAuqD,OAAA,MAAW,KAAI,
SAAJ,EAAe,CAAf,C;O;KAAtrD,C;+B;QAAusD,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAttD,C;+B;QA
Au+D,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAt/D,C;+B;QAAugE,OAAA,MAAW,KAAI,SAAJ,EAAe,C
AAf,C;O;KAAthE,C;+B;QAAuiE,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtjE,C;+B;QAAukE,OAAA,
MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtlE,C;+B;QAAumE,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KA
AtnE,C;+B;QAAuoE,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtpE,C;+B;QAAuqE,OAAA,MAAW,KAAI,
SAAJ,EAAe,CAAf,C;O;KAAtrE,C;+B;QAAusE,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAttE,C;+B;QA
Au+E,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAt/E,C;+B;QAAugF,OAAA,MAAW,KAAI,SAAJ,EAAe,C
AAf,C;O;KAAthF,C;+B;QAAuiF,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtjF,C;+B;QAAukF,OAAA,
MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtlF,C;+B;QAAumF,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KA
AtnF,C;+B;QAAuoF,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtpF,C;+B;QAAuqF,OAAA,MAAW,KAAI,
SAAJ,EAAe,CAAf,C;O;KAAtrF,C;+B;QAAusF,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAttF,C;+B;QA
Au+F,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAt/F,C;+B;QAAugG,OAAA,MAAW,KAAI,SAAJ,EAAe,C
AAf,C;O;KAAthG,C;+B;QAAuiG,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtjG,C;+B;QAAukG,OAAA,
MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtlG,C;+B;QAAumG,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KA
AtnG,C;+B;QAAuoG,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtpG,C;+B;QAAuqG,OAAA,MAAW,KAAI,
SAAJ,EAAe,CAAf,C;O;KAAtrG,C;+B;QAAusG,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAttG,C;+B;QA
Au+G,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAt/G,C;+B;QAAugH,OAAA,MAAW,KAAI,SAAJ,EAAe,C
AAf,C;O;KAAthH,C;+B;QAAuiH,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtjH,C;+B;QAAukH,OAAA,
MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtlH,C;+B;QAAumH,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KA
AtnH,C;+B;QAAuoH,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtpH,C;+B;QAAuqH,OAAA,MAAW,KAAI,
SAAJ,EAAe,CAAf,C;O;KAAtrH,C;+B;QAAusH,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAttH,C;+B;QA
Au+H,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAt/H,C;+B;QAAugI,OAAA,MAAW,KAAI,SAAJ,EAAe,C
AAf,C;O;KAAthI,C;+B;QAAuiI,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtjI,C;+B;QAAukI,OAAA,
MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtlI,C;+B;QAAumI,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KA
AtnI,C;+B;QAAuoI,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtpI,C;+B;QAAuqI,OAAA,MAAW,KAAI,
SAAJ,EAAe,CAAf,C;O;KAAtrI,C;+B;QAAusI,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAttI,C;+B;QA
Au+I,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAt/I,C;+B;QAAugJ,OAAA,MAAW,KAAI,SAAJ,EAAe,C
AAf,C;O;KAAthJ,C;+B;QAAuiJ,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtjJ,C;+B;QAAukJ,OAAA,
MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtlJ,C;+B;QAAumJ,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KA
AtnJ,C;+B;QAAuoJ,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtpJ,C;+B;QAAuqJ,OAAA,MAAW,KAAI,
SAAJ,EAAe,CAAf,C;O;KAAtrJ,C;+B;QAAusJ,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAttJ,C;+B;QA
Au+J,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAt/J,C;+B;QAAugK,OAAA,MAAW,KAAI,SAAJ,EAAe,C
AAf,C;O;KAAthK,C;+B;QAAuiK,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtjK,C;+B;QAAukK,OAAA,
MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtlK,C;+B;QAAumK,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KA
AtnK,C;+B;QAAuoK,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtpK,C;+B;QAAuqK,OAAA,MAAW,KAAI,
SAAJ,EAAe,CAAf,C;O;KAAtrK,C;+B;QAAusK,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAttK,C;+B;QA
Au+K,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAt/K,C;+B;QAAugL,OAAA,MAAW,KAAI,SAAJ,EAAe,C
AAf,C;O;KAAthL,C;+B;QAAuiL,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtjL,C;+B;QAAukL,OAAA,
MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtlL,C;+B;QAAumL,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KA
AtnL,C;+B;QAAuoL,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtpL,C;+B;QAAuqL,OAAA,MAAW,KAAI,
SAAJ,EAAe,CAAf,C;O;KAAtrL,C;+B;QAAusL,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAttL,C;+B;QA
Au+L,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAt/L,C;+B;QAAugM,OAAA,MAAW,KAAI,SAAJ,EAAe,C
AAf,C;O;KAAthM,C;+B;QAAuiM,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtjM,C;+B;QAAukM,OAAA,
MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtlM,C;+B;QAAumM,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KA
AtnM,C;+B;QAAuoM,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtpM,C;+B;QAAuqM,OAAA,MAAW,KAAI,
SAAJ,EAAe,CAAf,C;O;KAAtrM,C;+B;QAAusM,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAttM,C;+B;QA
Au+M,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAt/M,C;+B;QAAugN,OAAA,MAAW,KAAI,SAAJ,EAAe,C
AAf,C;O;KAAthN,C;+B;QAAuiN,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtjN,C;+B;QAAukN,OAAA,
MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtlN,C;+B;QAAumN,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KA
AtnN,C;+B;QAAuoN,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtpN,C;+B;QAAuqN,OAAA,MAAW,KAAI,
SAAJ,EAAe,CAAf,C;O;KAAtrN,C;+B;QAAusN,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAttN,C;+B;QA
Au+N,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAt/N,C;+B;QAAugO,OAAA,MAAW,KAAI,SAAJ,EAAe,C
AAf,C;O;KAAthO,C;+B;QAAuiO,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtjO,C;+B;QAAukO,OAAA,
MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtlO,C;+B;QAAumO,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KA
AtnO,C;+B;QAAuoO,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtpO,C;+B;QAAuqO,OAAA,MAAW,KAAI,
SAAJ,EAAe,CAAf,C;O;KAAtrO,C;+B;QAAusO,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAttO,C;+B;QA
Au+O,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAt/O,C;+B;QAAugP,OAAA,MAAW,KAAI,SAAJ,EAAe,C
AAf,C;O;KAAthP,C;+B;QAAuiP,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtjP,C;+B;QAAukP,OAAA,
MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtlP,C;+B;QAAumP,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KA
AtnP,C;+B;QAAuoP,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtpP,C;+B;QAAuqP,OAAA,MAAW,KAAI,
SAAJ,EAAe,CAAf,C;O;KAAtrP,C;+B;QAAusP,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAttP,C;+B;QA
Au+P,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAt/P,C;+B;QAAugQ,OAAA,MAAW,KAAI,SAAJ,EAAe,C
AAf,C;O;KAAthQ,C;+B;QAAuiQ,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtjQ,C;+B;QAAukQ,OAAA,
MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtlQ,C;+B;QAAumQ,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KA
AtnQ,C;+B;QAAuoQ,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtpQ,C;+B;QAAuqQ,OAAA,MAAW,KAAI,
SAAJ,EAAe,CAAf,C;O;KAAtrQ,C;+B;QAAusQ,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAttQ,C;+B;QA
Au+Q,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAt/Q,C;+B;QAAugR,OAAA,MAAW,KAAI,SAAJ,EAAe,C
AAf,C;O;KAAthR,C;+B;QAAuiR,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtjR,C;+B;QAAukR,OAAA,
MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtlR,C;+B;QAAumR,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KA
AtnR,C;+B;QAAuoR,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtpR,C;+B;QAAuqR,OAAA,MAAW,KAAI,
SAAJ,EAAe,CAAf,C;O;KAAtrR,C;+B;QAAusR,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAttR,C;+B;QA
Au+R,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAt/R,C;+B;QAAugS,OAAA,MAAW,KAAI,SAAJ,EAAe,C
AAf,C;O;KAAthS,C;+B;QAAuiS,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtjS,C;+B;QAAukS,OAAA,
MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtlS,C;+B;QAAumS,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KA
AtnS,C;+B;QAAuoS,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtpS,C;+B;QAAuqS,OAAA,MAAW,KAAI,
SAAJ,EAAe,CAAf,C;O;KAAtrS,C;+B;QAAusS,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAttS,C;+B;QA
Au+S,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAt/S,C;+B;QAAugT,OAAA,MAAW,KAAI,SAAJ,EAAe,C
AAf,C;O;KAAthT,C;+B;QAAuiT,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtjT,C;+B;QAAukT,OAAA,
MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtlT,C;+B;QAAumT,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KA
AtnT,C;+B;QAAuoT,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtpT,C;+B;QAAuqT,OAAA,MAAW,KAAI,
SAAJ,EAAe,CAAf,C;O;KAAtrT,C;+B;QAAusT,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAttT,C;+B;QA
Au+T,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAt/T,C;+B;QAAugU,OAAA,MAAW,KAAI,SAAJ,EAAe,C
AAf,C;O;KAAthU,C;+B;QAAuiU,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtjU,C;+B;QAAukU,OAAA,
MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtlU,C;+B;QAAumU,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KA
AtnU,C;+B;QAAuoU,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtpU,C;+B;QAAuqU,OAAA,MAAW,KAAI,
SAAJ,EAAe,CAAf,C;O;KAAtrU,C;+B;QAAusU,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAttU,C;+B;QA
Au+U,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAt/U,C;+B;QAAugV,OAAA,MAAW,KAAI,SAAJ,EAAe,C
AAf,C;O;KAAthV,C;+B;QAAuiV,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtjV,C;+B;QAAukV,OAAA,
MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtlV,C;+B;QAAumV,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KA
AtnV,C;+B;QAAuoV,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtpV,C;+B;QAAuqV,OAAA,MAAW,KAAI,
SAAJ,EAAe,CAAf,C;O;KAAtrV,C;+B;QAAusV,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAttV,C;+B;QA
Au+V,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAt/V,C;+B;QAAugW,OAAA,MAAW,KAAI,SAAJ,EAAe,C
AAf,C;O;KAAthW,C;+B;QAAuiW,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtjW,C;+B;QAAukW,OAAA,
MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtlW,C;+B;QAAumW,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KA
AtnW,C;+B;QAAuoW,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtpW,C;+B;QAAuqW,OAAA,MAAW,KAAI,
SAAJ,EAAe,CAAf,C;O;KAAtrW,C;+B;QAAusW,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAttW,C;+B;QA
Au+W,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAt/W,C;+B;QAAugX,OAAA,MAAW,KAAI,SAAJ,EAAe,C
AAf,C;O;KAAthX,C;+B;QAAuiX,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtjX,C;+B;QAAukX,OAAA,
MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtlX,C;+B;QAAumX,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KA
AtnX,C;+B;QAAuoX,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtpX,C;+B;QAAuqX,OAAA,MAAW,KAAI,
SAAJ,EAAe,CAAf,C;O;KAAtrX,C;+B;QAAusX,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAttX,C;+B;QA
Au+X,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAt/X,C;+B;QAAugY,OAAA,MAAW,KAAI,SAAJ,EAAe,C
AAf,C;O;KAAthY,C;+B;QAAuiY,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtjY,C;+B;QAAukY,OAAA,
MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtlY,C;+B;QAAumY,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KA
AtnY,C;+B;QAAuoY,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtpY,C;+B;QAAuqY,OAAA,MAAW,KAAI,
SAAJ,EAAe,CAAf,C;O;KAAtrY,C;+B;QAAusY,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAttY,C;+B;QA
Au+Y,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAt/Y,C;+B;QAAugZ,OAAA,MAAW,KAAI,SAAJ,EAAe,C
AAf,C;O;KAAthZ,C;+B;QAAuiZ,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtjZ,C;+B;QAAukZ,OAAA,
MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtlZ,C;+B;QAAumZ,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KA
AtnZ,C;+B;QAAuoZ,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtpZ,C;+B;QAAuqZ,OAAA,MAAW,KAAI,
SAAJ,EAAe,CAAf,C;O;KAAtrZ,C;+B;QAAusZ,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAttZ,C;+B;QA
Au+Z,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAt/Z,C;+B;QAAugaA,OAAA,MAAW,KAAI,SAAJ,EAAe,C
AAf,C;O;KAAthaA,C;+B;QAAuiaA,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtjaA,C;+B;QAAukaA,OAA
A,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtlaA,C;+B;QAAumaA,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;
KAAtnaA,C;+B;QAAuoaA,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAtpaA,C;+B;QAAuqaA,OAAA,MAAW,
KAAI,SAAJ,EAAe,CAAf,C;O;KAAtraA,C;+B;QAAusaA,OAAA,MAAW,KAAI,SAAJ,EAAe,CAAf,C;O;KAAttaA,C;+
B;QAAuuaA,

MAA6B,KAAZ,CAAY,C;O;KAP7E,C;uEASA,yB;MAAA,iB;MAAA,oB;QAOgD,OAAA,MAA6B,KAAZ,CAAY
,C;O;KAP7E,C;uEASA,yB;MAAA,iB;MAAA,oB;QAOgD,OAAA,MAA6B,KAAZ,CAAY,C;O;KAP7E,C;yEASA
,yB;MAAA,iB;MAAA,oB;QASiD,OAAA,MAA8B,MAAZ,CAAY,C;O;KAT/E,C;yEAWA,yB;MAAA,iB;MAAA,
oB;QASiD,OAAA,MAA8B,MAAZ,CAAY,C;O;KAT/E,C;yEAWA,yB;MAAA,iB;MAAA,oB;QASiD,OAAA,MA
A8B,MAAZ,CAAY,C;O;KAT/E,C;2EAWA,yB;MAAA,iB;MAAA,uB;QAkB4D,OAAA,MAA6C,OAA1B,CAA0
B,EAAZ,CAAY,C;O;KAlBzG,C;yEAoBA,yB;MAAA,iB;MAAA,oB;QAUiD,OAAA,MAA8B,MAAZ,CAAY,C;O
;KAV/E,C;yEAYA,yB;MAAA,iB;MAAA,oB;QASiD,OAAA,MAA8B,MAAZ,CAAY,C;O;KAT/E,C;yEAWA,yB;
MAAA,iB;MAAA,oB;QAUiD,OAAA,MAA8B,MAAZ,CAAY,C;O;KAV/E,C;2EAYA,yB;MAAA,iB;MAAA,oB;
QAYkD,OAAA,MAA+B,OAAZ,CAAY,C;O;KAZjF,C;2EAcA,yB;MAAA,iB;MAAA,oB;QAYkD,OAAA,MAA+
B,OAAZ,CAAY,C;O;KAZjF,C;2EAcA,yB;MAAA,iB;MAAA,oB;QAakD,OAAA,MAA+B,OAAZ,CAAY,C;O;K
AbjF,C;2EAeA,yB;MAAA,iB;MAAA,uB;QAS4D,OAAA,MAA6C,OAA1B,CAA0B,EAAZ,CAAY,C;O;KATzG,C
;yEAWA,yB;MAAA,iB;MAAA,oB;QAQiD,OAAA,MAA8B,MAAZ,CAAY,C;O;KAR/E,C;uEAUA,yB;MAAA,iB
;MAAA,oB;QAUgD,OAAA,MAA6B,KAAZ,CAAY,C;O;KAV7E,C;2EAYA,yB;MAAA,iB;MAAA,oB;QAckD,O
AAA,MAA+B,OAAZ,CAAY,C;O;KAdjF,C;uEAgBA,yB;MAAA,mC;MAAA,0B;QAc6D,OAAmC,IAA7B,CAA6
B,EAAZ,IAAY,C;O;KAdhG,C;qEAgBA,yB;MAAA,iB;MAAA,oB;QAW+C,OAAA,MAA6B,KAAZ,CAAY,C;O;
KAX5E,C;2EAaA,yB;MAAA,iB;MAAA,oB;QAOkD,OAAA,MAA+B,OAAZ,CAAY,C;O;KAPjF,C;yEASA,yB;
MAAA,iB;MAAA,oB;QAOiD,OAAA,MAA8B,MAAZ,CAAY,C;O;KAP/E,C;yEASA,yB;MAAA,iB;MAAA,oB;Q
AgBiD,OAAA,MAA+B,OAAZ,CAAY,C;O;KAhBhF,C;yEAkBA,yB;MAAA,iB;MAAA,oB;QAUiD,OAAA,MAA
8B,MAAZ,CAAY,C;O;KAV/E,C;2EAYA,yB;MAAA,iB;MAAA,oB;QAUkD,OAAA,MAA+B,OAAZ,CAAY,C;O;
KAVjF,C;iFAYA,yB;MA3gBA,iB;MA2gBA,oB;QAUqD,OA3gBE,MAAW,OA2gBF,CA3gBE,C;O;KAigBlE,C;2
EAYA,yB;MAAA,uC;MAAA,oB;QAQkD,OAAoB,MAAZ,CAAY,C;O;KARtE,C;uEAWA,yB;MAAA,iB;MAAA,
oB;QAUgD,OAAA,MAA6B,KAAZ,CAAY,C;O;KAV7E,C;yEAYA,yB;MAAA,iB;MAAA,oB;QAWiD,OAAA,M
AA8B,MAAZ,CAAY,C;O;KAX/E,C;wEAeA,yB;MAAA,iB;MAAA,uB;QAO0D,OAAA,MAAW,KAAI,CAAJ,EA
AO,CAAP,C;O;KAPrE,C;wEASA,yB;MAAA,iB;MAAA,uB;QAO0D,OAAA,MAAW,KAAI,CAAJ,EAAO,CAAP,
C;O;KAPrE,C;sEAYA,yB;MAAA,iB;MAAA,+B;QAasD,OAAA,MAA8C,KAA1B,SAA0B,EAAZ,CAAY,C;O;K
AbpG,C;uEAeA,yB;MAAA,iB;MAAA,+B;QAOoD,OAAA,MAA8C,KAA1B,SAA0B,EAAZ,CAAY,C;O;KAPlG,
C;kGAmBoD,yB;MAAA,iB;MAAA,4B;QAAQ,OAAA,MAAgC,KAAZ,SAAY,C;O;KAAxC,C;gFAaT,yB;MAAA
,iB;MAAA,4B;QAAQ,OAAA,MAAiC,MAAZ,SAAY,C;O;KAAzC,C;gFAE3C,yB;MAAA,6C;MAAA,kC;QAO8D
,OAA0C,SAArC,SAAqC,EAAZ,IAAY,C;O;KAPxG,C;iFASA,yB;MAAA,6C;MAAA,kC;QAK4D,OAA0C,SAArC
,SAAqC,EAAZ,IAAY,C;O;KALtG,C;oFAQA,yB;MAAA,iD;MAAA,4B;QAYmD,OAAW,WAAX,SAAW,C;O;K
AZ9D,C;sFAcA,yB;MAAA,mD;MAAA,4B;QAYqD,OAAW,YAAX,SAAW,C;O;KAZhE,C;IAoBA,kB;MAUqC,
OAAI,IAAI,CAAR,GAAY,CAAC,CAAD,OAAM,CAAlB,GAA0B,C;K;wEAE/D,yB;MAAA,iB;MAAA,uB;QAK
oD,OAAA,MAAW,KAAI,CAAJ,EAAO,CAAP,C;O;KAL/D,C;wEAOA,yB;MAAA,iB;MAAA,uB;QAKoD,OAAA
,MAAW,KAAI,CAAJ,EAAO,CAAP,C;O;KAL/D,C;mGAiBgD,yB;MAAA,mC;MAAA,4B;QAAQ,WAAI,SAAJ,C
;O;KAAR,C;IAShB,+B;MAC5B,gBAAO,CAAP,C;QADoC,OACxB,E;WACZ,gBAAO,CAAP,C;QAFoC,OAExB,
C;;QAFwB,OAG5B,C;K;IAKZ,kB;MASuC,OAAI,eAAI,CAAR,GAAY,CAAD,aAAX,GAAmB,C;K;wEAE1D,gB;
MAKuD,OAAI,kBAAK,CAAL,MAAJ,GAAY,CAAZ,GAAmB,C;K;wEAE1E,gB;MAKuD,OAAI,kBAAK,CAAL,
MAAJ,GAAY,CAAZ,GAAmB,C;K;mGAYxB,yB;MAAA,mC;MAAA,4B;QAAQ,WAAI,SAAJ,C;O;KAAR,C;IA
SjB,+B;MAC7B,2BAAO,CAAP,C;QADqC,OACzB,E;WACZ,2BAAO,CAAP,C;QAFqC,OAEzB,C;;QAFyB,OAG
7B,C;K;IC1kCZ,4B;MAI4C,qBAAQ,S;K;IAEpD,4B;MAI2C,qBAAQ,S;K;IAEnD,+B;MAGiD,qBAAQ,wCAAO,k
BAAf,IAAoC,cAAQ,wCAAO,kB;K;IAEpG,iC;MAGgD,qBAAQ,uCAAM,kBAAd,IAAmC,cAAQ,uCAAM,kB;K;I
AEjG,6B;MAG+C,QAAC,qBAAD,IAAiB,CAAC,kB;K;IAEjE,+B;MAG8C,QAAC,uBAAD,IAAiB,CAAC,kB;K;I
AGhE,iC;MAOI,QAAQ,S;MACR,IAAI,CAAC,IAAM,UAAP,KAAsB,CAAE,KAAK,CAAP,GAAc,UAApC,K;M
ACJ,IAAI,CAAC,IAAM,SAAP,KAAsB,CAAE,KAAK,CAAP,GAAc,SAApC,K;MACJ,IAAI,CAAC,IAAM,SAAP
,KAAsB,CAAE,KAAK,CAAP,GAAc,SAApC,K;MACJ,IAAI,CAAC,IAAM,QAAP,KAAsB,CAAE,KAAK,CAAP,
GAAc,QAApC,K;MACJ,IAAI,CAAC,IAAM,KAAP,KAAsB,CAAE,KAAK,EAA7B,K;MACJ,OAAO,C;K;kGAG
X,yB;MAAA,iB;MAAA,4B;QAM2D,OAAA,MAAO,OAAM,SAAN,C;O;KANlE,C;IAQA,0C;MAOI,YATuD,MA
AO,OAS9B,EAAf,aAAQ,CAAC,SAAD,IAAR,CAAe,CAT8B,CAS9D,I;K;IAEJ,sC;MAOI,OAAI,cAAQ,CAAZ,G

AAe,CAAf,GAAsB,CAAE,IAAI,EAAJ,GAlB+B,MAAO,iB;K;IAoBlE,qC;MAQI,oBAAS,CAAC,SAAD,IAAT,C;
K;IAEJ,yC;MAaI,oBAAI,QAAJ,GAAiB,cAAK,EAAL,GAAqB,Q;K;IAG1C,0C;MAaI,oBAAI,EAAJ,GAAoB,QA
ApB,GAAiC,cAAK,Q;K;IAG1C,mC;MAMI,OAAK,ajDhEmD,uBiDgEnD,CAAL,GAA0B,ajDjE6B,sBiDiE7B,CA
A1B,I;K;IAEJ,2C;MAMU,WAAW,SjDxEuC,c;MiDyEpD,e;QADJ,OACS,KA7E8C,MAAO,OjDGP,sBiDHO,CA6
ErD,I;;QADT,OA5EuD,MAAO,OA8ElD,IA9EkD,C;;K;IAiFlE,4C;MAMU,UAAU,SjDpFuC,a;MiDqFnD,c;QADJ,
OACS,KAAqB,sBjDpF0B,uBiDoF1B,CAArB,I;;QADT,OAEgB,sBAAJ,GAAI,C;K;IAGpB,wC;MAOU,WAAW,S
jD/FuC,c;MiDgGpD,e;QAAK,UAAS,kBjDjGqC,sBiDiGrC,C;QADlB,OjDjG4C,MAAa,KAAK,UAAS,GAAT,EiD
kGvB,CjDlGuB,C;;QiDmGlD,aAAa,kBAAL,IAAK,C;QAFzB,OjDjG4C,MAAa,KAAK,UiDmG7C,CjDnG6C,EA
Ac,MAAd,C;;K;IiDsGlE,uC;MAOU,UAAU,SjD5GuC,a;MiD6GnD,c;QAAK,WAAa,iBjD5GkC,uBiD4GlC,C;QA
DtB,OjD7G4C,MAAa,KAAK,UiD8GhD,CjD9GgD,EAAc,IAAd,C;;QiD+GlD,YAAS,iBAAJ,GAAI,C;QAFrB,OjD
7G4C,MAAa,KAAK,UAAS,KAAT,EiD+GrB,CjD/GqB,C;;K;IiDkHlE,2C;MAaI,IAAI,CAAC,WAAa,EAAd,MAA
qB,CAAzB,C;QACI,UAAU,SjD/HyC,a;QiDgInD,WAAW,SjD/HyC,c;QiDgIpD,aAAa,GAAI,IAAI,QAAR,GAAqB
,IAAK,MAAK,CAAC,QAAD,IAAL,C;QACvC,cAAc,IAAK,IAAI,QAAT,GAAsB,GAAI,MAAK,CAAC,QAAD,I
AAL,C;QACxC,OAAW,CAAC,WAAa,EAAd,MAAqB,CAAhC,GjDpIwC,MAAa,KAAK,UiDoIlB,MjDpIkB,EiDo
IV,OjDpIU,CiDoI1D,GjDpIwC,MAAa,KAAK,UiDoIS,OjDpIT,EiDoIkB,MjDpIlB,C;;QiDsInD,Q;QAAA,IAAI,CA
AC,WAAa,EAAd,MAAqB,CAAzB,C;UAAA,OAA4B,S;;uBjDpIiB,uB;UiDoIP,ajDrIM,sB;UiDqI5C,OjDtIiC,MA
Aa,KAAK,kBAAc,MAAd,C;;QiDsI1D,W;;K;kFAKR,yB;MAAA,4C;MAAA,sC;QAaiE,6BAAW,CAAC,QAAD,I
AAX,C,C;O;KAbjE,C;qECzKA,kC;MAII,OAAO,SAA8B,MAAK,WAAL,C;K;uEAGzC,8C;MAII,OAAO,SAA8B,M
AAK,WAAL,EAAkB,UAAlB,C;K;ICpCzC,iC;MACI,gBAAH,IAAI,OAAO,EAAG,GAAE,IAAI,IAAI,CAAC,CA
AD,EAAI,EAAJ,CAAd,GAAyB,CAAhC,C;K;;;IAKJ,sC;MACI,cAAO,QAAP,GAAkB,QAAQ,Q;K;ICP9B,yC;K;;I
AWA,+B;K;;4GAYA,yB;MAAA,gC;MAAA,yD;MAAA,sC;QAQI,OAAK,qBAAL,SAAK,iB;O;KART,C;ICPI,2B;
MAAS,Q;MAAD,OAAwB,CAAvB,iEAAuB,Q;K;IAMhC,+B;MAAQ,iBAAU,SAAV,C;K;;;;;;ICtB+B,4B;MACv
C,8B;K;gEAAA,Y;MAAA,4B;K;2FAII,Y;MxGO4B,MAAM,yB;K;kCwGLtC,iB;MACI,OAAO,oCAA0B,oBAAU,
KAAM,OAAhB,C;K;oCAGrC,Y;MAC+B,gB;MAAA,8FAA0B,C;K;oCAEzD,Y;MAEI,OAAO,oBAAQ,eAAR,C;
K;;IAIyB,kC;MAAuB,sBAAc,MAAd,C;MACL,Q;MAAtD,4BAAmC,CAAmB,OAAZ,MAAY,WAAnB,kC;K;8FA
AnC,Y;MAAA,gC;K;oDAEA,iB;MACW,cAAgB,W;MAAvB,OhEoEuD,MAAa,QgEpEpD,KhEoEoD,EAAY,OA
AZ,C;K;;IgEhEjC,0E;MAIvC,sBAAc,MAAd,C;MAFA,wC;MACA,8C;K;2CAEA,iB;MACI,IAAI,0CAAJ,C;QAAs
C,OAAO,K;MAC7C,OAAa,uCAAO,KAAP,CAAN,IAAuB,+BAAmB,KAAM,kBAAzB,C;K;iGAGD,Y;MAAQ,6
B;K;uDAEzC,iB;MACI,OAAO,0BAAmB,KAAnB,C;K;;IAIf,6B;MAAA,iC;MAAoC,sBAAoB,MAApB,C;MACh
C,4BAAkC,S;K;+FAAlC,Y;MAAA,gC;K;qDAEA,iB;MAAgD,Y;K;2FAG5C,Y;MAAQ,MAAM,qCAA8B,6CAA9
B,C;K;yCAElB,iB;MAA4C,iBAAU,I;K;2CAEtD,Y;MAA+B,Q;K;;;IAVnC,yC;MAAA,wC;QAAA,uB;OAAA,iC;
K;IAaA,uB;K;yFACqC,Y;M3G0EY,MAAM,6B2G1EJ,oC3G0EkC,WAA9B,C;K;4F2GzEf,Y;M3GyES,MAAM,6
B2GzED,uC3GyE+B,WAA9B,C;K;+C2GvEnD,iB;M3GuE6C,MAAM,6B2GvEG,uC3GuE2B,WAA9B,C;K;mC2
GrEnD,iB;MAA4C,iBAAU,I;K;qCAEtD,Y;MAA+B,Q;K;;oHCnE/B,qB;MAAQ,2B;K;;;;;;;;;;;;;;;;;;;;;;;;;;;;;ICKZ,g
E;MAMI,qBAAU,UAAV,EAAgC,OAAV,WAAU,CAAhC,EAA0C,gBAA1C,C;K;IAEJ,8B;MAC2C,iC;K;IAE3C,
kC;MAC+C,qBAAU,cAAA,KAAM,WAAN,CAAV,EAA8B,KAAM,UAApC,EAA+C,IAA/C,C;K;IAE/C,2D;MA
M0B,IAAN,I;MAAA,QAAM,QAAN,C;aACZ,I;;UAAA,K;aACA,K;;UAAA,K;;UAFY,K;;MAAhB,oB;MAMA,O
AAO,uBAAmB,IAAnB,EAAqC,OAAZ,WAAY,CAArC,EAA+C,SAA/C,EAA0D,KAA1D,C;K;IAGX,kC;MAEI,O
AAA,uCAAgB,K;K;IAEpB,8C;MAEI,OAAAA,uCAAgB,mBAAU,IAAV,C;K;IAEpB,8C;MAEI,OAAAA,uCAAgB,m
BAAU,IAAV,C;K;IAEpB,kD;MAEI,OAAAA,uCAAgB,uBAAc,IAAd,C;K;IC/CI,8D;MACpB,sC;MACA,sC;MACA
,kD;K;mEAFA,Y;MAAA,gC;K;kEACA,Y;MAAA,+B;K;yEACA,Y;MAAA,sC;K;iCAEA,iB;MACI,0CACQ,wBA
Ac,KAAM,WAApB,CADR,IAC0C,uBAAa,KAAM,UAAnB,CAD1C,IAC0E,0BAAoB,KAAM,iB;K;mCAExG,Y;
MACI,SAAC,CAAW,SAAX,eAAW,CAAX,GAAwB,EAAxB,QAAuC,SAAV,cAAU,CAAvC,IAAD,IAAsD,EAAt
D,QAA4E,SAAjB,qBAAiB,CAA5E,I;K;IAYgD,mD;MAAAA,qB;QAAE,OAAG,0BAAH,EAAG,C;O;K;mCAVzD,
Y;MACkB,UACO,M;MADrB,aAAc,2D;MAEV,cAAU,IAAV,C;QAA6B,SAAX,eAAW,W;WAC7B,IAAAA,MAAO
,WAAP,S;QAAAoC,SAAP,MAAO,W;;QAC5B,+B;MAHZ,2B;MAMA,WACQ,cAAU,UAAd,GAAyB,EAAzB,GA
Ce,eAAV,cAAU,EAAAa,IAAb,EAAmB,GAAnB,EAAwB,GAAxB,kBAA6B,+BAA7B,C;MACnB,eAAmB,qBAAJ,
GAAsB,GAAtB,GAA+B,E;MAE9C,OAAO,iBAAiB,IAAjB,GAAwB,Q;K;qCAGnC,qB;MAEI,IAAI,sBAAY,IAA

hB,C;QAAsB,OAAO,G;MAC7B,OAAgB,aAAT,kBAAS,CAAT,GAA+B,SAAL,cAAK,C;K;;IAI9C,wB;MAAA,4B;MACI,4BAAwC,I;MACxC,2BAAgD,W;MAChD,kCAAyC,K;K;0FAFzC,Y;MAAA,gC;K;yFACA,Y;MAAA,+B;K;gGACA,Y;MAAA,sC;K;sCACA,Y;MAAkC,gB;K;;;IAJtC,oC;MAAA,mC;QAAA,kB;OAAA,4B;K;IAOA,iC;MACI,QAAM,SAAN,M;aACI,W;UADJ,OAC2B,E;aACvB,I;UAFJ,OAEoB,K;aAChB,K;UAHJ,OAGqB,M;gBAHrB,mC;;K;IC3CkC,oE;MAClC,0B;MACA,wC;MACA,kC;MACA,oC;K;sEAHA,Y;MAAA,0B;K;6EACA,Y;MAAA,iC;K;0EACA,Y;MAAA,8B;K;2EACA,Y;MAAA,+B;K;4CAEA,Y;MAAkC,gB;K;;8CANtC,Y;MACI,gB;K;8CADJ,Y;MAEI,uB;K;8CAFJ,Y;MAGI,oB;K;8CAHJ,Y;MAII,qB;K;gDAJJ,kD;MAAA,8BACI,kCADJ,EAEI,uDAFJ,EAGI,8CAHJ,EAII,iDAJJ,C;K;4CAAA,Y;MAAA,c;MACI,qD;MACA,4D;MACA,yD;MACA,0D;MAJJ,a;K;0CAAA,iB;MAAA,4BACI,oCADJ,EAEI,kDAFJ,EAGI,4CAHJ,EAII,8CAJJ,EAKI,gBALJ,C;K;ICAA,4B;MAAA,gC;MAAA,eACI,wBADJ,EAEI,oBAFJ,EAGI,gEAHJ,EAII,gBAJJ,EAKI,gCALJ,EAMI,kCANJ,EAOI,kCAPJ,EAQI,kCARJ,EASI,kCATJ,EAUI,kCAVJ,EAWI,kCAXJ,EAYI,kCAZJ,EAaI,kCAbJ,EAcI,kCAdJ,EAeI,kCAfJ,EAgBI,kCAhBJ,EAiBI,kCAjBJ,EAkBI,kCAlBJ,EAmBI,kCAnBJ,EAoBI,kCApBJ,EAqBI,kCArBJ,EAsBI,kCAtBJ,EAuBI,kCAvBJ,EAwBI,kCAxBJ,EAyBI,kCAzBJ,EA0BI,kCA1BJ,EA2BI,kCA3BJ,EA4BI,kCA5BJ,EA6BI,kCA7BJ,EA8BI,kCA9BJ,EA+BI,kCA/BJ,EAgCI,kCAhCJ,EAiCI,kCAjCJ,EAkCI,kCAlCJ,EAmCI,kCAnCJ,EAoCI,kCApCJ,EAqCI,kCArCJ,EAsCI,kCAtCJ,EAuCI,kCAvCJ,EAwCI,kCAxCJ,EAyCI,kCAzCJ,EA0CI,kCA1CJ,EA2CI,kCA3CJ,EA4CI,kCA5CJ,EA6CI,kCA7CJ,EA8CI,kCA9CJ,EA+CI,kCA/CJ,EAgDI,kCAhDJ,EAiDI,kCAjDJ,EAkDI,kCAlDJ,EAmDI,kCAnDJ,EAoDI,kCApDJ,EAqDI,kCArDJ,EAsDI,kCAtDJ,EAuDI,kCAvDJ,EAwDI,kCAxDJ,EAyDI,kCAzDJ,EA0DI,kCA1DJ,EA2DI,kCA3DJ,EA4DI,kCA5DJ,EA6DI,kCA7DJ,EA8DI,kCA9DJ,EA+DI,kCA/DJ,EAgEI,kCAhEJ,EAiEI,kCAjEJ,EAkEI,kCAlEJ,EAmEI,kCAnEJ,EAoEI,kCApEJ,EAqEI,kCArEJ,EAsEI,kCAtEJ,EAuEI,kCAvEJ,EAwEI,kCAxEJ,EAyEI,kCAzEJ,EA0EI,kCA1EJ,EA2EI,kCA3EJ,EA4EI,kCA5EJ,EA6EI,kCA7EJ,EA8EI,kCA9EJ,EA+EI,kCA/EJ,EAgFI,kCAhFJ,EAiFI,kCAjFJ,EAkFI,kCAlFJ,EAmFI,kCAnFJ,EAoFI,kCApFJ,EAqFI,kCArFJ,EAsFI,kCAtFJ,EAuFI,kCAvFJ,EAwFI,kCAxFJ,EAyFI,kCAzFJ,EA0FI,kCA1FJ,EA2FI,kCA3FJ,EA4FI,kCA5FJ,EA6FI,kCA7FJ,EA8FI,kCA9FJ,EA+FI,kCA/FJ,EAgGI,kCAhGJ,EAiGI,kCAjGJ,EAkGI,kCAlGJ,EAmGI,kCAnGJ,EAoGI,kCApGJ,EAqGI,kCArGJ,EAsGI,kCAtGJ,EAuGI,kCAvGJ,EAwGI,kCAxGJ,EAyGI,kCAzGJ,EA0GI,kCA1GJ,EA2GI,kCA3GJ,EA4GI,kCA5GJ,EA6GI,kCA7GJ,EA8GI,kCA9GJ,EA+GI,kCA/GJ,EAgHI,kCAhHJ,EAiHI,kCAjHJ,EAkHI,kCAlHJ,EAmHI,kCAnHJ,EAoHI,kCApHJ,EAqHI,kCArHJ,EAsHI,kCAtHJ,EAuHI,kCAvHJ,EAwHI,kCAxHJ,EAyHI,kCAzHJ,EA0HI,kCA1HJ,EA2HI,kCA3HJ,EA4HI,kCA5HJ,EA6HI,kCA7HJ,EA8HI,kCA9HJ,EA+HI,kCA/HJ,EAgII,kCAhIJ,EAiII,kCAjIJ,EAkII,kCAlIJ,EAmII,kCAnIJ,EAoII,kCApIJ,EAqII,kCArIJ,EAsII,kCAtIJ,EAuII,kCAvIJ,EAwII,kCAxIJ,EAyII,kCAzIJ,EA0II,kCA1IJ,EA2II,kCA3IJ,EA4II,kCA5IJ,EA6II,kCA7IJ,EA8II,kCA9IJ,EA+II,kCA/IJ,EAgJI,kCAhJJ,EAiJI,kCAjJJ,EAkJI,kCAlJJ,EAmJI,kCAnJJ,EAoJI,kCApJJ,EAqJI,kCArJJ,EAsJI,kCAtJJ,EAuJI,kCAvJJ,EAwJI,kCAxJJ,EAyJI,kCAzJJ,EA0JI,kCA1JJ,EA2JI,kCA3JJ,EA4JI,kCA5JJ,EA6JI,kCA7JJ,EA8JI,kCA9JJ,EA+JI,kCA/JJ,EAgKI,kCAhKJ,EAiKI,kCAjKJ,EAkKI,kCAlKJ,EAmKI,kCAnKJ,EAoKI,kCApKJ,EAqKI,kCArKJ,EAsKI,kCAtKJ,EAuKI,kCAvKJ,EAwKI,kCAxKJ,EAyKI,kCAzKJ,EA0KI,kCA1KJ,EA2KI,kCA3KJ,EA4KI,kCA5KJ,EA6KI,kCA7KJ,EA8KI,kCA9KJ,EA+KI,kCA/KJ,EAgLI,kCAhLJ,EAiLI,kCAjLJ,EAkLI,kCAlLJ,EAmLI,kCAnLJ,EAoLI,kCApLJ,EAqLI,kCArLJ,EAsLI,kCAtLJ,EAuLI,kCAvLJ,EAwLI,kCAxLJ,EAyLI,kCAzLJ,EA0LI,kCA1LJ,EA2LI,kCA3LJ,EA4LI,kCA5LJ,EA6LI,kCA7LJ,EA8LI,kCA9LJ,EA+LI,kCA/LJ,EAgMI,kCAhMJ,EAiMI,kCAjMJ,EAkMI,kCAlMJ,EAmMI,kCAnMJ,EAoMI,kCApMJ,EAqMI,kCArMJ,EAsMI,kCAtMJ,EAuMI,kCAvMJ,EAwMI,kCAxMJ,EAyMI,kCAzMJ,EA0MI,kCA1MJ,EA2MI,kCA3MJ,EA4MI,kCA5MJ,EA6MI,kCA7MJ,EA8MI,kCA9MJ,EA+MI,kCA/MJ,EAgNI,kCAhNJ,EAiNI,kCAjNJ,EAkNI,kCAlNJ,EAmNI,kCAnNJ,EAoNI,kCApNJ,EAqNI,kCArNJ,EAsNI,kCAtNJ,EAuNI,kCAvNJ,EAwNI,kCAxNJ,EAyNI,kCAzNJ,EA0NI,kCA1NJ,EA2NI,kCA3NJ,EA4NI,kCA5NJ,EA6NI,kCA7NJ,EA8NI,kCA9NJ,EA+NI,kCA/NJ,EAgOI,kCAhOJ,EAiOI,kCAjOJ,EAkOI,kCAlOJ,EAmOI,kCAnOJ,EAoOI,kCApOJ,EAqOI,kCArOJ,EAsOI,kCAtOJ,EAuOI,kCAvOJ,EAwOI,kCAxOJ,EAyOI,kCAzOJ,EA0OI,kCA1OJ,EA2OI,kCA3OJ,EA4OI,kCA5OJ,EA6OI,kCA7OJ,EA8OI,kCA9OJ,EA+OI,kCA/OJ,EAgPI,kCAhPJ,EAiPI,kCAjPJ,EAkPI,kCAlPJ,EAmPI,kCAnPJ,EAoPI,kCApPJ,EAqPI,kCArPJ,EAsPI,kCAtPJ,EAuPI,kCAvPJ,EAwPI,kCAxPJ,EAyPI,kCAzPJ,EA0PI,kCA1PJ,EA2PI,kCA3PJ,EA4PI,kCA5PJ,EA6PI,kCA7PJ,EA8PI,kCA9PJ,EA+PI,kCA/PJ,EAgQI,kCAhQJ,EAiQI,kCAjQJ,EAkQI,kCAlQJ,EAmQI,kCAnQJ,EAoQI,kCApQJ,EAqQI,kCArQJ,EAsQI,kCAtQJ,EAuQI,kCAvQJ,EAwQI,kCAxQJ,EAyQI,kCAzQJ,EA0QI,kCA1QJ,EA2QI,kCA3QJ,EA4QI,kCA5QJ,EA6QI,kCA7QJ,EA8QI,kCA9QJ,EA+QI,kCA/QJ,EAgRI,kCAhRJ,EAiRI,kCAjRJ,EAkRI,kCAlRJ,EAmRI,kCAnRJ,EAoRI,kCApRJ,EAqRI,kCArRJ,EAsRI,kCAtRJ,EAuRI,kCAvRJ,EAwRI,kCAxRJ,EAyRI,kCAzRJ,EA0RI,kCA1RJ,EA2RI,kCA3RJ,EA4RI,kCA5RJ,EA6RI,kCA7RJ,EA8RI,kCA9RJ,EA+RI,kCA/RJ,EAgSI,kCAhSJ,EAiSI,kCAjSJ,EAkSI,kCAlSJ,EAmSI,kCAnSJ,EAoSI,kCApSJ,EAqSI,kCArSJ,EAsSI,kCAtSJ,EAuSI,kCAvSJ,EAwSI,kCAxSJ,EAySI,kCAzSJ,EA0SI,kCA1SJ,EA2SI,kCA3SJ,EA4SI,kCA5SJ,EA6SI,kCA7SJ,EA8SI,kCA9SJ,EA+SI,kCA/SJ,EAgTI,kCAhTJ,EAiTI,kCAjTJ,EAkTI,kCAlTJ,EAmTI,kCAnTJ,EAoTI,kCApTJ,EAqTI,kCArTJ,EAsTI,kCAtTJ,EAuTI,kCAvTJ,EAwTI,kCAxTJ,EAyTI,kCAzTJ,EA0TI,kCA1TJ,EA2TI,kCA3TJ,EA4TI,kCA5TJ,EA6TI,kCA7TJ,EA8TI,kCA9TJ,EA+TI,kCA/TJ,EAgUI,kCAhUJ,EAiUI,kCAjUJ,EAkUI,kCAlUJ,EAmUI,kCAnUJ,EAoUI,kCApUJ,EAqUI,kCArUJ,EAsUI,kCAtUJ,EAuUI,kCAvUJ,EAwUI,kCAxUJ,EAyUI,kCAzUJ,EA0UI,kCA1UJ,EA2UI,kCA3UJ,EA4UI,kCA5UJ,EA6UI,kCA7UJ,EA8UI,kCA9UJ,EA+UI,kCA/UJ,EAgVI,kCAhVJ,EAiVI,kCAjVJ,EAkVI,kCAlVJ,EAmVI,kCAnVJ,EAoVI,kCApVJ,EAqVI,kCArVJ,EAsVI,kCAtVJ,EAuVI,kCAvVJ,EAwVI,kCAxVJ,EAyVI,kCAzVJ,EA0VI,kCA1VJ,EA2VI,kCA3VJ,EA4VI,kCA5VJ,EA6VI,kCA7VJ,EA8VI,kCA9VJ,EA+VI,kCA/VJ,EAgWI,kCAhWJ,EAiWI,kCAjWJ,EAkWI,kCAlWJ,EAmWI,kCAnWJ,EAoWI,kCApWJ,EAqWI,kCArWJ,EAsWI,kCAtWJ,EAuWI,kCAvWJ,EAwWI,kCAxWJ,EAyWI,kCAzWJ,EA0WI,kCA1WJ,EA2WI,kCA3WJ,EA4WI,kCA5WJ,EA6WI,kCA7WJ,EA8WI,kCA9WJ,EA+WI,kCA/WJ,EAgXI,kCAhXJ,EAiXI,kCAjXJ,EAkXI,kCAlXJ,EAmXI,kCAnXJ,EAoXI,kCApXJ,EAqXI,kCArXJ,EAsXI,kCAtXJ,EAuXI,kCAvXJ,EAwXI,kCAxXJ,EAyXI,kCAzXJ,EA0XI,kCA1XJ,EA2XI,kCA3XJ,EA4XI,kCA5XJ,EA6XI,kCA7XJ,EA8XI,kCA9XJ,EA+XI,kCA/XJ,EAgYI,kCAhYJ,EAiYI,kCAjYJ,EAkYI,kCAlYJ,EAmYI,kCAnYJ,EAoYI,kCApYJ,EAqYI,kCArYJ,EAsYI,kCAtYJ,EAuYI,kCAvYJ,EAwYI,kCAxYJ,EAyYI,kCAzYJ,EA0YI,kCA1YJ,EA2YI,kCA3YJ,EA4YI,kCA5YJ,EA6YI,kCA7YJ,EA8YI,kCA9YJ,EA+YI,kCA/YJ,EAgZI,kCAhZJ,EAiZI,kCAjZJ,EAkZI,kCAlZJ,EAmZI,kCAnZJ,EAoZI,kCApZJ,EAqZI,kCArZJ,EAsZI,kCAtZJ,EAuZI,kCAvZJ,EAwZI,kCAxZJ,EAyZI,kCAzZJ,EA0ZI,kCA1ZJ,EA2ZI,kCA3ZJ,EA4ZI,kCA5ZJ,EA6ZI,kCA7ZJ,EA8ZI,kCA9ZJ,EA+ZI,kCA/ZJ,EAgaI,kCAhaJ,EAiaI,kCAjaJ,EAkaI,kCAlaJ,EAmaI,kCAnaJ,EAoaI,kCApaJ,EAqaI,kCAraJ,EAsaI,kCAtaJ,EAuaI,kCAvaJ,EAwaI,kCAxaJ,EAyaI,kCAzaJ,EA0aI,kCA1aJ,EA2aI,kCA3aJ,EA4aI,kCA5aJ,EA6aI,kCA7aJ,EA8aI,kCA9aJ,EA+aI,kCA/aJ,EAgbI,kCAhbJ,EAibI,kCAjbJ,EAkbI,kCAlbJ,EAmbI,kCAnbJ,EAobI,kCApbJ,EAqbI,kCArbJ,EAsbI,kCAtbJ,EAubI,kCAvbJ,EAwbI,kCAxbJ,EAybI,kCAzbJ,EA0bI,kCA1bJ,EA2bI,kCA3bJ,EA4bI,kCA5bJ,EA6bI,kCA7bJ,EA8bI,kCA9bJ,EA+bI,kCA/bJ,EAgcI,kCAhcJ,EAicI,kCAjcJ,EAkcI,kCAlcJ,EAmcI,kCAncJ,EAocI,kCApcJ,EAqcI,kCArcJ,EAscI,kCAtcJ,EAucI,kCAvcJ,EAwcI,kCAxcJ,EAycI,kCAzcJ,EA0cI,kCA1cJ,EA2cI,kCA3cJ,EA4cI,kCA5cJ,EA6cI,kCA7cJ,EA8cI,kCA9cJ,EA+cI,kCA/cJ,EAgdI,kCAhdJ,EAidI,kCAjdJ,EAkdI,kCAldJ,EAmdI,kCAndJ,EAodI,kCApdJ,EAqdI,kCArdJ,EAsdI,kCAtdJ,EAudI,kCAvdJ,EAwdI,kCAxdJ,EAydI,kCAzdJ,EA0dI,kCA1dJ,EA2dI,kCA3dJ,EA4dI,kCA5dJ,EA6dI,kCA7dJ,EA8dI,kCA9dJ,EA+dI,kCA/dJ,EAgeI,kCAheJ,EAieI,kCAjeJ,EAkeI,kCAleJ,EAmeI,kCAneJ,EAoeI,kCApeJ,EAqeI,kCAreJ,EAseI,kCAteJ,EAueI,kCAveJ,EAweI,kCAxeJ,EAyeI,kCAzeJ,EA0eI,kCA1eJ,EA2eI,kCA3eJ,EA4eI,kCA5eJ,EA6eI,kCA7eJ,EA8eI,kCA9eJ,EA+eI,kCA/eJ,EAgfI,kCAhfJ,EAifI,kCAjfJ,EAkfI,kCAlfJ,EAmfI,kCAnfJ,EAofI,kCApfJ,EAqfI,kCArfJ,EAsfI,kCAtfJ,EAufI,kCAvfJ,EAwfI,kCAxfJ,EAyfI,kCAzfJ,EA0fI,kCA1fJ,EA2fI,kCA3fJ,EA4fI,kCA5fJ,EA6fI,kCA7fJ,EA8fI,kCA9fJ,EA+fI,kCA/fJ,EAggBI,kCAhgBJ,EAigBI,kCAjgBJ,EAkgBI,kCAlgBJ,EAmgBI,kCAngBJ,EAogBI,kCApgBJ,EAqgBI,kCArgBJ,EAsgBI,kCAtgBJ,EAugBI,kCAvgBJ,EAwgBI,kCAxgBJ,EAygBI,kCAzgBJ,EA0gBI,kCA1gBJ,EA2gBI,kCA3gBJ,EA4gBI,kCA5gBJ,EA6gBI,kCA7gBJ,EA8gBI,kCA9gBJ,EA+gBI,kCA/gBJ,EAghBI,kCAhhBJ,EAihBI,kCAjhBJ,EAkhBI,kCAlhBJ,EAmhBI,kCAnhBJ,EAohBI,kCAphBJ,EAqhBI,kCArhBJ,EAshBI,kCAthBJ,EAuhBI,kCAvhBJ,EAwhBI,kCAxhBJ,EAyhBI,kCAzhBJ,EA0hBI,kCA1hBJ,EA2hBI,kCA3hBJ,EA4hBI,kCA5hBJ,EA6hBI,kCA7hBJ,EA8hBI,kCA9hBJ,EA+hBI,kCA/hBJ,EAgiBI,kCAhiBJ,EAiiBI,kCAjiBJ,EAkiBI,kCAliBJ,EAmiBI,kCAniBJ,EAoiBI,kCApiBJ,EAqiBI,kCAriBJ,EAsiBI,kCAtiBJ,EAuiBI,kCAviBJ,EAwiBI,kCAxiBJ,EAyiBI,kCAziBJ,EA0iBI,kCA1iBJ,EA2iBI,kCA3iBJ,EA4iBI,kCA5iBJ,EA6iBI,kCA7iBJ,EA8iBI,kCA9iBJ,EA+iBI,kCA/iBJ,EAgjBI,kCAhjBJ,EAijBI,kCAjjBJ,EAkjBI,kCAljBJ,EAmjBI,kCAnjBJ,EAojBI,kCApjBJ,EAqjBI,kCArjBJ,EAsjBI,kCAtjBJ,EAujBI,kCAvjBJ,EAwjBI,kCAxjBJ,EAyjBI,kCAzjBJ,EA0jBI,kCA1jBJ,EA2jBI,kCA3jBJ,EA4jBI,kCA5jBJ,EA6jBI,kCA7jBJ,EA8jBI,kCA9jBJ,EA+jBI,kCA/jBJ,EAgkBI,kCAhkBJ,EAikBI,kCAjkBJ,EAkkBI,kCAlkBJ,EAmkBI,kCAnkBJ,EAokBI,kCApkBJ,EAqkBI,kCArkBJ,EAskBI,kCAtkBJ,EAukBI,kCAvkBJ,EAwkBI,kCAxkBJ,EAykBI,kCAzkBJ,EA0kBI,kCA1kBJ,EA2kBI,kCA3kBJ,EA4kBI,kCA5kBJ,EA6kBI,kCA7kBJ,EA8kBI,kCA9kBJ,EA+kBI,kCA/kBJ,EAglBI,kCAhlBJ,EAilBI,kCAjlBJ,EAklBI,kCAllBJ,EAmlBI,kCAnlBJ,EAolBI,kCAplBJ,EAqlBI,kCArlBJ,EAslBI,kCAtlBJ,EAulBI,kCAvlBJ,EAwlBI,kCAxlBJ,EAylBI,kCAzlBJ,EA0lBI,kCA1lBJ,EA2lBI,kCA3lBJ,EA4lBI,kCA5lBJ,EA6lBI,kCA7lBJ,EA8lBI,kCA9lBJ,EA+lBI,kCA/lBJ,EAgmBI,kCAhmBJ,EAimBI,kCAjmBJ,EAkmBI,kCAlmBJ,EAmmBI,kCAnmBJ,EAomBI,kCApmBJ,EAqmBI,kCArmBJ,EAsmBI,kCAtmBJ,EAumBI,kCAvmBJ,EAwmBI,kCAxmBJ,EAymBI,kCAzmBJ,EA0mBI,kCA1mBJ,EA2mBI,kCA3mBJ,EA4mBI,kCA5mBJ,EA6mBI,kCA7mBJ,EA8mBI,kCA9mBJ,EA+mBI,kCA/mBJ,EAgnBI,kCAhnBJ,EAinBI,kCAjnBJ,EAknBI,kCAlnBJ,EAmnBI,kCAnnBJ,EAonBI,kCApnBJ,EAqnBI,kCArnBJ,EAsnBI,kCAtnBJ,EAunBI,kCAvnBJ,EAwnBI,kCAxnBJ,EAynBI,kCAznBJ,EA0nBI,kCA1nBJ,EA2nBI,kCA3nBJ,EA4nBI,kCA5nBJ,EA6nBI,kCA7nBJ,EA8nBI,kCA9nBJ,EA+nBI,kCA/nBJ,EAgoBI,kCAhoBJ,EAioBI,kCAjoBJ,EAkoBI,kCAloBJ,EAmoBI,kCAnoBJ,EAooBI,kCApoBJ,EAqoBI,kCAroBJ,EAsoBI,kCAtoBJ,EAuoBI,kCAvoBJ,EAwoBI,kCAxoBJ,EAyoBI,kCAzoBJ,EA0oBI,kCA1oBJ,EA2oBI,kCA3oBJ,EA4oBI,kCA5oBJ,EA6oBI,kCA7oBJ,EA8oBI,kCA9oBJ,EA+oBI,kCA/oBJ,EAgpBI,kCAhpBJ,EAipBI,kCAjpBJ,EAkpBI,kCAlpBJ,EAmpBI,kCAnpBJ,EAopBI,kCAppBJ,EAqpBI,kCArpBJ,EAspBI,kCAtpBJ,EAupBI,kCAvpBJ,EAwpBI,kCAxpBJ,EAypBI,kCAzpBJ,EA0pBI,kCA1pBJ,EA2pBI,kCA3pBJ,EA4pBI,kCA5pBJ,EA6pBI,kCA7pBJ,EA8pBI,kCA9pBJ,EA+pBI,kCA/pBJ,EAgqBI,kCAhqBJ,EAiqBI,kCAjqBJ,EAkqBI,kCAlqBJ,EAmqBI,kCAnqBJ,EAoqBI,kCApqBJ,EAqqBI,kCArqBJ,EAsqBI,kCAtqBJ,EAuqBI,kCAvqBJ,EAwqBI,kCAxqBJ,EAyqBI,kCAzqBJ,EA0qBI,kCA1qBJ,EA2qBI,kCA3qBJ,EA4qBI,kCA5qBJ,EA6qBI,kCA7qBJ,EA8qBI,kCA9qBJ,EA+qBI,kCA/qBJ,EAgrBI,kCAhrBJ,EAirBI,kCAjrBJ,EAkrBI,kCAlrBJ,EAmrBI,kCAnrBJ,EAorBI,kCAprBJ,EAqrBI,kCArrBJ,EAsrBI,kCAtrBJ,EAurBI,kCAvrBJ,EAwrBI,kCAxrBJ,EAyrBI,kCAzrBJ,EA0rBI,kCA1rBJ,EA2rBI,kCA3rBJ,EA4rBI,kCA5rBJ,EA6rBI,kCA7rBJ,EA8rBI,kCA9rBJ,EA+rBI,kCA/rBJ,EAgsBI,kCAhsBJ,EAisBI,kCAjsBJ,EAksBI,kCAlsBJ,EAmsBI,kCAnsBJ,EAosBI,kCApsBJ,EAqsBI,kCArsBJ,EAssBI,kCAtsBJ,EAusBI,kCAvsBJ,EAwsBI,kCAxsBJ,EAysBI,kCAzsBJ,EA0sBI,kCA1sBJ,EA2sBI,kCA3sBJ,EA4sBI,kCA5sBJ,EA6sBI,kCA7sBJ,EA8sBI,kCA9sBJ,EA+sBI,kCA/sBJ,EAgtBI,kCAhtBJ,EAitBI,kCAjtBJ,EAktBI,kCAltBJ,EAmtBI,kCAntBJ,EAotBI,kCAptBJ,EAqtBI,kCArtBJ,EAstBI,kCAttBJ,EAutBI,kCAvtBJ,EAwtBI,kCAxtBJ,EAytBI,kCAztBJ,EA0tBI,kCA1tBJ,EA2tBI,kCA3tBJ,EA4tBI,kCA5tBJ,EA6tBI,kCA7tBJ,EA8tBI,kCA9tBJ,EA+tBI,kCA/tBJ,EAguBI,kCAhuBJ,EAiuBI,kCAjuBJ,EAkuBI,kCAluBJ,EAmuBI,kCAnuBJ,EAouBI,kCApuBJ,EAquBI,kCAruBJ,EAsuBI,kCAtuBJ,EAuuBI,kCAvuBJ,EAwuBI,kCAxuBJ,EAyuBI,kCAzuBJ,EA0uBI,kCA1uBJ,EA2uBI,kCA3uBJ,EA4uBI,kCA5uBJ,EA6uBI,kCA7uBJ,EA8uBI,kCA9uBJ,EA+uBI,kCA/uBJ,EAgvBI,kCAhvBJ,EAivBI,kCAjvBJ,EAkvBI,kCAlvBJ,EAmvBI,kCAnvBJ,EAovBI,kCApvBJ,EAqvBI,kCArvBJ,EAsvBI,kCAtvBJ,EAuvBI,kCAvvBJ,EAwvBI,kCAxvBJ,EAyvBI,kCAzvBJ,EA0vBI,kCA1vBJ,EA2vBI,kCA3vBJ,EA4vBI,kCA5vBJ,EA6vBI,kCA7vBJ,EA8vBI,kCA9vBJ,EA+vBI,kCA/vBJ,EAgwBI,kCAhwBJ,EAiwBI,kCAjwBJ,EAkwBI,kCAlwBJ,EAmwBI,kCAnwBJ,EAowBI,kCApwBJ,EAqwBI,kCArwBJ,EAswBI,kCAtwBJ,EAuwBI,kCAvwBJ,EAwwBI,kCAxwBJ,EAywBI,kCAzwBJ,EA0wBI,kCA1wBJ,EA2wBI,kCA3wBJ,EA4wBI,kCA5wBJ,EA6wBI,kCA7wBJ,EA8wBI,kCA9wBJ,EA+wBI,kCA/wBJ,EAgxBI,kCAhxBJ,EAixBI,kCAjxBJ,EAkxBI,kCAlxBJ,EAmxBI,kCAnxBJ,EAoxBI,kCApxBJ,EAqxBI,kCArxBJ,EAsxBI,kCAtxBJ,EAuxBI,kCAvxBJ,EAwxBI,kCAxxBJ,EAyxBI,kCAzxBJ,EA0xBI,kCA1xBJ,EA2xBI,kCA3xBJ,EA4xBI,kCA5xBJ,EA6xBI,kCA7xBJ,EA8xBI,kCA9xBJ,EA+xBI,kCA/xBJ,EAgyBI,kCAhyBJ,EAiyBI,kCAjyBJ,EAkyBI,kCAlyBJ,EAmyBI,kCAnyBJ,EAoyBI,kCApyBJ,EAqyBI,kCAryBJ,EAsyBI,kCAtyBJ,EAuyBI,kCAvyBJ,EAwyBI,kCAxyBJ,EAyyBI,kCAzyBJ,EA0yBI,kCA1yBJ,EA2yBI,kCA3yBJ,EA4yBI,kCA5yBJ,EA6yBI,kCA7yBJ,EA8yBI,kCA9yBJ,EA+yBI,kCA/yBJ,EAgzBI,kCAhzBJ,EAizBI,kCAjzBJ,EAkzBI,kCAlzBJ,EAmzBI,kCAnzBJ,EAozBI,kCApzBJ,EAqzBI,kCArzBJ,EAszBI,kCAtzBJ,EAuzBI,kCAvzBJ,EAwzBI,kCAxzBJ,EAyzBI,kCAzzBJ,EA0zBI,kCA1zBJ,EA2zBI,kCA3zBJ,EA4zBI,kCA5zBJ,EA6zBI,kCA7zBJ,EA8zBI,kCA9zBJ,EA+zBI,kCA/zBJ,EAg0BI,kCAh0BJ,EAi0BI,kCAj0BJ,EAk0BI,kCAl0BJ,EAm0BI,kCAn0BJ,EAo0BI,kCAp0BJ,EAq0BI,kCAr0BJ,EAs0BI,kCAt0BJ,EAu0BI,kCAv0BJ,EAw0BI,kCAx0BJ,EAy0BI,kCAz0BJ,EA00BI,kCA10BJ,EA20BI,kCA30BJ,EA40BI,kCA50BJ,EA60BI,kCA70BJ,EA80BI,kCA90BJ,EA+0BI,kCA/0BJ,EAg1BI,kCAh1BJ,EAi1BI,kCAj1BJ,EAk1BI,kCAl1BJ,EAm1BI,kCAn1BJ,EAo1BI,kCAp1BJ,EAq1BI,kCAr1BJ,EAs1BI,kCAt1BJ,EAu1BI,kCAv1BJ,EAw1BI,kCAx1BJ,EAy1BI,kCAz1BJ,EA01BI,kCA11BJ,EA21BI,kCA31BJ,EA41BI,kCA51BJ,EA61BI,kCA71BJ,EA81BI,kCA91BJ,EA+1BI,kCA/1BJ,EAg2BI,kCAh2BJ,EAi2BI,kCAj2BJ,EAk2BI,kCAl2BJ,EAm2BI,kCAn2BJ,EAo2BI,kCAp2BJ,EAq2BI,kCAr2BJ,EAs2BI,kCAt2BJ,EAu2BI,kCAv2BJ,EAw2BI,kCAx2BJ,EAy2BI,kCAz2BJ,EA02BI,kCA12BJ,EA22BI,kCA32BJ,EA42BI,kCA52BJ,EA62BI,kCA72BJ,EA82BI,kCA92BJ,EA+2BI,kCA/2BJ,EAg3BI,kCAh3BJ,EAi3BI,kCAj3BJ,EAk3BI,kCAl3BJ,EAm3BI,kCAn3BJ,EAo3BI,kCAp3BJ,EAq3BI,kCAr3BJ,EAs3BI,kCAt3BJ,EAu3BI,kCAv3BJ,EAw3BI,kCAx3BJ,EAy3BI,kCAz3BJ,EA03BI,kCA13BJ,EA23BI,kCA33BJ,EA43BI,kCA53BJ,EA63BI,kCA73BJ,EA83BI,kCA93BJ,EA+3BI,kCA/3BJ,EAg4BI,kCAh4BJ,EAi4BI,kCAj4BJ,EAk4BI,kCAl4BJ,EAm4BI,kCAn4BJ,EAo4BI,kCAp4BJ,EAq4BI,kCAr4BJ,EAs4BI,kCAt4BJ,EAu4BI,kCAv4BJ,EAw4BI,kCAx4BJ,EAy4BI,kCAz4BJ,EA04BI,kCA14BJ,EA24BI,kCA34BJ,EA44BI,kCA54BJ,EA64BI,kCA74BJ,EA84BI,kCA94BJ,EA+4BI,kCA/4BJ,EAg5BI,kCAh5BJ,EAi5BI,kCAj5BJ,EAk5BI,kCAl5BJ,EAm5BI,kCAn5BJ,EAo5BI,kCAp5BJ,EAq5BI,kCAr5BJ,EAs5BI,kCAt5BJ,EAu5BI,kCAv5BJ,EAw5BI,kCAx5BJ,EAy5BI,kCAz5BJ,EA05BI,kCA15BJ,EA25BI,kCA35BJ,EA45BI,kCA55BJ,EA65BI,kCA75BJ,EA85BI,kCA95BJ,EA+5BI,kCA/5BJ,EAg6BI,kCAh6BJ,EAi6BI,kCAj6BJ,EAk6BI,kCAl6BJ,EAm6BI,kCAn6BJ,EAo6BI,kCAp6BJ,EAq6BI,kCAr6BJ,EAs6BI,kCAt6BJ,EAu6BI,kCAv6BJ,EAw6BI,kCAx6BJ,EAy6BI,kCAz6BJ,EA06BI,kCA16BJ,EA26BI,kCA36BJ,EA46BI,kCA56BJ,EA66BI,kCA76BJ,EA86BI,kCA96BJ,EA+6BI,kCA/6BJ,EAg7BI,kCAh7BJ,EAi7BI,kCAj7BJ,EAk7BI,kCAl7BJ,EAm7BI,kCAn7BJ,EAo7BI,kCAp7BJ,EAq7BI,kCAr7BJ,EAs7BI,kCAt7BJ,EAu7BI,kCAv7BJ,EAw7BI,kCAx7BJ,EAy7BI,kCAz7BJ,EA07BI,kCA17BJ,EA27BI,kCA37BJ,EA47BI,kCA57BJ,EA67BI,kCA77BJ,EA87BI,kCA97BJ,EA+7BI,kCA/7BJ,EAg8BI,kCAh8BJ,EAi8BI,kCAj8BJ,EAk8BI,kCAl8BJ,EAm8BI,kCAn8BJ,EAo8BI,kCAp8BJ,EAq8BI,kCAr8BJ,EAs8BI,kCAt8BJ,EAu8BI,kCAv8BJ,EAw8BI,kCAx8BJ,EAy8BI,kCAz8BJ,EA08BI,kCA18BJ,EA28BI,kCA38BJ,EA48BI,kCA58BJ,EA68BI,kCA78BJ,EA88BI,kCA98BJ,EA+8BI,kCA/8BJ,EAg9BI,kCAh9BJ,EAi9BI,kCAj9BJ,EAk9BI,kCAl9BJ,EAm9BI,kCAn9BJ,EAo9BI,kCAp9BJ,EAq9BI,kCAr9BJ,EAs9BI,kCAt9BJ,EAu9BI,kCAv9BJ,EAw9BI,kCAx9BJ,EAy9BI,kCAz9BJ,EA09BI,kCA19BJ,EA29BI,kCA39BJ,EA49BI,kCA59BJ,EA69BI,kCA79BJ,EA89BI,kCA99BJ,EA+9BI,kCA/9BJ,EAg+BI,kCAh+BJ,EAi+BI,kCAj+BJ,EAk+BI,kCAl+BJ,EAm+BI,kCAn+BJ,EAo+BI,kCAp+BJ,EAq+BI,kCAr+BJ,EAs+BI,kCAt+BJ,EAu+BI,kCAv+BJ,EAw+BI,kCAx+BJ,EAy+BI,kCAz+BJ,EA0+BI,kCA1+BJ,EA2+BI,kCA3+BJ,EA4+BI,kCA5+BJ,EA6+BI,kCA7+BJ,EA8+BI,kCA9+BJ,EA++BI,kCA/+BJ,EAg/BI,kCAh/BJ,EAi/BI,kCAj/BJ,EAk/BI,kCAl/BJ,EAm/BI,kCAn/BJ,EAo/BI,kCAp/BJ,EAq/BI,kCAr/BJ,EAs/BI,kCAt/BJ,EAu/BI,kCAv/BJ,EAw/BI,kCAx/BJ,EAy/BI,kCAz/BJ,EA0/BI,kCA1/BJ,EA2/BI,kCA3/BJ,EA4/BI,kCA5/BJ,EA6/BI,kCA7/BJ,EA8/BI,kCA9/BJ,EA+/BI,kCA//BJ,EAggCI,kCAhgCJ,EAigCI,kCAjgCJ,EAkgCI,kCAlgCJ,EAmgCI,kCAngCJ,EAogCI,kCApgCJ,EAqgCI,kCArgCJ,EAsgCI,kCAtgCJ,EAugCI,kCAvgCJ,EAwgCI,kCAxgCJ,EAygCI,kCAzgCJ,EA0gCI,kCA1gCJ,EA2gCI,kCA3gCJ,EA4gCI,kCA5gCJ,EA6gCI,kCA7gCJ,EA8gCI,kCA9gCJ,EA

KA,yEAGa,CAHb,EAGgB,IAHhB,C;MAKA,iFAGiB,CAHjB,EAGoB,IAHpB,C;MAKA,6EAGe,CAHf,EAGkB,IAHlB,C;MAKA,6FAGuB,CAHvB,EAG0B,IAH1B,C;MAKA,yFAGqB,CAHrB,EAGwB,IAHxB,C;MAKA,4EAGc,EAHd,EAGkB,IAHlB,C;MAKA,0EAGa,EAHb,EAGiB,IAHjB,C;MAKA,gFAGgB,EAHhB,EAGoB,IAHpB,C;MAKA,8EAGe,EAHf,EAGmB,IAHnB,C;MAKA,wFAGoB,EAHpB,EAGwB,IAHxB,C;MAKA,gEAGQ,EAHR,EAGY,IAHZ,C;MAKA,8DAGO,EAHP,EAGW,IAHX,C;MAKA,wEAGY,EAHZ,EAGgB,IAHhB,C;MAKA,oEAGU,EAHV,EAGc,IAHd,C;MAKA,kFAGiB,EAHjB,EAGqB,IAHrB,C;MAKA,oFAGkB,EAHlB,EAGsB,IAHtB,C;MAKA,gFAGgB,EAHhB,EAGoB,IAHpB,C;MAKA,4FAGsB,EAHtB,EAG0B,IAH1B,C;MAKA,oFAGkB,EAHlB,EAGsB,IAHtB,C;MAKA,wEAGY,EAHZ,EAGgB,IAHhB,C;MAKA,gFAGgB,EAHhB,EAGoB,IAHpB,C;MAKA,gFAGgB,EAHhB,EAGoB,IAHpB,C;MAKA,0EAGa,EAHb,EAGiB,IAHjB,C;MAKA,oGAGwB,EAHxB,EAG4B,IAH5B,C;MAKA,gGAGwB,EAHxB,EAG4B,IAH5B,C;MAUA,oC;K;;IA3JA,+C;MAAA,yB;MAAA,uC;K;;IAAA,qD;MAAA,yB;MAAA,6C;K;;IAAA,qD;MAAA,yB;MAAA,6C;K;;IAAA,qD;MAAA,yB;MAAA,6C;K;;IAAA,oD;MAAA,yB;MAAA,4C;K;;IAAA,iD;MAAA,yB;MAAA,yC;K;;IAAA,qD;MAAA,yB;MAAA,6C;K;;IAAA,mD;MAAA,yB;MAAA,2C;K;;IAAA,2D;MAAA,yB;MAAA,mD;K;;IAAA,yD;MAAA,yB;MAAA,iD;K;;IAAA,kD;MAAA,yB;MAAA,0C;K;;IAAA,iD;MAAA,yB;MAAA,yC;K;;IAAA,oD;MAAA,yB;MAAA,4C;K;;IAAA,mD;MAAA,yB;MAAA,2C;K;;IAAA,wD;MAAA,yB;MAAA,gD;K;;IAAA,4C;MAAA,yB;MAAA,oC;K;;IAAA,2C;MAAA,yB;MAAA,mC;K;;IAAA,gD;MAAA,yB;MAAA,wC;K;;IAAA,8C;MAAA,yB;MAAA,sC;K;;IAAA,qD;MAAA,yB;MAAA,6C;K;;IAAA,sD;MAAA,yB;MAAA,8C;K;;IAAA,oD;MAAA,yB;MAAA,4C;K;;IAAA,0D;MAAA,yB;MAAA,kD;K;;IAAA,sD;MAAA,yB;MAAA,8C;K;;IAAA,gD;MAAA,yB;MAAA,wC;K;;IAAA,oD;MAAA,yB;MAAA,4C;K;;IAAA,oD;MAAA,yB;MAAA,4C;K;;IAAA,iD;MAAA,yB;MAAA,yC;K;;IAAA,8D;MAAA,yB;MAAA,sD;K;;IAAA,4D;MAAA,yB;MAAA,oD;K;8CAKA,gB;MAG2D,OAAK,iBAAL,IAAK,CAAL,KAA2B,IAAK,c;K;IAE3F,kC;MAAA,sC;K;uDACI,oB;MAEQ,IADE,QACF,IAAG,CAAH,IADE,QACF,IAAM,EAAN,C;QADJ,OACgB,sBAAS,QAAT,C;WACZ,IAFE,QAEF,IAAG,EAAH,IAFE,QAEF,IAAO,EAAP,C;QAFJ,OAEiB,sBAAS,WAAW,CAAX,IAAT,C;;QACL,IAAL,CADU,MACM,gCAAY,eAAZ,QAAqB,qBAAzB,zB,C;K;;IAAL,+B;MAAK,yB;MAAL,6C;QAAK,+B;UAAL,yB;UAAK,6C;YAAK,+B;cAAL,yB;cAAK,6C;gBAAK,+B;kBAAL,yB;kBAAK,6C;oBAAK,+B;sBAAL,yB;sBAAK,6C;wBAAK,+B;0BAAL,yB;0BAAK,6C;4BAAK,+B;8BAAL,yB;8BAAK,6C;gCAAK,+B;kCAAL,yB;kCAAK,6C;oCAAK,+B;sCAAL,yB;sCAAK,6C;wCAAK,+B;0CAAL,yB;0CAAK,6C;4CAAK,+B;8CAAL,yB;8CAAK,6C;gDAAK,+B;kDAAL,yB;kDAAK,6C;oDAAK,+B;sDAAL,yB;sDAAK,6C;wDAAK,+B;0DAAL,yB;0DAAK,6C;4DAAK,+B;8DAAL,yB;8DAAK,6C;gEAAK,+B;kEAAL,yB;kEAAK,6C;oEAAK,+B;sEAAL,yB;sEAAK,6C;wEAAK,+B;0EAAL,yB;0EAAK,6C;4EAAK,+B;8EAAL,yB;8EAAK,6C;gFAAK,+B;kFAAL,yB;kFAAK,6C;oFAAK,+B;sFAAL,yB;sFAAK,6C;wFAAK,+B;0FAAL,yB;0FAAK,6C;4FAAK,+B;8FAAL,yB;8FAAK,6C;gGAAK,+B;kGAAL,yB;kGAAK,6C;oGAAK,+B;sGAAL,yB;sGAAK,6C;wGAAK,+B;0GAAL,yB;0GAAK,6C;4GAAK,+B;8GAAL,yB;8GAAK,6C;gHAAK,+B;kHAAL,yB;kHAAK,6C;oHAAK,+B;sHAAL,yB;sHAAK,6C;wHAAK,+B;0HAAL,yB;0HAAK,6C;4HAAK,+B;8HAAL,yB;8HAAK,6C;gIAAK,+B;kIAAL,yB;kIAAK,6C;oIAAK,+B;sIAAL,yB;sIAAK,6C;wIAAK,+B;0IAAL,yB;0IAAK,6C;4IAAK,+B;8IAAL,yB;8IAAK,6C;gJAAK,+B;kJAAL,yB;kJAAK,6C;oJAAK,+B;sJAAL,yB;sJAAK,6C;wJAAK,+B;0JAAL,yB;0JAAK,6C;4JAAK,+B;8JAAL,yB;8JAAK,6C;gKAAK,+B;kKAAL,yB;kKAAK,6C;oKAAK,+B;sKAAL,yB;sKAAK,6C;wKAAK,+B;0KAAL,yB;0KAAK,6C;4KAAK,+B;8KAAL,yB;8KAAK,6C;gLAAK,+B;kLAAL,yB;kLAAK,6C;oLAAK,+B;sLAAL,yB;sLAAK,6C;wLAAK,+B;0LAAL,yB;0LAAK,6C;4LAAK,+B;8LAAL,yB;8LAAK,6C;gMAAK,+B;kMAAL,yB;kMAAK,6C;oMAAK,+B;sMAAL,yB;sMAAK,6C;wMAAK,+B;0MAAL,yB;0MAAK,6C;4MAAK,+B;8MAAL,yB;8MAAK,6C;gNAAK,+B;kNAAL,yB;kNAAK,6C;oNAAK,+B;sNAAL,yB;sNAAK,6C;wNAAK,+B;0NAAL,yB;0NAAK,6C;4NAAK,+B;8NAAL,yB;8NAAK,6C;gOAAK,+B;kOAAL,yB;kOAAK,6C;oOAAK,+B;sOAAL,yB;sOAAK,6C;wOAAK,+B;0OAAL,yB;0OAAK,6C;4OAAK,+B;8OAAL,yB;8OAAK,6C;gPAAK,+B;kPAAL,yB;kPAAK,6C;oPAAK,+B;sPAAL,yB;sPAAK,6C;wPAAK,+B;0PAAL,yB;0PAAK,6C;4PAAK,+B;8PAAL,yB;8PAAK,6C;gQAAK,+B;kQAAL,yB;kQAAK,6C;oQAAK,+B;sQAAL,yB;sQAAK,6C;wQAAK,+B;0QAAL,yB;0QAAK,6C;4QAAK,+B;8QAAL,yB;8QAAK,6C;gRAAK,+B;kRAAL,yB;kRAAK,6C;oRAAK,+B;sRAAL,yB;sRAAK,6C;wRAAK,+B;0RAAL,yB;0RAAK,6C;4RAAK,+B;8RAAL,yB;8RAAK,6C;gSAAK,+B;kSAAL,yB;kSAAK,6C;oSAAK,+B;sSAAL,yB;sSAAK,6C;wSAAK,+B;0SAAL,yB;0SAAK,6C;4SAAK,+B;8SAAL,yB;8SAAK,6C;gTAAK,+B;kTAAL,yB;kTAAK,6C;oTAAK,+B;sTAAL,yB;sTAAK,6C;wTAAK,+B;0TAAL,yB;0TAAK,6C;4TAAK,+B;8TAAL,yB;8TAAK,6C;gUAAK,+B;kUAAL,yB;kUAAK,6C;oUAAK,+B;sUAAL,yB;sUAAK,6C;wUAAK,+B;0UAAL,yB;0UAAK,6C;4UAAK,+B;8UAAL,yB;8UAAK,6C;gVAAK,+B;kVAAL,yB;kVAAK,6C;oVAAK,+B;sVAAL,yB;sVAAK,6C;wVAAK,+B;0VAAL,yB;0VAAK,6C;4VAAK,+B;8VAAL,yB;8VAAK,6C;gWAAK,+B;kWAAL,yB;kWAAK,6C;oWAAK,+B;sWAAL,yB;sWAAK,6C;wWAAK,+B;0WAAL,yB;0WAAK,6C;4WAAK,+B;8WAAL,yB;8WAAK,6C;gXAAK,+B;kXAAL,yB;kXAAK,6C;oXAAK,+B;sXAAL,yB;sXAAK,6C;wXAAK,+B;0XAAL,yB;0XAAK,6C;4XAAK,+B;8XAAL,yB;8XAAK,6C;gYAAK,+B;kYAAL,yB;kYAAK,6C;oYAAK,+B;sYAAL,yB;sYAAK,6C;wYAAK,+B;0YAAL,yB;0YAAK,6C;4YAAK,+B;8YAAL,yB;8YAAK,6C;gZAAK,+B;kZAAL,yB;kZAAK,6C;oZAAK,+B;sZAAL,yB;sZAAK,6C;wZAAK,+B;0ZAAL,yB;0ZAAK,6C;4ZAAK,+B;8ZAAL,yB;8ZAAK,6C;gaAAK,+B;kaAAL,yB;kaAAK,6C;oaAAK,+B;saAAL,yB;saAAK,6C;waAAK,+B;0aAAL,yB;0aAAK,6C;4aAAK,+B;8aAAL,yB;8aAAK,6C;gbAAK,+B;kbAAL,yB;kbAAK,6C;obAAK,+B;sbAAL,yB;sbAAK,6C;wbAAK,+B;0bAAL,yB;0bAAK,6C;4bAAK,+B;8bAAL,yB;8bAAK,6C;gcAAK,+B;kcAAL,yB;kcAAK,6C;ocAAK,+B;scAAL,yB;scAAK,6C;wcAAK,+B;0cAAL,yB;0cAAK,6C;4cAAK,+B;8cAAL,yB;8cAAK,6C;gdAAK,+B;kdAAL,yB;kdAAK,6C;odAAK,+B;sdAAL,yB;sdAAK,6C;wdAAK,+B;0dAAL,yB;0dAAK,6C;4dAAK,+B;8dAAL,yB;8dAAK,6C;geAAK,+B;keAAL,yB;keAAK,6C;oeAAK,+B;seAAL,yB;seAAK,6C;weAAK,+B;0eAAL,yB;0eAAK,6C;4eAAK,+B;8eAAL,yB;8eAAK,6C;gfAAK,+B;kfAAL,yB;kfAAK,6C;ofAAK,+B;sfAAL,yB;sfAAK,6C;wfAAK,+B;0fAAL,yB;0fAAK,6C;4fAAK,+B;8fAAL,yB;8fAAK,6C;ggAAK,+B;kgAAL,yB;kgAAK,6C;ogAAK,+B;sgAAL,yB;sgAAK,6C;wgAAK,+B;0gAAL,yB;0gAAK,6C;4gAAK,+B;8gAAL,yB;8gAAK,6C;ghAAK,+B;khAAL,yB;khAAK,6C;ohAAK,+B;shAAL,yB;shAAK,6C;whAAK,+B;0hAAL,yB;0hAAK,6C;4hAAK,+B;8hAAL,yB;8hAAK,6C;giAAK,+B;kiAAL,yB;kiAAK,6C;oiAAK,+B;siAAL,yB;siAAK,6C;wiAAK,+B;0iAAL,yB;0iAAK,6C;4iAAK,+B;8iAAL,yB;8iAAK,6C;gjAAK,+B;kjAAL,yB;kjAAK,6C;ojAAK,+B;sjAAL,yB;sjAAK,6C;wjAAK,+B;0jAAL,yB;0jAAK,6C;4jAAK,+B;8jAAL,yB;8jAAK,6C;gkAAK,+B;kkAAL,yB;kkAAK,6C;okAAK,+B;skAAL,yB;skAAK,6C;wkAAK,+B;0kAAL,yB;0kAAK,6C;4kAAK,+B;8kAAL,yB;8kAAK,6C;glAAK,+B;klAAL,yB;klAAK,6C;olAAK,+B;slAAL,yB;slAAK,6C;wlAAK,+B;0lAAL,yB;0lAAK,6C;4lAAK,+B;8lAAL,yB;8lAAK,6C;gmAAK,+B;kmAAL,yB;kmAAK,6C;omAAK,+B;smAAL,yB;smAAK,6C;wmAAK,+B;0mAAL,yB;0mAAK,6C;4mAAK,+B;8mAAL,yB;8mAAK,6C;gnAAK,+B;knAAL,yB;knAAK,6C;onAAK,+B;snAAL,yB;snAAK,6C;wnAAK,+B;0nAAL,yB;0nAAK,6C;4nAAK,+B;8nAAL,yB;8nAAK,6C;goAAK,+B;koAAL,yB;koAAK,6C;ooAAK,+B;soAAL,yB;soAAK,6C;woAAK,+B;0oAAL,yB;0oAAK,6C;4oAAK,+B;8oAAL,yB;8oAAK,6C;gpAAK,+B;kpAAL,yB;kpAAK,6C;opAAK,+B;spAAL,yB;spAAK,6C;wpAAK,+B;0pAAL,yB;0pAAK,6C;4pAAK,+B;8pAAL,yB;8pAAK,6C;gqAAK,+B;kqAAL,yB;kqAAK,6C;oqAAK,+B;sqAAL,yB;sqAAK,6C;wqAAK,+B;0qAAL,yB;0qAAK,6C;4qAAK,+B;8qAAL,yB;8qAAK,6C;grAAK,+B;krAAL,yB;krAAK,6C;orAAK,+B;srAAL,yB;srAAK,6C;wrAAK,+B;0rAAL,yB;0rAAK,6C;4rAAK,+B;8rAAL,yB;8rAAK,6C;gsAAK,+B;ksAAL,yB;ksAAK,6C;osAAK,+B;ssAAL,yB;ssAAK,6C;wsAAK,+B;0sAAL,yB;0sAAK,6C;4sAAK,+B;8sAAL,yB;8sAAK,6C;gtAAK,+B;ktAAL,yB;ktAAK,6C;otAAK,+B;stAAL,yB;stAAK,6C;wtAAK,+B;0tAAL,yB;0tAAK,6C;4tAAK,+B;8tAAL,yB;8tAAK,6C;guAAK,+B;kuAAL,yB;kuAAK,6C;ouAAK,+B;suAAL,yB;suAAK,6C;wuAAK,+B;0uAAL,yB;0uAAK,6C;4uAAK,+B;8uAAL,yB;8uAAK,6C;gvAAK,+B;kvAAL,yB;kvAAK,6C;ovAAK,+B;svAAL,yB;svAAK,6C;wvAAK,+B;0vAAL,yB;0vAAK,6C;4vAAK,+B;8vAAL,yB;8vAAK,6C;gwAAK,+B;kwAAL,yB;kwAAK,6C;owAAK,+B;swAAL,yB;swAAK,6C;wwAAK,+B;0wAAL,yB;0wAAK,6C;4wAAK,+B;8wAAL,yB;8wAAK,6C;gxAAK,+B;kxAAL,yB;kxAAK,6C;oxAAK,+B;sxAAL,yB;sxAAK,6C;wxAAK,+B;0xAAL,yB;0xAAK,6C;4xAAK,+B;8xAAL,yB;8xAAK,6C;gyAAK,+B;kyAAL,yB;kyAAK,6C;oyAAK,+B;syAAL,yB;syAAK,6C;wyAAK,+B;0yAAL,yB;0yAAK,6C;4yAAK,+B;8yAAL,yB;8yAAK,6C;gzAAK,+B;kzAAL,yB;kzAAK,6C;ozAAK,+B;szAAL,yB;szAAK,6C;wzAAK,+B;0zAAL,yB;0zAAK,6C;4zAAK,+B;8zAAL,yB;8zAAK,6C;g0AAK,+B;k0AAL,yB;k0AAK,6C;o0AAK,+B;s0AAL,yB;s0AAK,6C;w0AAK,+B;00AAL,yB;00AAK,6C;40AAK,+B;80AAL,yB;80AAK,6C;g1AAK,+B;k1AAL,yB;k1AAK,6C;o1AAK,+B;s1AAL,yB;s1AAK,6C;w1AAK,+B;01AAL,yB;01AAK,6C;41AAK,+B;81AAL,yB;81AAK,6C;g2AAK,+B;k2AAL,yB;k2AAK,6C;o2AAK,+B;s2AAL,yB;s2AAK,6C;w2AAK,+B;02AAL,yB;02AAK,6C;42AAK,+B;82AAL,yB;82AAK,6C;g3AAK,+B;k3AAL,yB;k3AAK,6C;o3AAK,+B;s3AAL,yB;s3AAK,6C;w3AAK,+B;03AAL,yB;03AAK,6C;43AAK,+B;83AAL,yB;83AAK,6C;g4AAK,+B;k4AAL,yB;k4AAK,6C;o4AAK,+B;s4AAL,yB;s4AAK,6C;w4AAK,+B;04AAL,yB;04AAK,6C;44AAK,+B;84AAL,yB;84AAK,6C;g5AAK,+B;k5AAL,yB;k5AAK,6C;o5AAK,+B;s5AAL,yB;s5AAK,6C;w5AAK,+B;05AAL,yB;05AAK,6C;45AAK,+B;85AAL,yB;85AAK,6C;g6AAK,+B;k6AAL,yB;k6AAK,6C;o6AAK,+B;s6AAL,yB;s6AAK,6C;w6AAK,+B;06AAL,yB;06AAK,6C;46AAK,+B;86AAL,yB;86AAK,6C;g7AAK,+B;k7AAL,yB;k7AAK,6C;o7AAK,+B;s7AAL,yB;s7AAK,6C;w7AAK,+B;07AAL,yB;07AAK,6C;47AAK,+B;87AAL,yB;87AAK,6C;g8AAK,+B;k8AAL,yB;k8AAK,6C;o8AAK,+B;s8AAL,yB;s8AAK,6C;w8AAK,+B;08AAL,yB;08AAK,6C;48AAK,+B;88AAL,yB;88AAK,6C;g9AAK,+B;k9AAL,yB;k9AAK,6C;o9AAK,+B;s9AAL,yB;s9AAK,6C;w9AAK,+B;09AAL,yB;09AAK,6C;49AAK,+B;89AAL,yB;89AAK,6C;g+AAK,+B;k+AAL,yB;k+AAK,6C;o+AAK,+B;s+AAL,yB;s+AAK,6C;w+AAK,+B;0+AAL,yB;0+AAK,6C;4+AAK,+B;8+AAL,yB;8+AAK,6C;g/AAK,+B;k/AAL,yB;k/AAK,6C;o/AAK,+B;s/AAL,yB;s/AAK,6C;w/AAK,+B;0/AAL,yB;0/AAK,6C;4/AAK,+B;8/AAL,yB;8/AAK,6C;gAAK,+B;kAAL,yB;kAAK,6C;oAAK,+B;sAAL,yB;sAAK,6C;wAAK,+B;0AAL,yB;0AAK,6C;4AAK,+B;8AAL,yB;8AAK,6C;gBAAK,+B;kBAAL,yB;kBAAK,6C;oBAAK,+B;sBAAL,yB;sBAAK,6C;wBAAK,+B;0BAAL,yB;0BAAK,6C;4BAAK,+B;8BAAL,yB;8BAAK,6C;gCAAK,+B;kCAAL,yB;kCAAK,6C;oCAAK,+B;sCAAL,yB;sCAAK,6C;wCAAK,+B;0CAAL,yB;0CAAK,6C;4CAAK,+B;8CAAL,yB;8CAAK,6C;gDAAK,+B;kDAAL,yB;kDAAK,6C;oDAAK,+B;sDAAL,yB;sDAAK,6C;wDAAK,+B;0DAAL,yB;0DAAK,6C;4DAAK,+B;8DAAL,yB;8DAAK,6C;gEAAK,+B;kEAAL,yB;kEAAK,6C;oEAAK,+B;sEAAL,yB;sEAAK,6C;wEAAK,+B;0EAAL,yB;0EAAK,6C;4EAAK,+B;8EAAL,yB;8EAAK,6C;gFAAK,+B;kFAAL,yB;kFAAK,6C;oFAAK,+B;sFAAL,yB;sFAAK,6C;wFAAK,+B;0FAAL,yB;0FAAK,6C;4FAAK,+B;8FAAL,yB;8FAAK,6C;gGAAK,+B;kGAAL,yB;kGAAK,6C;oGAAK,+B;sGAAL,yB;sGAAK,6C;wGAAK,+B;0GAAL,yB;0GAAK,6C;4GAAK,+B;8GAAL,yB;8GAAK,6C;gHAAK,+B;kHAAL,yB;kHAAK,6C;oHAAK,+B;sHAAL,yB;sHAAK,6C;wHAAK,+B;0HAAL,yB;0HAAK,6C;4HAAK,+B;8HAAL,yB;8HAAK,6C;gIAAK,+B;kIAAL,yB;kIAAK,6C;oIAAK,+B;sIAAL,yB;sIAAK,6C;wIAAK,+B;0IAAL,yB;0IAAK,6C;4IAAK,+B;8IAAL,yB;8IAAK,6C;gJAAK,+B;kJAAL,yB;kJAAK,6C;oJAAK,+B;sJAAL,yB;sJAAK,6C;wJAAK,+B;0JAAL,yB;0JAAK,6C;4JAAK,+B;8JAAL,yB;8JAAK,6C;gKAAK,+B;kKAAL,yB;kKAAK,6C;oKAAK,+B;sKAAL,yB;sKAAK,6C;wKAAK,+B;0KAAL,yB;0KAAK,6C;4KAAK,+B;8KAAL,yB;8KAAK,6C;gLAAK,+B;kLAAL,yB;kLAAK,6C;oLAAK,+B;sLAAL,yB;sLAAK,6C;wLAAK,+B;0LAAL,yB;0LAAK,6C;4LAAK,+B;8LAAL,yB;8LAAK,6C;gMAAK,+B;kMAAL,yB;kMAAK,6C;oMAAK,+B;sMAAL,yB;sMAAK,6C;wMAAK,+B;0MAAL,yB;0MAAK,6C;4MAAK,+B;8MAAL,yB;8MAAK,6C;gNAAK,+B;kNAAL,yB;kNAAK,6C;oNAAK,+B;sNAAL,yB;sNAAK,6C;wNAAK,+B;0NAAL,yB;0NAAK,6C;4NAAK,+B;8NAAL,yB;8NAAK,6C;gOAAK,+B;kOAAL,yB;kOAAK,6C;oOAAK,+B;sOAAL,yB;sOAAK,6C;wOAAK,+B;0OAAL,yB;0OAAK,6C;4OAAK,+B;8OAAL,yB;8OAAK,6C;gPAAK,+B;kPAAL,yB;kPAAK,6C;oPAAK,+B;sPAAL,yB;sPAAK,6C;wPAAK,+B;0PAAL,yB;0PAAK,6C;4PAAK,+B;8PAAL,yB;8PAAK,6C;gQAAK,+B;kQAAL,yB;kQAAK,6C;oQAAK,+B;sQAAL,yB;sQAAK,6C;wQAAK,+B;0QAAL,yB;0QAAK,6C;4QAAK,+B;8QAAL,yB;8QAAK,6C;gRAAK,+B;kRAAL,yB;kRAAK,6C;oRAAK,+B;sRAAL,yB;sRAAK,6C;wRAAK,+B;0RAAL,yB;0RAAK,6C;4RAAK,+B;8RAAL,yB;8RAAK,6C;gSAAK,+B;kSAAL,yB;kSAAK,6C;oSAAK,+B;sSAAL,yB;sSAAK,6C;wSAAK,+B;0SAAL,yB;0SAAK,6C;4SAAK,+B;8SAAL,yB;8SAAK,6C;gTAAK,+B;kTAAL,yB;kTAAK,6C;oTAAK,+B;sTAAL,yB;sTAAK,6C;wTAAK,+B;0TAAL,yB;0TAAK,6C;4TAAK,+B;8TAAL,yB;8TAAK,6C;gUAAK,+B;kUAAL,yB;kUAAK,6C;oUAAK,+B;sUAAL,yB;sUAAK,6C;wUAAK,+B;0UAAL,yB;0UAAK,6C;4UAAK,+B;8UAAL,yB;8UAAK,6C;gVAAK,+B;kVAAL,yB;kVAAK,6C;oVAAK,+B;sVAAL,yB;sVAAK,6C;wVAAK,+B;0VAAL,yB;0VAAK,6C;4VAAK,+B;8VAAL,yB;8VAAK,6C;gWAAK,+B;kWAAL,yB;kWAAK,6C;oWAAK,+B;sWAAL,yB;sWAAK,6C;wWAAK,+B;0WAAL,yB;0WAAK,6C;4WAAK,+B;8WAAL,yB;8WAAK,6C;gXAAK,+B;kXAAL,yB;kXAAK,6C;oXAAK,+B;sXAAL,yB;sXAAK,6C;wXAAK,+B;0XAAL,yB;0XAAK,6C;4XAAK,+B;8XAAL,yB;8XAAK,6C;gYAAK,+B;kYAAL,yB;kYAAK,6C;oYAAK,+B;sYAAL,yB;sYAAK,6C;wYAAK,+B;0YAAL,yB;0YAAK,6C;4YAAK,+B;8YAAL,yB;8YAAK,6C;gZAAK,+B;kZAAL,yB;kZAAK,6C;oZAAK,+B;sZAAL,yB;sZAAK,6C;wZAAK,+B;0ZAAL,yB;0ZAAK,6C;4ZAAK,+B;8ZAAL,yB;8ZAAK,6C;gaAAK,+B;kaAAL,yB;kaAAK,6C;oaAAK,+B;saAAL,yB;saAAK,6C;waAAK,+B;0aAAL,yB;0aAAK,6C;4aAAK,+B;8aAAL,yB;8aAAK,6C;gbAAK,+B;kbAAL,yB;kbAAK,6C;obAAK,+B;sbAAL,yB;sbAAK,6C;wbAAK,+B;0bAAL,yB;0bAAK,6C;4bAAK,+B;8bAAL,yB;8bAAK,6C;gcAAK,+B;kcAAL,yB;kcAAK,6C;ocAAK,+B;scAAL,yB;scAAK,6C;wcAAK,+B;0cAAL,yB;0cAAK,6C;4cAAK,+B;8cAAL,yB;8cAAK,6C;gdAAK,+B;kdAAL,yB;kdAAK,6C;odAAK,+B;sdAAL,yB;sdAAK,6C;wdAAK,+B;0dAAL,yB;0dAAK,6C;4dAAK,+B;8dAAL,yB;8dAAK,6C;geAAK,+B;keAAL,yB;keAAK,6C;oeAAK,+B;seAAL,yB;seAAK,6C;weAAK,+B;0eAAL,yB;0eAAK,6C;4eAAK,+B;8eAAL,yB;8eAAK,6C;gfAAK,+B;kfAAL,yB;kfAAK,6C;ofAAK,+B;sfAAL,yB;sfAAK,6C;wfAAK,+B;0fAAL,yB;0fAAK,6C;4fAAK,+B;8fAAL,yB;8fAAK,6C;ggAAK,+B;kgAAL,yB;kgAAK,6C;ogAAK,+B;sgAAL,yB;sgAAK,6C;wgAAK,+B;0gAAL,yB;0gAAK,6C;4gAAK,+B;8gAAL,yB;8gAAK,6C;ghAAK,+B;khAAL,yB;khAAK,6C;ohAAK,+B;shAAL,yB;shAAK,6C;whAAK,+B;0hAAL,yB;0hAAK,6C;4hAAK,+B;8hAAL,yB;8hAAK,6C;giAAK,+B;kiAAL,yB;kiAAK,6C;oiAAK,+B;siAAL,yB;siAAK,6C;wiAAK,+B;0iAAL,yB;0iAAK,6C;4iAAK,+B;8iAAL,yB;8iAAK,6C;gjAAK,+B;kjAAL,yB;kjAAK,6C;ojAAK,+B;sjAAL,yB;sjAAK,6C;wjAAK,+B;0jAAL,yB;0jAAK,6C;4jAAK,+B;8jAAL,yB;8jAAK,6C;gkAAK,+B;kkAAL,yB;kkAAK,6C;okAAK,+B;skAAL,yB;skAAK,6C;wkAAK,+B;0kAAL,yB;0kAAK,6C;4kAAK,+B;8kAAL,yB;8kAAK,6C;glAAK,+B;klAAL,yB;klAAK,6C;olAAK,+B;slAAL,yB;slAAK,6C;wlAAK,+B;0lAAL,yB;0lAAK,6C;4lAAK,+B;8lAAL,yB;8lAAK,6C;gmAAK,+B;kmAAL,yB;kmAAK,6C;omAAK,+B;smAAL,yB;smAAK,6C;wmAAK,+B;0mAAL,yB;0mAAK,6C;4mAAK,+B;8mAAL,yB;8mAAK,6C;gnAAK,+B;knAAL,yB;knAAK,6C;onAAK,+B;snAAL,yB;snAAK,6C;wnAAK,+B;0nAAL,yB;0nAAK,6C;4nAAK,+B;8nAAL,yB;8nAAK,6C;goAAK,+B;koAAL,yB;koAAK,6C;ooAAK,+B;soAAL,yB;soAAK,6C;woAAK,+B;0oAAL,yB;0oAK,6C;4oAAK,+B;8oAAL,yB;8oAAK,6C;gpAAK,+B;kpAAL,yB;kpAAK,6C;opAAK,+B;spAAL,yB;spAAK,6C;wpAAK,+B;0pAAL,yB;0pAAK,6C;4pAAK,+B;8pAAL,yB;8pAAK,6C;gqAAK,+B;kqAAL,yB;kqAAK,6C;oqAAK,+B;sqAAL,yB;sqAAK,6C;wqAAK,+B;0qAAL,yB;0qAAK,6C;4qAAK,+B;8qAAL,yB;8qAAK,6C;grAAK,+B;krAAL,yB;krAAK,6C;orAAK,+B;srAAL,yB;srAAK,6C;wrAAK,+B;0rAAL,yB;0rAAK,6C;4rAAK,+B;8rAAL,yB;8rAAK,6C;gsAAK,+B;ksAAL,yB;ksAAK,6C;osAAK,+B;ssAAL,yB;ssAAK,6C;wsAAK,+B;0sAAL,yB;0sAAK,6C;4sAAK,+B;8sAAL,yB;8sAAK,6C;gtAAK,+B;ktAAL,yB;ktAAK,6C;otAAK,+B;stAAL,yB;stAAK,6C;wtAAK,+B;0tAAL,yB;0tAAK,6C;4tAAK,+B;8tAAL,yB;8tAAK,6C;guAAK,+B;kuAAL,yB;kuAAK,6C;ouAAK,+B;suAAL,yB;suAAK,6C;wuAAK,+B;0uAAL,yB;0uAAK,6C;4uAAK,+B;8uAAL,yB;8uAAK,6C;gvAAK,+B;kvAAL,yB;kvAAK,6C;ovAAK,+B;svAAL,yB;svAAK,6C;wvAAK,+B;0vAAL,yB;0vAAK,6C;4vAAK,+B;8vAAL,yB;8vAAK,6C;gwAAK,+B;kwAAL,yB;kwAAK,6C;owAAK,+B;swAAL,yB;swAAK,6C;wwAAK,+B;0wAAL,yB;0wAAK,6C;4wAAK,+B;8wAAL,yB;8wAAK,6C;gxAAK,+B;kxAAL,yB;kxAAK,6C;oxAAK,+B;sxAAL,yB;sxAAK,6C;wxAAK,+B;0xAAL,yB;0xAAK,6C;4xAAK,+B;8xAAL,yB;8xAAK,6C;gyAAK,+B;kyAAL,yB;kyAAK,6C;oyAAK,+B;syAAL,yB;syAAK,6C;wyAAK,+B;0yAAL,yB;0yAAK,6C;4yAAK,+B;8yAAL,yB;8yAAK,6C;gzAAK,+B;kzAAL,yB;kzAAK,6C;ozAAK,+B;szAAL,yB;szAAK,6C;wzAAK,+B;0zAAL,yB;0zAAK,6C;4zAAK,+B;8zAAL,yB;8zAAK,6C;g0AAK,+B;k0AAL,yB;k0AAK,6C;o0AAK,+B;s0AAL,yB;s0AAK,6C;w0AAK,+B;00AAL,yB;00AAK,6C;40AAK,+B;80AAL,yB;80AAK,6C;g1AAK,+B;k1AAL,yB;k1AAK,6C;o1AAK,+B;s1AAL,yB;s1AAK,6C;w1AAK,+B;01AAL,yB;01AAK,6C;41AAK,+B;81AAL,yB;81AAK,6C;g2AAK,+B;k2AAL,yB;k2AAK,6C;o2AAK,+B;s2AAL,yB;s2AAK,6C;w2AAK,+B;02AAL,yB;02AAK,6C;42AAK,+B;82AAL,yB;82AAK,6C;g3AAK,+B;k3AAL,yB;k3AAK,6C;o3AAK,+B;s3AAL,yB;s3AAK,6C;w3AAK,+B;03AAL,yB;03AAK,6C;43AAK,+B;83AAL,yB;83AAK,6C;g4AAK,+B;k4AAL,yB;k4AAK,6C;o4AAK,+B;s4AAL,yB;s4AAK,6C;w4AAK,+B;04AAL,yB;04AAK,6C;44AAK,+B;84AAL,yB;84AAK,6C;g5AAK,+B;k5AAL,yB;k5AAK,6C;o5AAK,+B;s5AAL,yB;s5AAK,6C;w5AAK,+B;05AAL,yB;05AAK,6C;45AAK,+B;85AAL,yB;85AAK,6C;g6AAK,+B;k6AAL,yB;k6AAK,6C;o6AAK,+B;s6AAL,yB;s6AAK,6C;w6AAK,+B;06AAL,yB;06AAK,6C;46AAK,+B;86AAL,yB;86AAK,6C;g7AAK,+B;k7AAL,yB;k7AAK,6C;o7AAK,+B;s7AAL,yB;s7AAK,6C;w7AAK,+B;07AAL,yB;07AAK,6C;47AAK,+B;87AAL,yB;87AAK,6C;g8AAK,+B;k8AAL,yB;k8AAK,6C;o8AAK,+B;s8AAL,yB;s8AAK,6C;w8AAK,+B;08AAL,yB;08AAK,6C;48AAK,+B;88AAL,yB;88AAK,6C;g9AAK,+B;k9AAL,yB;k9AAK,6C;o9AAK,+B;s9AAL,yB;s9AAK,6C;w9AAK,+B;09AAL,yB;09AAK,6C;49AAK,+B;89AAL,yB;89AAK,6C;g+AAK,+B;k+AAL,yB;k+AAK,6C;o+AAK,+B;s+AAL,yB;s+AAK,6C;w+AAK,+B;0+AAL,yB;0+AAK,6C;4+AAK,+B;8+AAL,yB;8+AAK,6C;g/AAK,+B;k/AAL,yB;k/AAK,6C;o/AAK,+B;s/AAL,yB;s/AAK,6C;w/AAK,+B;0/AAL,yB;0/AAK,6C;4/AAK,+B;8/AAL,yB;8/AAK,6C;gAAK,+B;kAAL,yB;kAAK,6C;oAAK,+B;sAAL,yB;sAAK,6C;wAAK,+B;0AAL,yB;0AAK,6C;4AAK,+B;8AAL,yB;8AAK,6C;gBAAK,+B;kBAAL,yB;kBAAK,6C;oBAAK,+B;sBAAL,yB;sBAAK,6C;wBAAK,+B;0BAAL,yB;0BAAK,6C;4BAAK,+B;8BAAL,yB;8BAAK,6C;gCAAK,+B;kCAAL,yB;kCAAK,6C;oCAAK,+B;sCAAL,yB;sCAAK,6C;wCAAK,+B;0CAAL,yB;0CAAK,6C;4CAAK,+B;8CAAL,yB;8CAAK,6C;gDAAK,+B;kDAAL,yB;kDAAK,6C;oDAAK,+B;sDAAL,yB;sDAAK,6C;wDAAK,+B;0DAAL,yB;0DAAK,6C;4DAAK,+B;8DAAL,yB;8DAAK,6C;gEAAK,+B;kEAAL,yB;kEAAK,6C;oEAAK,+B;sEAAL,yB;sEAAK,6C;wEAAK,+B;0EAAL,yB;0EAAK,6C;4EAAK,+B;8EAAL,yB;8EAAK,6C;gFAAK,+B;kFAAL,yB;kFAAK,6C;oFAAK,+B;sFAA

YAA6B,KAA7B,IAAqC,azGgB2B,WyGhBV,KzGgBU,C;MyGfzE,OAAO,I;K;6CAGX,wB;MAQI,oCAAa,4BAAmB,KAAnB,EAA0B,WAA1B,C;MAEb,gBAAS,azGK+E,WyGL9D,CzGK8D,EyGL3D,KzGK2D,CyGL/E,uBAA6B,kBAA7B,IAAqC,azGE2B,WyGFV,KzGEU,C;MyGDzE,OAAO,I;K;6CAGX,wB;MAUI,oCAAa,4BAAmB,KAAnB,EAA0B,WAA1B,C;MAEb,gBAAS,azGX+E,WyGW9D,CzGX8D,EyGW3D,KzGX2D,CyGW/E,GAAmC,eAAN,KAAM,CAAnC,GAAsD,azGdU,WyGcO,KzGdP,C;MyGezE,OAAO,I;K;6CAGX,wB;MAaI,oCAAa,4BAAmB,KAAnB,EAA0B,WAA1B,C;MAEb,gBAAS,azG9B+E,WyG8B9D,CzG9B8D,EyG8B3D,KzG9B2D,CyG8B/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGjBU,WyGiBO,KzGjBP,C;MyGkBzE,OAAO,I;K;6CAGX,wB;MAWI,oCAAa,4BAAmB,KAAnB,EAA0B,WAA1B,C;MAEb,gBAAS,azG/C+E,WyG+C9D,CzG/C8D,EyG+C3D,KzG/C2D,CyG+C/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGlBU,WyGkBO,KzGlBP,C;MyGmBzE,OAAO,I;K;6CAGX,wB;MACuD,2BAAO,KAAP,EAAc,KAAd,C;K;6CAEvD,wB;MAUI,oCAAa,4BAAmB,KAAnB,EAA0B,WAA1B,C;MAEb,eAAe,wBAAS,M;MACxB,gBAAc,IAAK,SzGnEqE,WyGmEpD,CzGnEoD,EyGmEjD,KzGnEiD,CyGmE1E,GAAkC,QAAlC,GAA6C,IAAK,SzGtEE,WyGsEO,KzGtEP,C;MyGuEzE,OAAO,I;K;gDAGX,qB;MAac,IAAI,YAAY,CAAhB,B,C;QACI,MAAM,gCAAY,0BAAuB,SAAvB,B,C;OAAlB,IAAI,aAAa,WAAjB,B,C;QACI,gBAAS,azG1F2E,WyG0F1D,CzG1F0D,EyG0FvD,SzG1FuD,C;;QyG4FpF,aAAU,WAAV,MAAuB,SAAvB,B,C;MACI,qCAAU,CAAV,C;;;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGpK+E,WyGoK9D,CzGpK8D,EyGoK3D,KzGpK2D,CyGoK/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGvKU,WyGuKO,KzGvKP,C;MyGwKzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGhL+E,WyGgL9D,CzGhL8D,EyGgL3D,KzGhL2D,CyGgL/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGnLU,WyGmLO,KzGnLP,C;MyGoLzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGxM+E,WyGwM9D,CzGxM8D,EyGwM3D,KzGxM2D,CyGwM/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azG3MU,WyG2MO,KzG3MP,C;MyG4MzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGpO+E,WyGoO9D,CzGpO8D,EyGoO3D,KzGpO2D,CyGoO/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGvOU,WyGuOO,KzGvOP,C;MyGwOzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGhQ+E,WyGgQ9D,CzGhQ8D,EyGgQ3D,KzGhQ2D,CyGgQ/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGnQU,WyGmQO,KzGnQP,C;MyGoQzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azG5R+E,WyG4R9D,CzG5R8D,EyG4R3D,KzG5R2D,CyG4R/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azG/RU,WyG+RO,KzG/RP,C;MyGgSzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGxS+E,WyGwS9D,CzGxS8D,EyGwS3D,KzGxS2D,CyGwS/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azG3SU,WyG2SO,KzG3SP,C;MyG4SzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGpU+E,WyGoU9D,CzGpU8D,EyGoU3D,KzGpU2D,CyGoU/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGvUU,WyGuUO,KzGvUP,C;MyGwUzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGhW+E,WyGgW9D,CzGhW8D,EyGgW3D,KzGhW2D,CyGgW/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGnWU,WyGmWO,KzGnWP,C;MyGoWzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azG5X+E,WyG4X9D,CzG5X8D,EyG4X3D,KzG5X2D,CyG4X/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azG/XU,WyG+XO,KzG/XP,C;MyGgYzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGxZ+E,WyGwZ9D,CzGxZ8D,EyGwZ3D,KzGxZ2D,CyGwZ/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azG3ZU,WyG2ZO,KzG3ZP,C;MyG4ZzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGpb+E,WyGob9D,CzGpb8D,EyGob3D,KzGpb2D,CyGob/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGvbU,WyGubO,KzGvbP,C;MyGwbzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGhd+E,WyGgd9D,CzGhd8D,EyGgd3D,KzGhd2D,CyGgd/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGndU,WyGmdO,KzGndP,C;MyGodzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azG5e+E,WyG4e9D,CzG5e8D,EyG4e3D,KzG5e2D,CyG4e/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azG/eU,WyG+eO,KzG/eP,C;MyGgfzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGxgB+E,WyGwgB9D,CzGxgB8D,EyGwgB3D,KzGxgB2D,CyGwgB/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azG3gBU,WyG2gBO,KzG3gBP,C;MyG4gBzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGpiB+E,WyGoiB9D,CzGpiB8D,EyGoiB3D,KzGpiB2D,CyGoiB/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGviBU,WyGuiBO,KzGviBP,C;MyGwiBzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGhkB+E,WyGgkB9D,CzGhkB8D,EyGgkB3D,KzGhkB2D,CyGgkB/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGnkBU,WyGmkBO,KzGnkBP,C;MyGokBzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azG5lB+E,WyG4lB9D,CzG5lB8D,EyG4lB3D,KzG5lB2D,CyG4lB/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azG/lBU,WyG+lBO,KzG/lBP,C;MyGgmBzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGxnB+E,WyGwnB9D,CzGxnB8D,EyGwnB3D,KzGxnB2D,CyGwnB/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azG3nBU,WyG2nBO,KzG3nBP,C;MyG4nBzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGppB+E,WyGopB9D,CzGppB8D,EyGopB3D,KzGppB2D,CyGopB/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGvpBU,WyGupBO,KzGvpBP,C;MyGwpBzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGhrB+E,WyGgrB9D,CzGhrB8D,EyGgrB3D,KzGhrB2D,CyGgrB/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGnrBU,WyGmrBO,KzGnrBP,C;MyGorBzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azG5sB+E,WyG4sB9D,CzG5sB8D,EyG4sB3D,KzG5sB2D,CyG4sB/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azG/sBU,WyG+sBO,KzG/sBP,C;MyGgtBzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGxuB+E,WyGwuB9D,CzGxuB8D,EyGwuB3D,KzGxuB2D,CyGwuB/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azG3uBU,WyG2uBO,KzG3uBP,C;MyG4uBzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGpwB+E,WyGowB9D,CzGpwB8D,EyGowB3D,KzGpwB2D,CyGowB/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGvwBU,WyGuwBO,KzGvwBP,C;MyGwwBzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGhyB+E,WyGgyB9D,CzGhyB8D,EyGgyB3D,KzGhyB2D,CyGgyB/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGnyBU,WyGmyBO,KzGnyBP,C;MyGoyBzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azG5zB+E,WyG4zB9D,CzG5zB8D,EyG4zB3D,KzG5zB2D,CyG4zB/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azG/zBU,WyG+zBO,KzG/zBP,C;MyGg0BzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGx1B+E,WyGw1B9D,CzGx1B8D,EyGw1B3D,KzGx1B2D,CyGw1B/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azG31BU,WyG21BO,KzG31BP,C;MyG41BzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGp3B+E,WyGo3B9D,CzGp3B8D,EyGo3B3D,KzGp3B2D,CyGo3B/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGv3BU,WyGu3BO,KzGv3BP,C;MyGw3BzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGh5B+E,WyGg5B9D,CzGh5B8D,EyGg5B3D,KzGh5B2D,CyGg5B/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGn5BU,WyGm5BO,KzGn5BP,C;MyGo5BzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azG56B+E,WyG46B9D,CzG56B8D,EyG46B3D,KzG56B2D,CyG46B/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azG/6BU,WyG+6BO,KzG/6BP,C;MyGg7BzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGx8B+E,WyGw8B9D,CzGx8B8D,EyGw8B3D,KzGx8B2D,CyGw8B/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azG38BU,WyG28BO,KzG38BP,C;MyG48BzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGp+B+E,WyGo+B9D,CzGp+B8D,EyGo+B3D,KzGp+B2D,CyGo+B/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGv+BU,WyGu+BO,KzGv+BP,C;MyGw+BzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGhgC+E,WyGggC9D,CzGhgC8D,EyGggC3D,KzGhgC2D,CyGggC/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGngCU,WyGmgCO,KzGngCP,C;MyGogCzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azG5hC+E,WyG4hC9D,CzG5hC8D,EyG4hC3D,KzG5hC2D,CyG4hC/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azG/hCU,WyG+hCO,KzG/hCP,C;MyGgiCzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGxjC+E,WyGwjC9D,CzGxjC8D,EyGwjC3D,KzGxjC2D,CyGwjC/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azG3jCU,WyG2jCO,KzG3jCP,C;MyG4jCzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGplC+E,WyGolC9D,CzGplC8D,EyGolC3D,KzGplC2D,CyGolC/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGvlCU,WyGulCO,KzGvlCP,C;MyGwlCzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGhnC+E,WyGgnC9D,CzGhnC8D,EyGgnC3D,KzGhnC2D,CyGgnC/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGnnCU,WyGmnCO,KzGnnCP,C;MyGonCzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azG5oC+E,WyG4oC9D,CzG5oC8D,EyG4oC3D,KzG5oC2D,CyG4oC/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azG/oCU,WyG+oCO,KzG/oCP,C;MyGgpCzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGxqC+E,WyGwqC9D,CzGxqC8D,EyGwqC3D,KzGxqC2D,CyGwqC/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azG3qCU,WyG2qCO,KzG3qCP,C;MyG4qCzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGpsC+E,WyGosC9D,CzGpsC8D,EyGosC3D,KzGpsC2D,CyGosC/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGvsCU,WyGusCO,KzGvsCP,C;MyGwsCzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGhuC+E,WyGguC9D,CzGhuC8D,EyGguC3D,KzGhuC2D,CyGguC/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGnuCU,WyGmuCO,KzGnuCP,C;MyGouCzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azG5vC+E,WyG4vC9D,CzG5vC8D,EyG4vC3D,KzG5vC2D,CyG4vC/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azG/vCU,WyG+vCO,KzG/vCP,C;MyGgwCzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGxxC+E,WyGwxC9D,CzGxxC8D,EyGwxC3D,KzGxxC2D,CyGwxC/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azG3xCU,WyG2xCO,KzG3xCP,C;MyG4xCzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGpzC+E,WyGozC9D,CzGpzC8D,EyGozC3D,KzGpzC2D,CyGozC/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGvzCU,WyGuzCO,KzGvzCP,C;MyGwzCzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGh1C+E,WyGg1C9D,CzGh1C8D,EyGg1C3D,KzGh1C2D,CyGg1C/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGn1CU,WyGm1CO,KzGn1CP,C;MyGo1CzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azG52C+E,WyG42C9D,CzG52C8D,EyG42C3D,KzG52C2D,CyG42C/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azG/2CU,WyG+2CO,KzG/2CP,C;MyGg3CzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGx4C+E,WyGw4C9D,CzGx4C8D,EyGw4C3D,KzGx4C2D,CyGw4C/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azG34CU,WyG24CO,KzG34CP,C;MyG44CzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGp6C+E,WyGo6C9D,CzGp6C8D,EyGo6C3D,KzGp6C2D,CyGo6C/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGv6CU,WyGu6CO,KzGv6CP,C;MyGw6CzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGh8C+E,WyGg8C9D,CzGh8C8D,EyGg8C3D,KzGh8C2D,CyGg8C/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGn8CU,WyGm8CO,KzGn8CP,C;MyGo8CzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azG59C+E,WyG49C9D,CzG59C8D,EyG49C3D,KzG59C2D,CyG49C/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azG/9CU,WyG+9CO,KzG/9CP,C;MyGg+CzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGx/C+E,WyGw/C9D,CzGx/C8D,EyGw/C3D,KzGx/C2D,CyGw/C/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azG3/CU,WyG2/CO,KzG3/CP,C;MyG4/CzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGphD+E,WyGohD9D,CzGphD8D,EyGohD3D,KzGphD2D,CyGohD/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGvhDU,WyGuhDO,KzGvhDP,C;MyGwhDzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGhjD+E,WyGgjD9D,CzGhjD8D,EyGgjD3D,KzGhjD2D,CyGgjD/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGnjDU,WyGmjDO,KzGnjDP,C;MyGojDzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azG5kD+E,WyG4kD9D,CzG5kD8D,EyG4kD3D,KzG5kD2D,CyG4kD/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azG/kDU,WyG+kDO,KzG/kDP,C;MyGglDzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGxmD+E,WyGwmD9D,CzGxmD8D,EyGwmD3D,KzGxmD2D,CyGwmD/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azG3mDU,WyG2mDO,KzG3mDP,C;MyG4mDzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGpoD+E,WyGooD9D,CzGpoD8D,EyGooD3D,KzGpoD2D,CyGooD/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGvoDU,WyGuoDO,KzGvoDP,C;MyGwoDzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGhqD+E,WyGgqD9D,CzGhqD8D,EyGgqD3D,KzGhqD2D,CyGgqD/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGnqDU,WyGmqDO,KzGnqDP,C;MyGoqDzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azG5rD+E,WyG4rD9D,CzG5rD8D,EyG4rD3D,KzG5rD2D,CyG4rD/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azG/rDU,WyG+rDO,KzG/rDP,C;MyGgsDzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGxtD+E,WyGwtD9D,CzGxtD8D,EyGwtD3D,KzGxtD2D,CyGwtD/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azG3tDU,WyG2tDO,KzG3tDP,C;MyG4tDzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGpvD+E,WyGovD9D,CzGpvD8D,EyGovD3D,KzGpvD2D,CyGovD/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGvvDU,WyGuvDO,KzGvvDP,C;MyGwvDzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGhxD+E,WyGgxD9D,CzGhxD8D,EyGgxD3D,KzGhxD2D,CyGgxD/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGnxDU,WyGmxDO,KzGnxDP,C;MyGoxDzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azG5yD+E,WyG4yD9D,CzG5yD8D,EyG4yD3D,KzG5yD2D,CyG4yD/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azG/yDU,WyG+yDO,KzG/yDP,C;MyGgzDzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGx0D+E,WyGw0D9D,CzGx0D8D,EyGw0D3D,KzGx0D2D,CyGw0D/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azG30DU,WyG20DO,KzG30DP,C;MyG40DzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGp2D+E,WyGo2D9D,CzGp2D8D,EyGo2D3D,KzGp2D2D,CyGo2D/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGv2DU,WyGu2DO,KzGv2DP,C;MyGw2DzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGh4D+E,WyGg4D9D,CzGh4D8D,EyGg4D3D,KzGh4D2D,CyGg4D/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGn4DU,WyGm4DO,KzGn4DP,C;MyGo4DzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azG56D+E,WyG46D9D,CzG56D8D,EyG46D3D,KzG56D2D,CyG46D/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azG/6DU,WyG+6DO,KzG/6DP,C;MyGg7DzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGx8D+E,WyGw8D9D,CzGx8D8D,EyGw8D3D,KzGx8D2D,CyGw8D/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azG38DU,WyG28DO,KzG38DP,C;MyG48DzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGp+D+E,WyGo+D9D,CzGp+D8D,EyGo+D3D,KzGp+D2D,CyGo+D/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGv+DU,WyGu+DO,KzGv+DP,C;MyGw+DzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGhgE+E,WyGggE9D,CzGhgE8D,EyGggE3D,KzGhgE2D,CyGggE/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGngEU,WyGmgEO,KzGngEP,C;MyGogEzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azG5hE+E,WyG4hE9D,CzG5hE8D,EyG4hE3D,KzG5hE2D,CyG4hE/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azG/hEU,WyG+hEO,KzG/hEP,C;MyGgiEzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGxjE+E,WyGwjE9D,CzGxjE8D,EyGwjE3D,KzGxjE2D,CyGwjE/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azG3jEU,WyG2jEO,KzG3jEP,C;MyG4jEzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGplE+E,WyGolE9D,CzGplE8D,EyGolE3D,KzGplE2D,CyGolE/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGvlEU,WyGulEO,KzGvlEP,C;MyGwlEzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGhnE+E,WyGgnE9D,CzGhnE8D,EyGgnE3D,KzGhnE2D,CyGgnE/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGnnEU,WyGmnEO,KzGnnEP,C;MyGonEzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azG5oE+E,WyG4oE9D,CzG5oE8D,EyG4oE3D,KzG5oE2D,CyG4oE/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azG/oEU,WyG+oEO,KzG/oEP,C;MyGgpEzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGxqE+E,WyGwqE9D,CzGxqE8D,EyGwqE3D,KzGxqE2D,CyGwqE/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azG3qEU,WyG2qEO,KzG3qEP,C;MyG4qEzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGpsE+E,WyGosE9D,CzGpsE8D,EyGosE3D,KzGpsE2D,CyGosE/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGvsEU,WyGusEO,KzGvsEP,C;MyGwsEzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGhuE+E,WyGguE9D,CzGhuE8D,EyGguE3D,KzGhuE2D,CyGguE/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGnuEU,WyGmuEO,KzGnuEP,C;MyGouEzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azG5vE+E,WyG4vE9D,CzG5vE8D,EyG4vE3D,KzG5vE2D,CyG4vE/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azG/vEU,WyG+vEO,KzG/vEP,C;MyGgwEzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGxxE+E,WyGwxE9D,CzGxxE8D,EyGwxE3D,KzGxxE2D,CyGwxE/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azG3xEU,WyG2xEO,KzG3xEP,C;MyG4xEzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGpzE+E,WyGozE9D,CzGpzE8D,EyGozE3D,KzGpzE2D,CyGozE/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGvzEU,WyGuzEO,KzGvzEP,C;MyGwzEzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azGh1E+E,WyGg1E9D,CzGh1E8D,EyGg1E3D,KzGh1E2D,CyGg1E/E,GAAmC,SAAN,KAAM,CAAnC,GAAsD,azGn1EU,WyGm1EO,KzGn1EP,C;MyGo1EzE,OAAO,I;K;gDAGX,sB;MAAQ,oCAAa,4BAAmB,UAAnB,EAA+B,WAA/B,B,C;MAEb,gBAAS,azG52E+E,WyG42E9D,CzG52E8D,EyG42E3D,KzG52E2D,CyG42E/E,G

AA/B,C;K;qFAET,yD;MAiBI,OAAA,SAAK,qBAAY,KAAZ,EAAmB,KAAnB,EAA0B,UAA1B,EAAsC,QAAtC,
C;K;uFAET,yD;MAiBI,OAAA,SAAK,qBAAY,KAAZ,EAAmB,KAAnB,EAA0B,UAA1B,EAAsC,QAAtC,C;K;qF
1GhsBT,qB;MAMoD,OA6BW,8BAAY,cAfrB,YAAY,CAAZ,C;K;yFAZtD,qB;MAYsD,OAeS,8BAAY,cAfrB,YA
AY,CAAZ,C;K;iFAEtD,qB;MAaoD,OAAW,8BAAY,c;K;qFAE3E,yB;MAAA,uD;MAAA,4B;QAMoD,+B;O;KA
NpD,C;IAQA,kC;MAYI,gBAiB2D,8BAAY,c;MAhBvE,OAAW,SAAU,OAAV,GAAmB,CAAvB,GAA0B,SAA1B
,GAAoC,qBAAU,CAAV,C;K;iFAG/C,qB;MAaoD,OAAW,8BAAY,c;K;IAE3E,kC;MAU+C,mC;K;IAE/C,oC;MA
GoD,QAAQ,cAAA,sCAAK,mBAAL,EAAyB,sCAAK,mBAA9B,CAAR,6B;K;IAEpD,mC;MAGmD,QAAQ,cAA
A,sCAAK,kBAAL,EAAwB,sCAAK,kBAA7B,CAAR,6B;K;IAO/C,iC;MAAQ,OAAA,oCAAa,iBAAQ,2BAAR,C;
K;IAEzB,8B;MAOI,IAAI,YAAO,GAAX,C;QACI,OAAO,I;OAEX,OAAO,gCAA8C,mD;K;IAGzD,6B;MAUI,IAA
I,CAAQ,kBAAK,GAAL,CAAR,iCAAoB,CAAQ,kBAAK,EAAL,CAAR,6BAAxB,C;QACI,OAAO,I;OAEX,IAAI,
YAAO,GAAX,C;QACI,OAAO,K;OAEX,OAAO,uB;K;IAGX,oC;MAUI,IAAI,CAAQ,kBAAK,GAAL,CAAR,iCA
AoB,CAAQ,kBAAK,EAAL,CAAR,6BAApB,IAAwC,CAAQ,kBAAK,EAAL,CAAR,6BAA5C,C;QACI,OAAO,I;
OAEX,IAAI,YAAO,GAAX,C;QACI,OAAO,K;OAGX,OAAO,0BAAiB,uB;K;IAG5B,4B;MASI,IAAI,CAAQ,kBA
AK,EAAL,CAAR,6BAAJ,C;QACI,OAAO,I;OAEX,IAAI,YAAO,GAAX,C;QACI,OAAO,K;OAEX,OAAO,sB;K;I
AGX,gC;MAUI,IAAI,CAAQ,kBAAK,EAAL,CAAR,6BAAJ,C;QACI,OAAO,I;OAEX,IAAI,YAAO,GAAX,C;QA
CI,OAAO,K;OAEX,OAAO,0B;K;IAGX,gC;MAUI,IAAI,CAAQ,kBAAK,GAAL,CAAR,6BAAJ,C;QACI,OAAO,I
;OAEX,IAAI,YAAO,GAAX,C;QACI,OAAO,K;OAEX,OAAO,0B;K;IAGX,gC;MASI,IAAI,YAAO,GAAX,C;QA
CI,OAAO,K;OAEX,OAAO,gCAAoD,yD;K;IAG/D,iC;MAUI,OAAO,aAAQ,EAAR,IAAoB,CAAQ,mBAAU,GAA
V,CAAR,6B;K;IAG/B,iC;MAMiD,kC;K;iF2GtPjD,yB;MAAA,+C;MAAA,4B;QAMuD,OAAK,UAAL,SAAK,C;O
;KAN5D,C;IAQA,gC;MAMiD,4B;MAAA,S;QAAgB,cAAA,S1G4LC,c0G5LD,EAAoB,MAApB,C;OAAhB,W;K;I
AEjD,6B;MAI0C,Q;MAAA,yDAAkB,kBAAkB,SAAlB,C;K;IAE5D,oC;MAKoD,Q;MAAA,yCAAa,KAAb,oBAA
uB,kBAAkB,SAAlB,C;K;IAG3E,8B;MAI4C,Q;MAAA,0DAAmB,kBAAkB,SAAlB,C;K;IAE/D,qC;MAKsD,Q;M
AAA,0CAAc,KAAd,oBAAwB,kBAAkB,SAAlB,C;K;IAE9E,0B;MAIwC,Q;MAAA,wDAAiB,kBAAkB,SAAlB,C;
K;IAEzD,mC;MAKkD,Q;MAAA,wCAAY,KAAZ,oBAAsB,kBAAkB,SAAlB,C;K;IAExE,2B;MAI0C,Q;MAAA,y
DAAkB,kBAAkB,SAAlB,C;K;IAE5D,oC;MAKoD,Q;MAAA,yCAAa,KAAb,oBAAuB,kBAAkB,SAAlB,C;K;IAE
3E,6B;MAIyF,kBAA1C,CAAO,S;MAClD,IAAO,QpHeD,WoHfC,CAAH,IAAc,CAAM,kBAApB,KpHeE,WoHf6
B,KAAM,GAAN,IAAkB,kBAAjD,CAAJ,C;QACI,4B;MAFsC,OpHiBnC,W;K;6EoHZX,yB;MAAA,6C;MAAA,4
B;QAKmD,0B;O;KALnD,C;IAOA,mC;MAIgG,kBAA1C,CAAO,S;MAAR,OACjD,EAAK,QpH2BgB,WoH3BhB,
CAAH,IAAc,CAAM,kBAApB,KpH2BmB,WoH3BY,KAAM,GAAN,IAAkB,kBAAjD,CAAF,CpH2BO,GAAqB,
WAArB,GAA+B,I;K;yFoHxB1C,yB;MAAA,yD;MAAA,4B;QAK0D,gC;O;KAL1D,C;iFAOA,yB;MAAA,6C;MA
AA,mC;QAO6D,OAAa,SAAR,SAAQ,EAAS,KAAT,C;O;KAP1E,C;iFASA,yB;MAAA,6C;MAAA,mC;QAO8D,O
AAa,SAAR,SAAQ,EAAS,KAAT,C;O;KAP3E,C;IASA,sC;MAMqD,OAAA,SAAY,UAAS,WAAW,KAAX,CAAT
,C;K;IAEjE,4B;MAAsC,QAAM,S1G4EsB,c0G5E5B,C;aAClC,K;aAAA,M;aAAA,M;UADkC,OACT,I;gBADS,O
AE1B,K;;K;IAGZ,2B;MAKI,IAAI,EAAU,CAAV,sBAAa,EAAb,CAAJ,C;QACI,MAAM,gCAAyB,WAAQ,KAAR
,kCAAzB,C;OAEV,OAAO,K;K;IAGX,8B;MAA2D,Q;MACvD,YAAQ,EAAR,IAAe,QAAQ,EAAvB,C;QAA8B,c
AAO,E;WACrC,YAAQ,EAAR,IAAe,QAAQ,EAAvB,C;QAA8B,cAAO,EAAP,GAAa,EAAb,I;WAC9B,YAAQ,E
AAR,IAAe,QAAQ,GAAvB,C;QAA8B,cAAO,EAAP,GAAa,EAAb,I;WAC9B,WAAO,GAAP,C;QAAmB,S;WACn
B,YAAQ,KAAR,IAAoB,QAAQ,KAA5B,C;QAAwC,cAAO,KAAP,GAAkB,EAAlB,I;WACxC,YAAQ,KAAR,IA
AoB,QAAQ,KAA5B,C;QAAwC,cAAO,KAAP,GAAkB,EAAlB,I;;QAC3B,sBAAL,IAAK,C;MpH9CN,a;MoHuCg
D,OAQ/C,WAAJ,GAAiB,EAAjB,GAAyB,E;K;IClJG,2C;MAHpC,e;MAGqC,kB;MAHrC,iB;MAAA,uB;K;IAAA,
kC;MAAA,qC;O;MAII,qEACY,GADZ,C;MAEA,iEAIU,GAJV,C;K;;IAFA,+C;MAAA,wB;MAAA,uC;K;;IAEA,6
C;MAAA,wB;MAAA,qC;K;;IANJ,8B;MAAA,mF;K;;IAAA,mC;MAAA,a;aAAA,a;UAAA,4C;aAAA,W;UAAA,0
C;gBAAA,4D;;K;;IAawG,4B;MAAE,OAAA,EAAG,M;K;IAA7G,qC;MAAqE,iCAAa,EAAb,EAA0B,OAA1B,0B
AAmC,cAAnC,C;K;IAQlC,2B;MAAC,kB;K;;sCALpC,Y;MAKoC,iB;K;wCALpC,iB;MAAA,sBAKoC,qCALpC,C
;K;oCAAA,Y;MAAA,OAKoC,iDALpC,M;K;oCAAA,Y;MAAA,c;MAKoC,sD;MALpC,a;K;kCAAA,iB;MAAA,2I
AKoC,sCALpC,G;K;IAqB0B,iC;MA8PtB,6B;MArPA,eACoC,O;MACpC,eACsD,QAAR,OAAQ,C;MACtD,uBAA
oC,WAAO,OAAP,EAAwB,QAAR,OAAQ,EAAQ,IAAR,CAAxB,C;MACpC,6BAA2C,I;MAI3C,oCAAkD,I;K;0C
AHlD,Y;MACI,Q;MAAA,U;MAAA,gD;QAAA,a;;QAA8D,gBAAvC,WAAO,YAAP,EAAwB,QAAR,YAAQ,EAA

Q,IAAR,CAAxB,C;QAA8C,6BrHmCnE,S;QqHnCF,SrHoCG,S;;MqHpCH,a;K;iDAGJ,Y;MACI,Q;MAAA,U;MA
AA,uD;QAAA,a;;QrHVG,gB;QqHWC,IAAY,aAAR,YAAQ,EAAW,EAAX,CAAR,IAAmC,WAAR,YAAQ,EAAS
,EAAT,CAAvC,C;UAAA,eACI,oB;;UAEA,OAAO,WAAO,MAA2B,UAAf,YAAR,YAAQ,qBAAU,EAAV,EAAe,
qBAAQ,EAAR,EAA3B,MAAP,EAA2D,QAAR,YAAQ,EAAQ,IAAR,CAA3D,C;QACb,4B;QAAO,oCrH0BP,S;Q
qH/BF,SrHgCG,S;;MqHhCH,a;K;sCAQJ,iB;MAEkB,MAAd,oBAAc,C;MACd,YAAY,oBAAc,MAAK,KAAM,W
AAX,C;MAC1B,OAAO,iBAAiB,KAAM,MAAN,KAAe,CAAhC,IAAqC,oBAAc,UAAd,KAA2B,KAAM,O;K;8C
AGjF,iB;MAEkB,MAAd,oBAAc,C;MACd,OAAO,oBAAc,MAAK,KAAM,WAAX,C;K;wCAGzB,wB;MAGI,IAA
I,QAAQ,CAAR,IAAa,QAAQ,KAAM,OAA/B,C;QACI,MAAM,8BAA0B,0BAAuB,KAAvB,wBAA8C,KAAM,OA
A9E,C;OAEV,cAAc,0B;MACd,oBAAoB,K;MACpB,OAAO,OAAQ,MAAK,KAAM,WAAX,C;K;mCAGnB,6B;M
AS4C,0B;QAAA,aAAkB,C;MAC1D,IAAI,aAAa,CAAb,IAAkB,aAAa,KAAM,OAAzC,C;QACI,MAAM,8BAA0B
,gCAA6B,UAA7B,wBAAyD,KAAM,OAAzF,C;OAEV,OAAqB,SAAd,oBAAc,EAAS,KAAM,WAAf,EAA2B,UA
A3B,EAAuC,oBAAvC,C;K;IAeG,6E;MAAA,mB;QAAE,+BAAK,aAAL,EAAY,kBAAZ,C;O;K;IAA2B,uC;MAA
W,OAAA,KAAM,O;K;sCAZ1E,6B;MAQ+C,0B;QAAA,aAAkB,C;MAC7D,IAAI,aAAa,CAAb,IAAkB,aAAa,KA
AM,OAAzC,C;QACI,MAAM,8BAA0B,gCAA6B,UAA7B,wBAAyD,KAAM,OAAzF,C;OAEV,OAAO,mBAAiB,
6CAAjB,EAA8C,sBAA9C,C;K;0CAGX,iB;MAMI,OAA2B,SAA3B,iCAA2B,EAAS,KAAM,WAAf,EAA2B,CAA
3B,EAA8B,oBAA9B,C;K;sCAE/B,wB;MAGI,IAAI,QAAQ,CAAR,IAAa,QAAQ,KAAM,OAA/B,C;QACI,MAAM
,8BAA0B,0BAAuB,KAAvB,wBAA8C,KAAM,OAA9E,C;OAEV,OAA2B,SAApB,0BAAoB,EAAS,KAAM,WAA
f,EAA2B,KAA3B,EAAkC,oBAAlC,C;K;IA4BL,mD;MAAA,qB;QAAE,2BAAoB,EAApB,EAAwB,mBAAxB,C;O
;K;sCAxB5B,8B;MAqBI,IAAI,CAAa,YAAZ,WAAY,EAAS,EAAT,CAAb,IAA+B,CAAa,YAAZ,WAAY,EAAS,E
AAT,CAAhD,C;QACI,OAAO,KAAM,W3G2E4E,S2G3EnD,oB3G2EmD,E2G3EpC,W3G2EoC,C;O2GzE7F,OAA
O,qBAAQ,KAAR,EAAe,iCAAf,C;K;sCAGX,4B;MAMI,YAAY,kBAAK,KAAL,C;MACZ,IAAI,aAAJ,C;QAAmB
,OAAO,KAAM,W;MAEhC,gBAAgB,C;MAChB,aAAa,KAAM,O;MACnB,SAAS,mBAAc,MAAd,C;;QAEL,iBA
AiB,oB;QACjB,EAAG,gBAAO,KAAP,EAAc,SAAd,EAAyB,UAAW,MAAM,MAA1C,C;QACH,EAAG,gBAAO,
UAAU,UAAV,CAAP,C;QACH,YAAY,UAAW,MAAM,aAAjB,GAAgC,CAAhC,I;QACZ,QAAQ,UAAW,O;;MA
Cd,oBAAY,MAAZ,IAAsB,aAAtB,C;MAET,IAAI,YAAY,MAAhB,C;QACI,EAAG,gBAAO,KAAP,EAAc,SAAd,
EAAyB,MAAzB,C;OAGP,OAAO,EAAG,W;K;2CAGd,8B;MA0BgB,Q;MALZ,IAAI,CAAa,YAAZ,WAAY,EAAS
,EAAT,CAAb,IAA+B,CAAa,YAAZ,WAAY,EAAS,EAAT,CAAhD,C;QACI,uBAA+B,QAAR,YAAQ,EAAQ,GA
AR,C;QAC/B,OAAO,KAAM,W3GoB4E,S2GpBnD,WAAO,YAAP,EAAgB,gBAAhB,C3GoBmD,E2GpBhB,W3G
oBgB,C;O2GjBjF,yBAAK,KAAL,C;MAAAA,iB;QAAe,OAAO,KAAM,W;OAAxC,YAAY,I;MCoLO,gBAAhB,sB;
MDjLC,yBrG2LgF,0BqG3LzD,CrG2LyD,EqG3LhD,WAAM,MrG2L0C,CAAkC,WqG3LlH,C;MACA,yBAAO,uC
AAP,C;MACA,yBrGyLgF,0BqGzLnD,WAAM,KAAZ,GAAmB,CAAnB,IrGyLyD,EqGzL7B,YrGyL6B,CAAkC,
WqGzLlH,C;MAHJ,OrHlJG,SsHoUqC,W;K;oCD3K5C,wB;MAO6C,qB;QAAA,QAAa,C;MAMxC,Q;MALd,wBA
AwB,KAAxB,C;MrHrIG,SqHsIW,qBAAQ,KAAR,C;MAAd,cAAuC,UAAS,CAAb,GAAgB,EAAhB,GAA2B,OA
AH,EAAG,EAAK,QAAQ,CAAR,IAAL,C;MAC9D,ahI3JgD,gB;MgI4JhD,gBAAgB,C;MAEF,yB;MAAd,OAAc,c
AAd,C;QAAc,uB;QACV,MAAO,WAAU,mBAAN,KAAM,EAAY,SAAZ,EAAuB,KAAM,MAAM,MAAnC,CAA
0C,WAApD,C;QACP,YAAY,KAAM,MAAM,aAAZ,GAA2B,CAA3B,I;;MAEhB,MAAO,WAAU,mBAAN,KAA
M,EAAY,SAAZ,EAAuB,KAAM,OAA7B,CAAqC,WAA/C,C;MACP,OAAO,M;K;IAgBS,yI;MAAA,wC;MAAA,6
B;MAAA,yB;MAAA,0C;MAAA,oC;MAAA,0C;MAAA,yB;MAAA,6B;MAAA,8B;MAAA,8B;MAAA,kC;K;;;;gE
AAA,Y;;;;;iCACA,mCAAK,wBAAL,C;cACZ,IAAI,4BAAiB,6BAAS,CAA9B,C;gBACI,gB;gCAAA,iCAAM,wB
AAM,WAAZ,O;oBAAA,2C;yBAAA,yB;gBAAA,Q;;gBADJ,gB;;;;;;cAEI,M;;qCAGY,C;sCACC,C;cAEjB,gB;;;sC
ACqB,+B;cACjB,gB;8BAAA,iCrGuI4E,mBqGvItE,wBrGuIsE,EqGvItD,oBrGuIsD,EqGvI3C,qBAAW,MAAM,Mr
GuI0B,CAAkC,WqGvI9G,O;kBAAA,2C;uBAAA,yB;cAAA,Q;;cACA,uBAAY,qBAAW,MAAM,aAAjB,GAAgC,
CAAhC,I;cACZ,mBAAQ,qBAAW,O;cAJvB,KAKS,qDALT,EAKS,qBALT,OAKyB,2BAAQ,CAAR,IALzB,KAK
sC,gBALtC,S;gBAAA,gB;;;cAAA,gB;;;cAOA,gB;8BAAA,iCrGkIgF,mBqGlI1E,wBrGkI0E,EqGlI1D,oBrGkI0D,E
qGlI/C,wBAAM,OrGkIyC,CAAkC,WqGlIlH,O;kBAAA,2C;uBAAA,yB;cAAA,Q;;cAhBA,OAgBA,a;;;;;;;;;;;;;K;I
AjBY,sF;MAAA,yD;uBAAA,6H;YAAA,S;iBAAA,Q;;iBAAA,uB;O;K;8CAbpB,wB;MAUuD,qB;QAAA,QAAa,C
;MAChE,wBAAwB,KAAxB,C;MAEA,OAAO,SAAS,gDAAT,C;K;+BAsBX,Y;MAMyC,OAAA,oBAAc,W;K;IAE
vD,2B;MAAA,+B;MAmBI,uBAA4B,WAAO,uBAAP,EAAiC,GAAjC,C;MAC5B,2BAAgC,WAAO,OAAP,EAAm

B,GAAnB,C;MAGhC,iCAAsC,WAAO,KAAP,EAAiB,GAAjB,C;K;oDAtBtC,mB;MAIwD,oBAAM,oBAAO,OAA
P,CAAN,C;K;+CAExD,mB;MAIoD,OAAA,O3GnEyC,S2GmEnB,oB3GnEmB,E2GmEJ,M3GnEI,C;K;0D2GqE7F
,mB;MAI+D,OAAA,O3GzE8B,S2GyER,wB3GzEQ,E2GyEW,M3GzEX,C;K;gE2G8E7F,mB;MAAgE,OAAA,O3
G9E6B,S2G8EP,8B3G9EO,E2G8EkB,M3G9ElB,C;K;;;I2GwDjG,uC;MAAA,sC;QAAA,qB;OAAA,+B;K;;IA5PA,
4C;MAAA,+C;MACkE,kBAAK,OAAL,EAAc,MAAM,MAAN,CAAd,C;MADlE,Y;K;IAGA,sC;MAAA,+C;MAC
6C,kBAAK,OAAL,EAAc,UAAd,C;MAD7C,Y;K;IA4RO,kG;MAAA,kC;MAAA,8C;MAAA,kC;MAAA,kC;MAC
H,uBAA+B,a;MAI/B,sF;MAOA,sBAA0C,I;K;+FAX1C,Y;MAAA,2B;K;+FAEI,Y;MAAQ,qBAAA,kBN/R8C,CM
+RxC,CN/RwC,CM+R9C,C;K;gGAEZ,Y;MAAA,4B;K;IAY2B,oG;MAAA,kC;MAAS,uB;K;mJACG,Y;MAAQ,O
AAA,kBAAM,O;K;wGACrC,iB;MAAuC,Q;MAAA,eAAA,kBN/SG,CM+SG,KN/SH,CM+SH,mBAAgB,E;K;;qG
AJnE,Y;MACI,IAAI,2BAAJ,C;QACI,yH;OAKJ,OAAO,kC;K;4CAGf,Y;MACI,OAAY,SAAZ,wBAAY,EAAS,kB
AAT,EAAoB,kBAAM,UAAV,GAAqB,kBAAM,MAAN,GAAc,CAAd,IAArB,GAA0C,kBAAM,aAAN,GAAqB,C
AArB,IAA1D,EAAkF,wBAAlF,C;K;IArB4B,oE;MAAA,kC;MAA+B,6B;K;mHAChD,Y;MAAQ,OAAA,kBAAM,
O;K;IACqC,4E;MAAA,qB;QAAE,yBAAK,EAAL,C;O;K;qEAA5E,Y;MAAiD,OAAqB,OAAb,aAAR,oBAAQ,CA
Aa,EAAI,iEAAJ,CAAiB,W;K;wEACvF,iB;MAA4C,Q;MAAA,eAAA,kBNpSU,CMoSJ,KNpSI,CMoSV,YAAoB,o
BAApB,O;K;;;IAdxD,uD;MACI,sBAAiB,I;MACjB,YAAY,eAAK,KAAL,C;MACZ,IAAI,aAAJ,C;QAAmB,OAA
O,I;MAC1B,YAAY,aAAA,KAAM,MAAN,EAAa,sBAAY,CAAZ,IAAb,C;MAEZ,mE;K;IA8BJ,iD;MAM+B,UAK
O,M;MATlC,YAAY,C;MACZ,aAAa,mBAAc,WAAY,OAA1B,C;MAEb,OAAO,QAAQ,WAAY,OAA3B,C;QACI,
WAAW,wBAAY,YAAZ,EAAY,oBAAZ,Q;QACX,IAAI,SAAQ,EAAZ,C;UACI,IAAI,UAAS,WAAY,OAAzB,C;Y
ACI,MAAM,gCAAyB,mCAAzB,C;UAEV,MAAO,gBAAO,wBAAY,cAAZ,EAAY,sBAAZ,UAAP,C;eACJ,IAAI,
SAAQ,EAAZ,C;UACH,IAAI,UAAS,WAAY,OAAzB,C;YACI,MAAM,gCAAyB,kCAAzB,C;UAEV,IAAI,uBAA
Y,KAAZ,MAAsB,GAA1B,C;YACI,MAAM,gCAAyB,4DAAzB,C;UAEV,IAAI,EAAuB,kBAAK,EAAL,CAAvB,0
CAAY,KAAZ,EAAJ,C;YACI,MAAM,gCAAyB,mCAAzB,C;UAEV,eAA2B,eAAZ,WAAY,EAAe,KAAf,EAAsB,
KAAM,YAAY,KAAxC,C;UAC3B,iBAAwD,MAAvC,W3GhKmE,W2GgK7C,K3GhK6C,E2GgKtC,Q3GhKsC,C2
GgK5B,C;UAExD,IAAI,cAAc,KAAM,YAAY,KAApC,C;YACI,MAAM,8BAA0B,sBAAmB,UAAnB,oBAA1B,C;
UAEV,MAAO,gBAAO,KAAM,YAAN,aAAkB,UAAlB,CAAP,C;UACP,QAAQ,Q;;UAER,MAAO,gBAAO,IAAP,
C;;;MAGf,OAAO,MAAO,W;K;IAGlB,2D;MAEI,YAAY,aAAa,CAAb,I;MACZ,iBAAiB,qBAAK,UAAL,IAAmB,
E;MAGpC,OAAO,QAAQ,gBAAR,IAAkB,CAAe,kBAAK,EAAL,CAAf,wCAAK,KAAL,EAAzB,C;QACI,oBAAo
B,CAAC,aAAa,EAAb,IAAD,KAAqB,qBAAK,KAAL,IAAc,EAAnC,K;QACpB,IAAqB,CAAjB,qCAAyB,UAA7B
,C;UACI,aAAa,a;UACb,qB;;UAEA,K;;;MAGR,OAAO,K;K;I3GxZX,yB;MAQiB,Q;MADb,aAAa,E;MACb,wBAA
a,KAAb,gB;QAAa,WAAb,UAAa,KAAb,O;QACI,8BAAU,IAAV,C;;MAEJ,OAAO,M;K;IAGX,yC;MAa+B,Q;MA
H3B,IAAI,SAAS,CAAT,IAAc,SAAS,CAAvB,IAA4B,CAAA,KAAM,OAAN,GAAa,MAAb,QAAsB,MAAtD,C;Q
ACI,MAAM,8BAA0B,WAAS,KAAM,OAAf,kBAA+B,MAA/B,kBAAgD,MAA1E,C;MACV,aAAa,E;MACc,gBA
AS,MAAT,I;MAA3B,iBAAc,MAAd,wB;QACI,8BAAU,MAAM,KAAN,CAAV,C;;MAEJ,OAAO,M;K;IAGX,mC;
MAOiB,Q;MADb,aAAa,E;MACb,wBAAa,SAAb,gB;QAAa,WAAb,UAAa,SAAb,O;QACI,8BAAU,IAAV,C;;MA
EJ,OAAO,M;K;IAGX,2D;MAY2C,0B;QAAA,aAAkB,C;MAAG,wB;QAAA,WAAgB,SAAK,O;MACjF,oCAAa,4
BAAmB,UAAnB,EAA+B,QAA/B,EAAyC,SAAK,OAA9C,C;MACb,aAAa,E;MACb,iBAAc,UAAd,UAA+B,QAA
/B,U;QACI,8BAAU,UAAK,KAAL,CAAV,C;;MAEJ,OAAO,M;K;IASkB,gD;MAAA,qB;QAAE,+CAAI,EAAJ,E;
O;K;IAN/B,kC;MAMI,OAAO,kBAAU,gBAAV,EAAkB,+BAAlB,C;K;IAiBiC,oE;MAAA,qB;QAAE,+CAAI,qBA
Aa,EAAb,IAAJ,E;O;K;IAd9C,wD;MAYqC,0B;QAAA,aAAkB,C;MAAG,wB;QAAA,WAAgB,SAAK,O;MAC3E,
oCAAa,4BAAmB,UAAnB,EAA+B,QAA/B,EAAyC,gBAAzC,C;MACb,OAAO,kBAAU,WAAW,UAAX,IAAV,E
AAiC,2CAAjC,C;K;IAGX,mC;MAQI,OAAO,WAAW,SAAX,EAAAiB,CAAjB,EAAAoB,gBAApB,EAA0B,KAA1B,
C;K;IAGX,mF;MAeI,0B;QAAA,aAAkB,C;MAClB,wB;QAAA,WAAgB,SAAK,O;MACrB,sC;QAAA,yBAAkC,K
;MAElC,oCAAa,4BAAmB,UAAnB,EAA+B,QAA/B,EAAyC,SAAK,OAA9C,C;MACb,OAAO,WAAW,SAAX,E
AAiB,UAAjB,EAA6B,QAA7B,EAAuC,sBAAvC,C;K;IAGX,sC;MAQI,OAAO,WAAW,SAAX,EAAAiB,CAAjB,E
AAoB,gBAApB,EAA4B,KAA5B,C;K;IAGX,sF;MAeI,0B;QAAA,aAAkB,C;MAClB,wB;QAAA,WAAgB,SAAK,
O;MACrB,sC;QAAA,yBAAkC,K;MAElC,oCAAa,4BAAmB,UAAnB,EAA+B,QAA/B,EAAyC,gBAAzC,C;MACb
,OAAO,WAAW,SAAX,EAAAiB,UAAjB,EAA6B,QAA7B,EAAuC,sBAAvC,C;K;uFAGX,qB;MAMwD,OAAA,SA
AY,c;K;mFAEpE,qB;MAWsD,OAAA,SAAY,c;K;uFAElE,qB;MAMwD,OAAA,SAAY,c;K;mFAEpE,qB;MAWsD

,OAAA,SAAY,c;K;yFAElE,qC;MACoF,OAAA,SAAY,SAAQ,GAAR,EAAa,SAAb,C;K;iGAEhG,qC;MACwF,OA
AA,SAAY,aAAY,GAAZ,EAAiB,SAAjB,C;K;+FAEpG,kC;MACiF,OAAA,SAAY,YAAW,CAAX,EAAc,QAAd,C
;K;2FAE7F,wB;MACgE,OAAA,SAAY,UAAS,CAAT,C;K;iFAE5E,iC;MACqE,OAAA,SAAY,WAAU,UAAV,C;
K;mFAEjF,2C;MACoF,OAAA,SAAY,WAAU,UAAV,EAAsB,QAAtB,C;K;4EAEhG,0B;MAGuD,OAAA,SAAY,
QAAO,GAAP,C;K;wEAEnE,4B;MAGgE,OAAA,SAAY,OAAM,KAAN,C;K;yFAK5E,2C;MACyF,OAAA,SAAY,
SAAQ,OAAR,EAAiB,WAAjB,C;K;IAErG,iD;MAOkD,0B;QAAA,aAAsB,K;MACpE,IAAI,UAAJ,C;QACI,SAAS
,SAAK,O;QACd,SAAS,KAAM,O;QACf,UTGG,MAAO,KSHM,ETGN,ESHU,ETGV,C;QSFV,IAAI,QAAO,CAA
X,C;UAAc,OAAO,KAAK,EAAL,I;QACrB,iBAAc,CAAd,UAAsB,GAAtB,U;UACI,eAAe,qBAAK,KAAL,C;UAC
f,gBAAgB,iBAAM,KAAN,C;UAEhB,IAAI,aAAY,SAAhB,C;YACI,WAAoB,cAAT,QAAS,C;YACpB,YAAsB,cA
AV,SAAU,C;YAEtB,IAAI,aAAY,SAAhB,C;cACwB,kBAAT,Q;cAAX,WDlO2C,gCAAY,cAfrB,YAAY,CAAZ,C;
cCkPZ,kBAAV,S;cAAZ,YDnO2C,gCAAY,cAfrB,YAAY,CAAZ,C;cCoPlC,IAAI,aAAY,SAAhB,C;gBACI,OAAg
B,iBAAT,QAAS,EAAU,SAAV,C;;QAKhC,OAAO,KAAK,EAAL,I;;QAEP,OAAO,4BAAU,KAAV,C;;K;IAIf,4C;
MAOqF,oCAAkB,KAAlB,C;K;IAErF,wD;MASI,OAAW,UAAJ,GACE,4BAAL,SAAK,EAA4B,KAA5B,CADF,G
AGE,kBAAL,SAAK,EAAkB,KAAlB,C;K;IAIkD,oD;MAAU,OAAE,UAAF,CAAE,EAAU,CAAV,EAA0B,IAA1B
,C;K;;IAIvE,+C;MAAQ,oC;K;2F6G/SZ,oC;MACiF,O7G2Me,kB6G3ME,oBAAH,EAAG,C7G2MF,E6G3Mc,S7G
2Md,C;K;mG6GzMhG,oC;MACqF,O7G2Me,sB6G3MM,oBAAH,EAAG,C7G2MN,E6G3MkB,S7G2MlB,C;K;I6
GzMpG,mD;MAIoD,0B;QAAA,aAAsB,K;MACtE,IAAI,CAAC,UAAL,C;QACI,O7GsMqF,qB6GtM7D,M7GsM6
D,E6GtMrD,C7GsMqD,C;;Q6GpMrF,OAAO,yBAAc,CAAd,EAAiB,MAAjB,EAAyB,CAAzB,EAA4B,MAAO,O
AAnC,EAA2C,UAA3C,C;K;IAGf,iE;MAIqE,0B;QAAA,aAAsB,K;MACvF,IAAI,CAAC,UAAL,C;QACI,O7G2Lq
F,qB6G3L7D,M7G2L6D,E6G3LrD,U7G2LqD,C;;Q6GzLrF,OAAO,yBAAc,UAAd,EAA0B,MAA1B,EAAkC,CAA
lC,EAAqC,MAAO,OAA5C,EAAoD,UAApD,C;K;IAGf,iD;MAIkD,0B;QAAA,aAAsB,K;MACpE,IAAI,CAAC,U
AAL,C;QACI,O7GmLoE,mB6GnL9C,M7GmL8C,C;;Q6GjLpE,OAAO,yBAAc,mBAAS,MAAO,OAAhB,IAAd,E
AAsC,MAAtC,EAA8C,CAA9C,EAAiD,MAAO,OAAxD,EAAgE,UAAhE,C;K;IAGf,mC;MAGI,aACa,S7G0L2D,
O6G1LhD,K7G0LgD,C;M6GzLxE,OAAO,kBAAkB,MAAO,OAAP,KAAe,C;K;IAG5C,4B;MAKoD,gCAAU,C;M
AAV,U;QAAuB,kBAAR,yB;QAAAQ,c;;UpH2nDvD,U;UADhB,IAAI,0CAAsB,qBAA1B,C;YAAqC,aAAO,I;YAA
P,e;WACrB,+B;UAAhB,OAAgB,gBAAhB,C;YAAgB,2B;YAAM,IAAI,CoH3nD4D,aAT,qBpH2nDxC,OoH3nD
wC,CAAS,CpH2nDhE,C;cAAyB,aAAO,K;cAAP,e;;UAC/C,aAAO,I;;;QoH5nDgE,iB;OAAvB,W;K;IAEpD,gD;M
ASiD,0B;QAAA,aAAsB,K;MAOxC,Q;MAN3B,IAAI,iBAAJ,C;QAAkB,OAAO,a;MACzB,IAAI,aAAJ,C;QAAmB
,OAAO,K;MAC1B,IAAI,CAAC,UAAL,C;QAAiB,OAAO,kBAAQ,KAAR,C;MAExB,IAAI,SAAK,OAAL,KAAe,
KAAM,OAAzB,C;QAAiC,OAAO,K;MAEb,OAAL,SAAK,O;MAA3B,iBAAc,CAAd,wB;QACI,eAAe,qBAAK,K
AAL,C;QACf,gBAAgB,iBAAM,KAAN,C;QAChB,IAAI,CAAU,SAAT,QAAS,EAAO,SAAP,EAAkB,UAAlB,CA
Ad,C;UACI,OAAO,K;;MAIf,OAAO,I;K;IAIX,sF;MACkH,0B;QAAA,aAAsB,K;MACpI,oCAAkB,UAAlB,EAA8
B,KAA9B,EAAqC,WAArC,EAAkD,MAAlD,EAA0D,UAA1D,C;K;IAGJ,+B;MAYI,OvGmMmD,mBAAS,CuGn
M5D,G7GwH4F,oB6GxHzD,C7GwHyD,E6GxHtD,C7GwHsD,CAvC9B,c6GjFrC,G7GqHoD,oB6GrHZ,C7GqHY,
C6GrH7E,GAAyE,S;K;IAG7E,iC;MASI,OvGuLmD,mBAAS,CuGvL5D,G7G4G4F,oB6G5GzD,C7G4GyD,E6G5
GtD,C7G4GsD,CAlB9B,c6G1FrC,G7GyGoD,oB6GzGZ,C7GyGY,C6GzG7E,GAAyE,S;K;IAG7E,8B;MAOiB,IA
AN,I;M1H/FP,IAAI,E0H8FI,KAAK,C1H9FT,CAAJ,C;QACI,c0H6Fc,oD;Q1H5Fd,MAAM,gCAAyB,OAAQ,WA
AjC,C;O0H6FH,QAAM,CAAN,C;aACH,C;UAAK,S;UAAL,K;aACA,C;UAAU,OAAL,SAAK,W;UAAV,K;gBAE
I,aAAa,E;UACb,IAAI,EvGgKoC,qBAAU,CuGhK9C,CAAJ,C;YACI,QAAQ,SAAK,W;YACb,YAAY,C;YACZ,O
AAO,IAAP,C;cACI,IAAI,CAAC,QAAU,CAAX,MAAiB,CAArB,C;gBACI,UAAU,C;eAEd,QAAQ,UAAW,C;cA
CnB,IAAI,UAAS,CAAb,C;gBACI,K;eAEJ,KAAK,C;;;UAGb,OAAO,M;;MAnBf,W;K;IAwBJ,4D;MAOqE,0B;QA
AA,aAAsB,K;MACvF,O7GkFiG,kB6GlFnF,WAAO,6BAAM,gBAAO,QAAP,CAAb,EAAmC,UAAJ,GAAAgB,KA
AhB,GAA2B,IAA1D,C7GkFmF,E6GlFlB,6BAAM,iCAAwB,QAAxB,C7GkFY,C;K;I6GhFrG,4D;MAM+D,0B;Q
AAA,aAAsB,K;MACjF,O7GyEiG,kB6GzEnF,WAAO,6BAAM,gBAAe,oBAAR,OAAQ,CAAf,CAAb,EAA6C,UA
AJ,GAAAgB,KAAhB,GAA2B,IAApE,C7GyEmF,E6GzEA,oBAAR,OAAQ,C7GyEA,C;K;I6GvErG,iE;MAC0E,0B;
QAAA,aAAsB,K;MAC5F,O7GqEiG,kB6GrEnF,WAAO,6BAAM,gBAAO,QAAP,CAAb,EAAmC,UAAJ,GAAAgB,
IAAhB,GAA0B,GAAzD,C7GqEmF,E6GrEpB,6BAAM,iCAAwB,QAAxB,C7GqEc,C;K;I6GnErG,iE;MACoE,0B;
QAAA,aAAsB,K;MACtF,O7GiEiG,kB6GjEnF,WAAO,6BAAM,gBAAe,oBAAR,OAAQ,CAAf,CAAb,EAA6C,U

AAJ,GAAgB,IAAhB,GAA0B,GAAnE,C7GiEmF,E6GjEF,oBAAR,OAAQ,C7GiEE,C;K;I8G7OrG,kD;MAEI,IAAI
,gBAAJ,C;QAAsB,MAAM,6BAAyB,qCAAkC,QAAQ,CAAR,IAAlC,CAAzB,C;MAC5B,OAAO,CAAC,IAAD,I;
K;IAGX,iF;MAQI,IAAI,EAAS,KAAT,oBAAiB,KAAjB,KAA2B,SAAS,QAAxC,C;QACI,OAAO,UAAU,CAAV,E
AAa,KAAb,EAAoB,gBAApB,C;OAEX,UAAU,kBAAO,KAAP,C5GwBgC,I;M4GvB1C,IAAI,EAAQ,KAAR,kBA
AgB,KAAhB,CAAJ,C;QACI,OAAO,UAAU,CAAV,EAAa,KAAb,EAAoB,gBAApB,C;OAEX,OAAO,SAAW,CA
AC,OAAS,IAAV,KAAqB,EAAhC,IAAwC,MAAQ,I;K;IAG3D,yE;MAQI,IAAI,SAAU,EAAV,MAAkB,CAAlB,IA
AuB,SAAS,QAApC,C;QACI,OAAO,UAAU,CAAV,EAAa,KAAb,EAAoB,gBAApB,C;OAEX,YAAY,KAAa,CAA
P,KAAO,C;MACzB,IAAI,SAAU,GAAV,MAAkB,GAAtB,C;QACI,OAAO,UAAU,CAAV,EAAa,KAAb,EAAoB,g
BAApB,C;OAEX,OAAQ,SAAU,CAAX,GAAkB,KAAlB,GAA4B,I;K;IAGvC,yE;MASI,IAAI,SAAS,QAAb,C;QA
CI,OAAO,UAAU,CAAV,EAAa,KAAb,EAAoB,gBAApB,C;OAGX,YAAY,KAAa,CAAP,KAAO,C;MACzB,IAAI
,SAAU,EAAV,MAAiB,CAArB,C;QACI,IAAI,SAAU,GAAV,MAAkB,GAAtB,C;UAEI,OAAO,UAAU,CAAV,EA
Aa,KAAb,EAAoB,gBAApB,C;gBAER,IAAI,SAAU,EAAV,MAAiB,EAArB,C;QACH,IAAI,SAAU,GAAV,MAAk
B,GAAtB,C;UAEI,OAAO,UAAU,CAAV,EAAa,KAAb,EAAoB,gBAApB,C;gBAER,IAAI,SAAU,GAAV,MAAkB
,GAAtB,C;QACH,OAAO,UAAU,CAAV,EAAa,KAAb,EAAoB,gBAApB,C;OAGX,IAAI,SAAQ,CAAR,UAAa,Q
AAjB,C;QACI,OAAO,UAAU,CAAV,EAAa,KAAb,EAAoB,gBAApB,C;OAEX,YAAY,KAAiB,CAAX,QAAQ,C
AAR,IAAW,C;MAC7B,IAAI,SAAU,GAAV,MAAkB,GAAtB,C;QACI,OAAO,UAAU,CAAV,EAAa,KAAb,EAAo
B,gBAApB,C;OAGX,OAAQ,SAAU,EAAX,GAAoB,SAAU,CAA9B,GAAqC,KAArC,GAA+C,O;K;IAG1D,yE;M
ASI,IAAI,SAAS,QAAb,C;QACI,UAAU,CAAV,EAAa,KAAb,EAAoB,gBAApB,C;OAGJ,YAAY,KAAa,CAAP,K
AAO,C;MACzB,IAAI,SAAU,EAAV,MAAiB,CAArB,C;QACI,IAAI,SAAU,GAAV,KAAkB,GAAtB,C;UAEI,OA
AO,UAAU,CAAV,EAAa,KAAb,EAAoB,gBAApB,C;gBAER,IAAI,SAAU,EAAV,MAAiB,CAArB,C;QACH,IAA
I,SAAU,GAAV,MAAkB,GAAtB,C;UAEI,OAAO,UAAU,CAAV,EAAa,KAAb,EAAoB,gBAApB,C;gBAER,IAAI,
SAAU,EAAV,IAAgB,CAApB,C;QACH,OAAO,UAAU,CAAV,EAAa,KAAb,EAAoB,gBAApB,C;aACJ,IAAI,SA
AU,GAAV,MAAkB,GAAtB,C;QACH,OAAO,UAAU,CAAV,EAAa,KAAb,EAAoB,gBAApB,C;OAGX,IAAI,SA
AQ,CAAR,UAAa,QAAjB,C;QACI,OAAO,UAAU,CAAV,EAAa,KAAb,EAAoB,gBAApB,C;OAEX,YAAY,KAAi
B,CAAX,QAAQ,CAAR,IAAW,C;MAC7B,IAAI,SAAU,GAAV,MAAkB,GAAtB,C;QACI,OAAO,UAAU,CAAV,
EAAa,KAAb,EAAoB,gBAApB,C;OAGX,IAAI,SAAQ,CAAR,UAAa,QAAjB,C;QACI,OAAO,UAAU,CAAV,EA
Aa,KAAb,EAAoB,gBAApB,C;OAEX,YAAY,KAAiB,CAAX,QAAQ,CAAR,IAAW,C;MAC7B,IAAI,SAAU,GAA
V,MAAkB,GAAtB,C;QACI,OAAO,UAAU,CAAV,EAAa,KAAb,EAAoB,gBAApB,C;OAEX,OAAQ,SAAU,EAA
X,GAAoB,SAAU,EAA9B,GAAuC,SAAU,CAAjD,GAAwD,KAAxD,GAAkE,O;K;;;IAmB7E,oE;MAkB0B,UAGJ,
MAHI,EAKJ,MALI,EAMJ,MANI,EASJ,MATI,EAUJ,MAVI,EAWJ,MAXI,EAgBA,MAhBA,EAiBA,MAjBA,EA
kBA,MAlBA,EAoBA,MApBA,EAqBA,OArBA,EAsBA,OAtBA,EAuBA,O;M3H9JtB,IAAI,E2HgII,cAAc,CAAd,I
AAmB,YAAY,MAAO,OAAtC,IAAgD,cAAc,Q3HhIlE,CAAJ,C;QACI,cAda,qB;QAeb,MAAM,gCAAyB,OAAQ,
WAAjC,C;O2HgIV,YAAY,cAAU,CAAC,WAAW,UAAX,IAAD,IAA0B,CAA1B,IAAV,C;MACZ,gBAAgB,C;M
AChB,gBAAgB,U;MAEhB,OAAO,YAAY,QAAnB,C;QACI,WAAW,mBAAO,gBAAP,EAAO,wBAAP,Q5G1H2
B,I;Q4G4HlC,WAAO,GAAP,C;UACI,MAAM,kBAAN,EAAM,0BAAN,YAA0B,OAAL,IAAK,C;eAC9B,WAAO,
IAAP,C;UACI,MAAM,kBAAN,EAAM,0BAAN,YAA4C,OAArB,QAAS,CAAV,GAAgB,GAAM,C;UAC5C,MA
AM,kBAAN,EAAM,0BAAN,YAA+C,OAAxB,OAAS,EAAV,GAAmB,GAAM,C;eAEnD,WAAO,KAAP,IAAiB,
QAAQ,KAAzB,C;UACI,MAAM,kBAAN,EAAM,0BAAN,YAA6C,OAAtB,QAAS,EAAV,GAAiB,GAAM,C;UA
C7C,MAAM,kBAAN,EAAM,0BAAN,YAAuD,OAA/B,QAAS,CAAV,GAAiB,EAAlB,GAA2B,GAAM,C;UACvD
,MAAM,kBAAN,EAAM,0BAAN,YAA+C,OAAxB,OAAS,EAAV,GAAmB,GAAM,C;;UAG/C,gBAAgB,uBAAu
B,MAAvB,EAA+B,IAA/B,EAAqC,SArC,EAAgD,QAAhD,EAA0D,gBAA1D,C;UAChB,IAAI,aAAa,CAAjB,C;
YACI,MAAM,kBAAN,EAAM,0BAAN,YAAqB,0BAA0B,CAA1B,C;YACrB,MAAM,kBAAN,EAAM,0BAAN,Y
AAqB,0BAA0B,CAA1B,C;YACrB,MAAM,kBAAN,EAAM,0BAAN,YAAqB,0BAA0B,CAA1B,C;;YAErB,MAA
M,kBAAN,EAAM,0BAAN,YAAkD,OAA3B,aAAc,EAAf,GAAsB,GAAM,C;YAClD,MAAM,mBAAN,EAAM,2B
AAN,aAA6D,OAArC,aAAc,EAAf,GAAuB,EAAxB,GAAiC,GAAM,C;YAC7D,MAAM,mBAAN,EAAM,2BAAN,
aAA4D,OAApC,aAAc,CAAf,GAAsB,EAAvB,GAAgC,GAAM,C;YAC5D,MAAM,mBAAN,EAAM,2BAAN,aAA
oD,OAA7B,YAAc,EAAf,GAAwB,GAAM,C;YACpD,6B;;;;MAMhB,OAAW,KAAM,OAAN,KAAc,SAAlB,GAA
6B,KAA7B,GAA8C,UAAN,KAAM,EAAO,SAAP,C;K;;IAQzD,mE;MAiByB,Q;M3H9LrB,IAAI,E2HwLI,cAAc,C

AAd,IAAmB,YAAY,KAAM,OAArC,IAA6C,cAAc,Q3HxL/D,CAAJ,C;QACI,cAda,qB;QAeb,MAAM,gCAAyB,O
AAQ,WAAjC,C;O2HwLV,gBAAgB,U;MAChB,oBAAoB,sB;MAEpB,OAAO,YAAY,QAAnB,C;QACI,WAAW,K
AAmB,CAAb,gBAAa,EAAb,wBAAa,O;QAE1B,YAAQ,CAAR,C;UACI,aAAc,gBAAY,OAAL,IAAK,CAAZ,C;a
AClB,YAAS,CAAT,KAAc,EAAd,C;UACI,WAAW,eAAe,KAAf,EAAsB,IAAtB,EAA4B,SAA5B,EAAuC,QAAvC
,EAAiD,gBAAjD,C;UACX,IAAI,QAAQ,CAAZ,C;YACI,aAAc,gBAAO,gBAAP,C;YACd,yBAAa,CAAC,IAAD,I
AAb,K;;YAEA,aAAc,gBAAY,OAAL,IAAK,CAAZ,C;YACd,wBAAa,CAAb,I;;eAGR,YAAS,CAAT,KAAc,EAAd
,C;UACI,aAAW,eAAe,KAAf,EAAsB,IAAtB,EAA4B,SAA5B,EAAuC,QAAvC,EAAiD,gBAAjD,C;UACX,IAAI,
UAAQ,CAAZ,C;YACI,aAAc,gBAAO,gBAAP,C;YACd,yBAAa,CAAC,MAAD,IAAb,K;;YAEA,aAAc,gBAAY,O
AAL,MAAK,CAAZ,C;YACd,wBAAa,CAAb,I;;eAGR,YAAS,CAAT,KAAc,EAAd,C;UACI,aAAW,eAAe,KAAf,E
AAsB,IAAtB,EAA4B,SAA5B,EAAuC,QAAvC,EAAiD,gBAAjD,C;UACX,IAAI,UAAQ,CAAZ,C;YACI,aAAc,gB
AAO,gBAAP,C;YACd,yBAAa,CAAC,MAAD,IAAb,K;;YAEA,WAAY,MAAD,GAAQ,KAAR,IAAqB,EAArB,G
AA2B,K;YACtC,UAAW,SAAS,IAAV,GAAoB,K;YAC9B,aAAc,gBAAY,OAAL,IAAK,CAAZ,C;YACd,aAAc,gB
AAW,OAAJ,GAAI,CAAX,C;YACd,wBAAa,CAAb,I;;;UAIJ,UAAU,CAAV,EAAa,SAAb,EAAwB,gBAAxB,C;U
ACA,aAAc,gBAAO,gBAAP,C;;;MAK1B,OAAO,aAAc,W;K;ICtQzB,uC;MAU2D,OAAwB,CAAxB,2BAAwB,mB
AAS,SAAT,C;K;IAEnF,oC;MAKI,OAAQ,OAAW,mBAAL,SAAK,CAAX,C;K;IAGZ,6C;MAMI,IAAI,cAAS,SA
Ab,C;QACI,iBAAsB,SAAY,Y;QAClC,IAAI,kBAAJ,C;UACS,SAAL,eAA+B,iBAAc,SAAd,E;;UAE/B,UAAW,W
AAI,SAAJ,C;;Q;IAUnB,6C;MAC4B,UAAjB,M;MAAP,OAAO,WAAiB,OAAZ,SAAY,YAAjB,4CAA+D,W;K;IAI
9E,iC;MACI,gBAAqB,sB;MACrB,iBAAsB,E;MACtB,kBAA+B,E;MAC/B,uBAAiC,C;K;uDAEjC,qB;MACc,qBA
AV,SAAU,EAAc,EAAd,EAAkB,EAAlB,C;MACV,OAAO,aAAO,W;K;gDAGlB,qB;MAA6D,gBAAR,c;MAAQ,c;
;Q1I41Y7C,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UAAsB,IAAc,O0I51Y+B,c1I41Y7C,C;Y
AAwB,aAAO,I;YAAP,e;;QAC9C,aAAO,K;;;M0I71Y8C,iB;K;sDAErD,wC;MACI,KAAK,qBAAL,SAAK,EAAc,
MAAd,EAAsB,SAAtB,CAAL,C;QAAyC,M;MAEzC,YAAY,SAAK,M;MACjB,OAAO,aAAP,C;QACI,KAAM,qB
AAN,KAAM,EAAc,MAAd,EAAsB,aAAtB,CAAN,C;UAA8C,M;QAC9C,QAAQ,KAAM,M;;K;sDAItB,wC;MAS
gB,IAAiB,IAAjB,EA2BE,M;MAnCd,aAAO,gBAAO,MAAP,CAAe,gBAAO,SAAP,C;MACtB,gBAAgB,SAAK,W
;MACrB,IAAI,eAAQ,SAAR,CAAJ,C;QACI,aAAO,gBAAO,kCAAP,CAA2C,gBAAO,SAAP,CAAkB,gBAAO,KA
AP,C;QACpE,OAAO,K;OAEH,cAAY,MAAK,SAAL,C;MAEpB,YAAY,CAAiB,OAAZ,SAAY,MAAjB,2D;MAC
Z,IAAI,aAAJ,C;QzHyBG,SyHxBwB,WAAN,KAAM,EAAQ,SAAR,C;QAAvB,iBAAoD,KAAK,CAAT,GAAY,C
AAZ,GAAmB,KAAe,gBAAf,I;QACnE,IAAI,eAAc,CAAlB,C;UAAqB,aAAO,gBAAO,SAAP,CAAkB,gBAAO,IA
AP,C;QAC9C,IAAI,ezG8MoC,YAAU,CyG9MlD,C;UACI,kBAAW,K;UACX,uBAAgB,U;;UAEhB,QAAQ,wBAA
iB,KAAjB,EAAwB,UAAxB,C;;QAEZ,IAAI,MzGgNuC,UAAS,CyGhNpD,C;UAEuB,U;UAAA,IAAI,eAAc,CAAl
B,C;YAAA,SAAqB,C;;Y1Gq+BpC,U;YADhB,YAAY,C;YACI,oB0Gr+B+C,S1Gq+B/C,C;YAAhB,OAAgB,gBA
AhB,C;cAAgB,sC;cAAM,I0Gr+BgE,U1Gq+BlD,oB0Gr+BkD,MAAK,E1Gq+BrE,C;gBAAwB,qB;;Y0Gr+Bf,SAA
4B,I1Gs+BpD,K0Gt+BoD,I;;UAA/C,yB;U5GorCC,kB;UADb,YAAY,C;UACC,S4GnrCK,aAAN,KAAM,C5GmrC
L,W;UAAb,OAAa,gBAAb,C;YAAa,wB;Y4GlrCG,I5GkrCU,oBAAmB,cAAnB,EAAmB,sBAAnB,U4GlrCN,gBA
AJ,C;cAA2B,aAAO,uB;YAClC,aAAO,gB5GirCgC,I4GjrChC,CAAa,gBAAO,IAAP,C;;;UAGxB,aAAO,gBAAO,K
AAP,CAAc,gBAAO,IAAP,C;;;QAGzB,aAAO,gBAAO,SAAP,CAAkB,gBAAO,IAAP,C;;MAG7B,iBAAiB,mC;M
ACjB,IpIuHoD,CoIvHhD,UpIuHiD,UoIvHrD,C;QACI,uBAAuB,SAAS,M;QACtB,8B;QAAV,OAAU,gBAAV,C;U
AAU,qB;UACJ,qBAAF,CAAE,EAAc,gBAAd,EAAgC,cAAhC,C;;OAGV,OAAO,I;K;yDAGX,6B;MAIwB,Q;MA
HpB,mBAAwB,C;MACxB,gBAAqB,C;MACrB,mBAAwB,C;MACJ,OxHyIjB,MAAO,KwHzIgB,eAAS,OAAT,G
AAkB,oBAAlB,IxHyIhB,EwHzIiD,KAAM,OAAN,GAAe,UAAf,IxHyIjD,C;MwHzIV,eAAY,CAAZ,oB;QACI,QA
AQ,iBAAY,iBAAN,KAAM,CAAN,GAAkB,GAAlB,IAAN,C;QACR,IAAI,MAAK,2BAAkB,iBAAT,eAAS,CAA
T,GAAqB,GAArB,IAAT,CAAT,C;UAA6C,K;QAC7C,IAAI,MAAK,EAAT,C;UACI,8BAAgB,CAAhB,I;UACA,e
AAe,S;UACf,YAAY,G;;MAGpB,IAAI,gBAAgB,CAApB,C;QAAuB,OAAO,K;MAC9B,OAAO,eAAe,CAAf,IAA
oB,iBAAY,iBAAN,KAAM,CAAN,IAAmB,YAAnB,GAAkC,CAAlC,KAAN,MAA+C,EAA1E,C;QACI,8BAAgB,
CAAhB,I;MAGJ,OAAa,YAAN,KAAM,EAAS,YAAT,CAAN,IAA+B,cAAW,eAAe,CAAf,IAAX,uCAA/B,C;K;;y
HC/H+C,Y;MAAQ,W;K;IAEtE,gD;MACkB,UAMP,M;MANO,IAAI,aAAY,CAAhB,C;QACV,Y;;QAEA,UxBsY8
C,MAAW,KwBtY/C,IxBsY+C,EwBtYtC,QxBsYsC,C;QwBrYzD,OAAA,IAAO,OxB2UmC,MAAW,KwB3UpC,K
xB2UoC,CwB3UxC,GAAa,GAAnB,CAAP,GAAiC,GAAjC,GxBwV2C,MAAW,MwBxVV,KxBwVU,C;;MwB5V

1D,kB;MAMO,IxByUuC,MAAW,KwBzU1C,OxByU0C,CwBzU9C,GAAe,MAAnB,C;QAEmC,SAA9B,OAAY,S
AAQ,QAAR,C;;QAGpB,exBoU0C,MAAW,KwBpUlC,OxBoUkC,C;QwBnUrD,qBAA8B,QAAY,axBgRC,MAA
W,MAvCV,MAAW,OwBzOU,QxByOV,CAuCD,CwBhRA,GAAwB,QAApC,C;QAC1C,SAAI,UAAU,CAAd,GA
AiB,MAAG,cAApB,GAAyC,c;;MAP7C,a;K;IAWJ,6C;MACI,OAAa,KAAY,gBAAe,OAAf,EAAwB,MAAK,4BA
A2B,QAA3B,CAAL,EAAxB,C;K;ICtBQ,4C;MAFrC,e;MAEsC,0B;MAFtC,iB;MAAA,uB;K;IAAA,mC;MAAA,sC
;O;MAGI,uEAGY,GAHZ,C;MAIA,yEAGa,MAHb,C;MAIA,yEAGa,SAHb,C;MAIA,+DAGQ,KAHR,C;MAIA,+D
AGQ,MAHR,C;MAIA,2DAGM,MAHN,C;MAIA,yDAGK,OAHL,C;K;;IAxBA,gD;MAAA,yB;MAAA,wC;K;;IAI
A,iD;MAAA,yB;MAAA,yC;K;;IAIA,iD;MAAA,yB;MAAA,yC;K;;IAIA,4C;MAAA,yB;MAAA,oC;K;;IAIA,4C;M
AAA,yB;MAAA,oC;K;;IAIA,0C;MAAA,yB;MAAA,kC;K;;IAIA,yC;MAAA,yB;MAAA,iC;K;;IA3BJ,+B;MAAA,
4Q;K;;IAAA,oC;MAAA,a;aAAA,a;UAAA,6C;aAAA,c;UAAA,8C;aAAA,c;UAAA,8C;aAAA,S;UAAA,yC;aAAA,
S;UAAA,yC;aAAA,O;UAAA,uC;aAAA,M;UAAA,sC;gBAAA,6D;;K;;IAiCA,4D;MAGW,Q;MADP,0BAA2C,iB
AAjB,UAAW,cAAM,EAAU,UAAW,cAArB,C;MAEvC,0BAAsB,CAAtB,C;QAA2B,gBAAS,UAAW,cAAX,GAA
mB,UAAW,cAAvC,C;WAC3B,0BAAsB,CAAtB,C;QAA2B,gBAAS,UAAW,cAAX,GAAmB,UAAW,cAAvC,C;;
QACnB,Y;MAHZ,W;K;IAOJ,oE;MAGW,Q;MADP,0BAA2C,iBAAjB,UAAW,cAAM,EAAU,UAAW,cAArB,C;M
AEvC,0BAAsB,CAAtB,C;QAA2B,sBAA8C,uBAArC,UAAW,cAAX,GAAmB,UAAW,cAAO,CAA9C,C;WAC3B
,0BAAsB,CAAtB,C;QAA2B,iBAA8C,uBAArC,UAAW,cAAX,GAAmB,UAAW,cAAO,CAA9C,C;;QACnB,Y;M
AHZ,W;K;IAOJ,8D;MAGW,Q;MADP,0BAA2C,iBAAjB,UAAW,cAAM,EAAU,UAAW,cAArB,C;MAEvC,0BA
AsB,CAAtB,C;QACI,YAAkD,uBAArC,UAAW,cAAX,GAAmB,UAAW,cAAO,C;QAClD,aAAa,eAAQ,KAAR,C;
QAET,sBAAS,KAAT,GAAkB,KAAlB,E;UAA2B,a;aAC3B,uBAAQ,CAAR,C;;;;aAIR,0BAAsB,CAAtB,C;QAA2
B,iBAA8C,uBAArC,UAAW,cAAX,GAAmB,UAAW,cAAO,CAA9C,C;;QACnB,Y;MAXZ,W;K;ICrDJ,+B;MAA
A,mC;MAUuB,wB;MALf,aAAR,OAAO,OAAQ,KAAI,WAAY,IAAG,OAAO,SAAX,IAAwB,CAAC,CAAC,OAA
O,SAAS,K;MADpE,sBAGQ,MAHR,GAIQ,iBAAa,OAAb,CAJR,GAMQ,qBAAW,OAAX,IAAA,4GACO,+B;K;4
CAIf,Y;MAAmC,OAAA,mBAAa,U;K;;;IAfpD,2C;MAAA,0C;QAAA,yB;OAAA,mC;K;IAwB2B,+B;MAAC,sB;K
;IAEW,+D;MAAA,0C;MAAS,mB;MACxC,iBAAgB,yBAAQ,S;K;8DACxB,Y;M5HyEG,Q4HxEC,8BAAQ,QAA
O,cAAP,C;MAAyB,c7IZlC,EAAI,CAAJ,C;M6IY2C,Y7IuF3C,EAAI,CAAJ,C;M6IvFC,OAA4D,aAAR,OAAQ,qC
AAR,aAAiD,aAAN,KAAM,yCAAjD,C;K;;qCAH5D,Y;MAAmC,mD;K;sCAMnC,Y;MAAkC,qC;K;;IAKF,4C;M
AAiC,4E;MAAhC,8B;K;2CACjC,Y;MAA8B,OAAA,gBAAY,M;K;+CAC1C,Y;MAAkC,2C;K;;IAGtC,6B;MAAA
,iC;MAEoC,4E;K;uCAChC,Y;MAA8B,OAAe,U;K;2CAC7C,Y;MAAkC,+B;K;;;IAJtC,yC;MAAA,wC;QAAA,uB;
OAAA,iC;K;IC1CA,gD;MAQ+B,kBAApB,wBAAc,IAAd,C;MAA0B,I7HgEjC,a;M6HhEA,O7HiEO,W;K;I6H9D
X,gD;MAQqD,kBAA1B,gBAAhB,sCAAgB,EAAc,IAAd,EAAoB,IAApB,C;MAAiC,sB7HoElD,W6HpEkD,C;MA
AxD,O7HqEO,W;K;I8HzFX,yC;MAEkD,8B;MAAA,OCGN,aDHwB,yBAAa,QAAb,mCCGxB,C/G+xBgC,sB;K;I
8GhyB5E,2C;M/IggIW,kBAAY,gB;MAoGH,Q;MAAhB,wB+I7lIqB,U/I6lIrB,gB;QAAgB,c+I7lIK,U/I6lIrB,M;QA
AsB,IAAI,C+I7lIkB,sB/I6lIP,O+I7lIO,C/I6lItB,C;UAAyB,WAAY,WAAI,OAAJ,C;;M+I7lI3D,qB/I8lIO,W;M+I7lI
P,IzIgNwD,CyIhNpD,czIgNqD,UyIhNzD,C;Q9GgKuC,U;Q8G/JnC,qB9G+JyD,OAAtB,+B8G/Jd,mB9G+Jc,uBAA
sB,CAAO,W;QsGkO7C,kBAAhB,sB;QQ/XC,0C;QACA,IAAI,E9G8QoC,0BAAU,C8G9Q9C,CAAJ,C;UACI,2BA
AO,GAAP,C;SAEW,sCAAa,GAAb,C;QALnB,sB9H4DG,WsHoUqC,W;QQzXxC,OAAO,I;OAGX,OAAO,K;K;IA
GX,8C;MAOmB,c;;Q/Ii3YC,Q;QAAhB,wB+Ij3YI,U/Ii3YJ,gB;UAAgB,c+Ij3YZ,U/Ii3YJ,M;UAAsB,I+Ij3YD,sB/I
i3Ye,O+Ij3Yf,C/Ii3YC,C;YAAwB,aAAO,I;YAAP,e;;QAC9C,aAAO,K;;;M+Il3YP,e;QACI,kBAA6B,MAAX,UAA
W,C;Q9GyIM,U;Q8GxIb,a9GwImC,OAAtB,+B8GxIvB,mB9GwIuB,uBAAsB,CAAO,W;Q8GxIX,kBC/BjB,aD+B
D,MC/BC,C/Gg1C6C,uBAAzB,CAAyB,C;QbnmB9E,kBAAS,gB;QA2FA,U;QAAA,+B;QAAhB,OAAgB,gBAAh
B,C;UAAgB,6B;UAAM,I2HzyB4C,4B3HyyB9B,S2HzyB8B,C3HyyB5C,C;YAAwB,WAAY,WAAI,SAAJ,C;;Q2
HzyBtD,sBAAmF,e3H0yBhF,W2H1yBgF,EAAa,GAAb,C;QACnF,OAAO,I;OAGX,OAAO,K;K;IEnCP,iC;MAAQ
,8BAAY,IAAK,UAAjB,IAA8B,uBAAY,IAAK,mB;K;IAOvD,oC;MAAQ,8BAAY,IAAK,a;K;ICZ7B,4B;MAGI,O
AAO,yBAAP,C;QACI,sBAAY,mCAAZ,C;;K;IAIR,uC;MAOI,sBAAY,sCAAgB,gBAAe,IAAf,CAA5B,C;MACA,
OAAO,S;K;ICbP,4B;MAAQ,mB;K;IACR,mC;MACI,eAAO,K;K;IAKX,4B;MAAQ,mB;K;IACR,mC;MACI,eAA
O,K;K;iHCoBf,sJ;MAEyC,qB;QAAA,QAAkB,I;MAAM,qB;QAAA,QAAkB,I;MAAM,uB;QAAA,UAAoB,K;MA
AO,yB;QAAA,YAAsB,I;MAAM,kC;QAAA,qBAA+B,I;MAAM,qC;QAAA,wBAAkC,K;MAAO,+C;QAAA,kCA
A4C,K;MAAO,4C;QAAA,+BAAyC,K;MACtT,QAAQ,E;MACR,EAAE,OAAF,IAAa,K;MACb,EAAE,OAAF,IA

Aa,K;MACb,EAAE,SAAF,IAAe,O;MACf,EAAE,WAAF,IAAiB,S;MACjB,EAAE,oBAAF,IAA0B,kB;MAC1B,E
AAE,uBAAF,IAA6B,qB;MAC7B,EAAE,iCAAF,IAAuC,+B;MACvC,EAAE,8BAAF,IAAoC,4B;MACpC,OAAO,
C;K;+GAw0BX,wD;MAEwC,6B;QAAA,gBAAyB,E;MAAI,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;
MAAO,wB;QAAA,WAAqB,K;MAC/I,QAAQ,E;MACR,EAAE,eAAF,IAAqB,a;MACrB,EAAE,SAAF,IAAe,O;M
ACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;6EA6CX,4B;MAE6D,iBAAY
,KAAZ,C;K;6EAE7D,mC;MAEoE,UAAY,KAAZ,IAAqB,K;K;6EAuBzF,4B;MAE8D,iBAAY,KAAZ,C;K;6EAE9
D,mC;MAEqE,UAAY,KAAZ,IAAqB,K;K;6EAuB1F,4B;MAEqE,iBAAY,KAAZ,C;K;6EAErE,mC;MAE4E,UAA
Y,KAAZ,IAAqB,K;K;6EAuBjG,4B;MAE+D,iBAAY,KAAZ,C;K;6EAE/D,mC;MAEsE,UAAY,KAAZ,IAAqB,K;
K;6EAuB3F,4B;MAEgE,iBAAY,KAAZ,C;K;6EAEhE,mC;MAEuE,UAAY,KAAZ,IAAqB,K;K;6EAuB5F,4B;MA
E6D,iBAAY,KAAZ,C;K;6EAE7D,mC;MAEoE,UAAY,KAAZ,IAAqB,K;K;6EAuBzF,4B;MAE8D,iBAAY,KAAZ,
C;K;6EAE9D,mC;MAEqE,UAAY,KAAZ,IAAqB,K;K;6EAuB1F,4B;MAEiE,iBAAY,KAAZ,C;K;6EAEjE,mC;M
AEwE,UAAY,KAAZ,IAAqB,K;K;6EAuB7F,4B;MAEkE,iBAAY,KAAZ,C;K;6EAElE,mC;MAEyE,UAAY,KAAZ
,IAAqB,K;K;6GC3oC9F,wD;MAEqC,6B;QAAA,gBAA+B,I;MAAM,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aA
AuB,K;MAAO,wB;QAAA,WAAqB,K;MACpJ,QAAQ,E;MACR,EAAE,eAAF,IAAqB,a;MACrB,EAAE,SAAF,IA
Ae,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;mIAiCX,+B;MAEgD,
mC;QAAA,sBAAgC,K;MAC5E,QAAQ,E;MACR,EAAE,qBAAF,IAA2B,mB;MAC3B,OAAO,C;K;4EC9CX,4B;
MAEgE,iBAAY,KAAZ,C;K;4EAgChE,4B;MAEyE,iBAAY,KAAZ,C;K;4EAiBzE,4B;MAEmE,iBAAY,KAAZ,C;
K;4EAyYnE,4B;MAE0E,iBAAY,KAAZ,C;K;oIC7a1E,4H;MAE8C,qB;QAAA,QAAiB,E;MAAI,6B;QAAA,gBAA
gC,E;MAAW,iC;QAAA,oBAA2D,E;MAAW,iC;QAAA,oBAA2D,E;MAAW,qC;QAAA,wBAmJvJ,U;OAnJqO,+B
;QAAA,kBAmJrO,U;OAnJ6S,4B;QAAA,eAA+B,S;MAC3a,QAAQ,E;MACR,EAAE,OAAF,IAAa,K;MACb,EAA
E,eAAF,IAAqB,a;MACrB,EAAE,mBAAF,IAAyB,iB;MACzB,EAAE,mBAAF,IAAyB,iB;MACzB,EAAE,uBAAF,
IAA6B,qB;MAC7B,EAAE,iBAAF,IAAuB,e;MACvB,EAAE,cAAF,IAAoB,Y;MACpB,OAAO,C;K;wIAYX,mC;M
AEgD,2B;QAAA,cAAuB,E;MAAI,0B;QAAA,aAAsB,E;MAC7F,QAAQ,E;MACR,EAAE,aAAF,IAAmB,W;MAC
nB,EAAE,YAAF,IAAkB,U;MAClB,OAAO,C;K;8HAkEX,+D;MAEqG,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,
aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MAC/K,QAAQ,E;MACR,EAAE,aAAF,IAAmB,W;MACnB,EAAE,SA
AF,IAAe,O;MACf,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MACh
B,OAAO,C;K;4HAwBX,iE;MAE0C,4B;QAAA,eAAwB,E;MAAI,wB;QAAA,WAAyB,I;MAAM,uB;QAAA,UAA
oB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MAC/K,QAAQ,E;MACR,EAAE,cAAF,IAAo
B,Y;MACpB,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EA
AE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;sGAUqE,qB;MAAQ,OAAW,U;K;sGAEnB,qB;MAAQ,OAAW,U;K;4G
AEhB,qB;MAAQ,OAAc,a;K;wGAS1B,qB;MAAQ,OAAY,W;K;0HAEX,qB;MAAQ,OAAqB,oB;K;kGASnD,qB;
MAAQ,OAAS,Q;K;oGAEhB,qB;MAAQ,OAAU,S;K;sGAEjB,qB;MAAQ,OAAW,U;K;wHAEV,qB;MAAQ,OAA
oB,mB;K;wHAE5B,qB;MAAQ,OAAoB,mB;K;kHAE/B,qB;MAAQ,OAAiB,gB;K;kHAEzB,qB;MAAQ,OAAiB,g
B;K;oHASd,qB;MAAQ,OAAkB,iB;K;oHAE1B,qB;MAAQ,OAAkB,iB;K;oHAE1B,qB;MAAQ,OAAkB,iB;K;wIA
EhB,qB;MAAQ,OAA4B,2B;K;4FC1MnI,uD;MAE8B,oB;QAAA,OAAgB,I;MAAM,sB;QAAA,SAAe,C;MAAG,u
B;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MAChJ,QAAQ,E;MACR,EAA
E,MAAF,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MA
ClB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;kGAuBX,sE;MAEiC,6B;QAAA,gBAA8B,I;MAAM,oB;QAAA,
OAAgB,I;MAAM,sB;QAAA,SAAe,C;MAAG,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;Q
AAA,WAAqB,K;MACvL,QAAQ,E;MACR,EAAE,eAAF,IAAqB,a;MACrB,EAAE,MAAF,IAAY,I;MACZ,EAAE,
QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;M
AChB,OAAO,C;K;kGA8DX,8U;MAEiC,uB;QAAA,UAAgB,C;MAAG,uB;QAAA,UAAgB,C;MAAG,uB;QAAA,
UAAgB,C;MAAG,uB;QAAA,UAAgB,C;MAAG,sB;QAAA,SAAiB,C;MAAG,uB;QAAA,UAAkB,C;MAAG,6B;Q
AAA,gBAA8B,I;MAAM,sB;QAAA,SAAkB,I;MAAM,uB;QAAA,UAAoB,K;MAAO,wB;QAAA,WAAqB,K;MA
AO,sB;QAAA,SAAmB,K;MAAO,uB;QAAA,UAAoB,K;MAAO,gC;QAAA,mBAA6B,K;MAAO,gC;QAAA,mBA
A6B,K;MAAO,0B;QAAA,aAAuB,K;MAAO,8B;QAAA,iBAA2B,K;MAAO,6B;QAAA,gBAA0B,K;MAAO,+B;Q
AAA,kBAA4B,K;MAAO,kC;QAAA,qBAA+B,K;MAAO,6B;QAAA,gBAA0B,K;MAAO,8B;QAAA,iBAA2B,K;
MAAO,kC;QAAA,qBAA+B,K;MAAO,oB;QAAA,OAAgB,I;MAAM,sB;QAAA,SAAe,C;MAAG,uB;QAAA,UAA

oB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MAC3wB,QAAQ,E;MACR,EAAE,SAAF,IAAA
e,O;MACf,EAAE,SAAF,IAAe,O;MACf,EAAE,SAAF,IAAe,O;MACf,EAAE,SAAF,IAAe,O;MACf,EAAE,QAAF,
IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,eAAF,IAAqB,a;MACrB,EAAE,QAAF,IAAc,M;MACd,EAA
E,SAAF,IAAe,O;MACf,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;M
ACf,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,YAAF,IAAkB,U;MAClB,EA
AE,gBAAF,IAAsB,c;MACtB,EAAE,eAAF,IAAqB,a;MACrB,EAAE,iBAAF,IAAuB,e;MACvB,EAAE,oBAAF,IA
A0B,kB;MAC1B,EAAE,eAAF,IAAqB,a;MACrB,EAAE,gBAAF,IAAsB,c;MACtB,EAAE,oBAAF,IAA0B,kB;MA
C1B,EAAE,MAAF,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IA
AkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;wGAgDX,kQ;MAEoC,uB;QAAA,UAAoB,K;MAA
O,wB;QAAA,WAAqB,K;MAAO,sB;QAAA,SAAmB,K;MAAO,uB;QAAA,UAAoB,K;MAAO,gC;QAAA,mBAA
6B,K;MAAO,gC;QAAA,mBA6B,K;MAAO,0B;QAAA,aAAuB,K;MAAO,8B;QAAA,iBA2B,K;MAAO,6B;QA
AA,gBA0B,K;MAAO,+B;QAAA,kBA4B,K;MAAO,kC;QAAA,qBA+B,K;MAAO,6B;QAAA,gBA0B,K;M
AAO,8B;QAAA,iBA2B,K;MAAO,kC;QAAA,qBA+B,K;MAAO,oB;QAAA,OAAgB,I;MAAM,sB;QAAA,SA
Ae,C;MAAG,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MAC7lB,QAA
Q,E;MACR,EAAE,SAAF,IAAe,O;MACf,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,QAAF,IAAc,M;MACd,EAAE,
SAAF,IAAe,O;MACf,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,YAAF,IAA
kB,U;MAClB,EAAE,gBAAF,IAAsB,c;MACtB,EAAE,eAAF,IAAqB,a;MACrB,EAAE,iBAAF,IAAuB,e;MACvB,
EAAE,oBAAF,IA0B,kB;MAC1B,EAAE,eAAF,IAAqB,a;MACrB,EAAE,gBAAF,IAAsB,c;MACtB,EAAE,oBA
AF,IA0B,kB;MAC1B,EAAE,MAAF,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf
,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;kGAsCX,iX;MAEiC,sB;QAAA,S
AAkB,G;MAAK,sB;QAAA,SAAkB,G;MAAK,sB;QAAA,SAAkB,G;MAAK,yB;QAAA,YAAkB,C;MAAG,uB;Q
AAA,UAAgB,C;MAAG,uB;QAAA,UAAgB,C;MAAG,uB;QAAA,UAAgB,C;MAAG,uB;QAAA,UAAgB,C;MAA
G,sB;QAAA,SAAiB,C;MAAG,uB;QAAA,UAAkB,C;MAAG,6B;QAAA,gBA8B,I;MAAM,sB;QAAA,SAAkB,I;
MAAM,uB;QAAA,UAAoB,K;MAAO,wB;QAAA,WAAqB,K;MAAO,sB;QAAA,SAAmB,K;MAAO,uB;QAAA,U
AAoB,K;MAAO,gC;QAAA,mBA6B,K;MAAO,gC;QAAA,mBA6B,K;MAAO,0B;QAAA,aAAuB,K;MAAO,8
B;QAAA,iBA2B,K;MAAO,6B;QAAA,gBA0B,K;MAAO,+B;QAAA,kBA4B,K;MAAO,kC;QAAA,qBA+B,K;
MAAO,6B;QAAA,gBA0B,K;MAAO,8B;QAAA,iBA2B,K;MAAO,kC;QAAA,qBA+B,K;MAAO,oB;QAAA
,OAAgB,I;MAAM,sB;QAAA,SAAe,C;MAAG,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;
QAAA,WAAqB,K;MAC2r2B,QAAQ,E;MACR,EAAE,QAAF,IAAc,M;MACd,EAAE,QAAF,IAAc,M;MACd,EAA
E,QAAF,IAAc,M;MACd,EAAE,WAAF,IAAiB,S;MACjB,EAAE,SAAF,IAAe,O;MACf,EAAE,SAAF,IAAe,O;MA
Cf,EAAE,SAAF,IAAe,O;MACf,EAAE,SAAF,IAAe,O;MACf,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,
O;MACf,EAAE,eAAF,IAAqB,a;MACrB,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,UAA
F,IAAgB,Q;MAChB,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,kBAAF,IAAwB,gB;MAC
xB,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,YAAF,IAAkB,U;MAClB,EAAE,gBAAF,IAAsB,c;MACtB,EAAE,
eAAF,IAAqB,a;MACrB,EAAE,iBAAF,IAAuB,e;MACvB,EAAE,oBAAF,IA0B,kB;MAC1B,EAAE,eAAF,IAAqB,a;MACrB,EAAE,gBAAF,IAAsB,c;MACtB,EAAE,oBAAF,IA0B,kB;MAC1B,EAAE,MAAF,IAAY,I;MACZ,E
AAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,
Q;MAChB,OAAO,C;K;kGA2CX,0E;MAEiC,oB;QAAA,OAAgB,E;MAAI,2B;QAAA,cAAwB,K;MAAO,oB;QAA
A,OAAgB,I;MAAM,sB;QAAA,SAAe,C;MAAG,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;
QAAA,WAAqB,K;MACtM,QAAQ,E;MACR,EAAE,MAAF,IAAY,I;MACZ,EAAE,aAAF,IAAmB,W;MACnB,EAAE,aAAF,IAAmB,W;MACnB,EAAE,MAAF,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;wGAmDX,4S;MAEoC,sB;QAAA,SAAmB,K;MAAO,2B;QAAA,cAAwB,K;MAAO,oB;QAAA,OAAgB,E;MAAI,2B;QAAA,cAAwB,K;MAAO,oB;QAAA,OAAgB,I;MAAM,sB;QAAA,SAAe,C;MAAG,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MAAO,sB;QAAA,SAAmB,K;MAAO,uB;QAAA,UAAoB,K;MAAO,gC;QAAA,mBA6B,K;MAAO,gC;QAAA,mBA6B,K;MAAO,0B;QAAA,aAAuB,K;MAAO,8B;QAAA,iBA2B,K;MAAO,6B;QAAA,gBA0B,K;MAAO,+B;QAAA,kBA4B,K;MAAO,kC;QAAA,qBA+B,K;MAAO,6B;QAAA,gBA0B,K;MAAO,8B;QAAA,iBA2B,K;MAAO,kC;QAAA,qBA+B,K;MAAO,oB;QAAA,OAAgB,I;MAAM,sB;QAAA,SAAe,C;MAAG,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WA

AqB,K;MACjtB,QAAQ,E;MACR,EAAE,KAAF,IAAW,G;MACX,EAAE,MAAF,IAAY,I;MACZ,EAAE,UAAF,IA
AgB,Q;MAChB,EAAE,QAAF,IAAc,M;MACd,EAAE,aAAF,IAAmB,W;MACnB,EAAE,SAAF,IAAe,O;MACf,EA
AE,UAAF,IAAgB,Q;MAChB,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,kBAAF,IAAwB
,gB;MACxB,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,YAAF,IAAkB,U;MAClB,EAAE,gBAAF,IAAsB,c;MACt
B,EAAE,eAAF,IAAqB,a;MACrB,EAAE,iBAAF,IAAuB,e;MACvB,EAAE,oBAAF,IA0B,kB;MC1B,EAAE,eA
AF,IAAqB,a;MACrB,EAAE,gBAAF,IAAsB,c;MACtB,EAAE,oBAAF,IA0B,kB;MC1B,EAAE,MAAF,IAAY,I;
MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAA
F,IAAgB,Q;MAChB,OAAO,C;K;8GAuBX,6D;MAEuC,oB;QAAA,OAAgB,E;MAAI,oB;QAAA,OAAgB,I;MAA
M,sB;QAAA,SAAe,C;MAAG,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K
;MAC7K,QAAQ,E;MACR,EAAE,MAAF,IAAY,I;MACZ,EAAE,MAAF,IAAY,I;MACZ,EAAE,MAAF,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;M
ACd,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;
wECnbX,4B;MAEyE,iBAAY,KAAZ,C;K;wEAEzE,2B;MAEgG,iBAAY,IAAZ,C;K;wEAwBhG,oC;MAE+F,UAA
Y,KAAZ,IAAqB,M;K;wEAmFpH,2B;MAEqE,iBAAY,IAAZ,C;K;wEAErE,kC;MAE2E,UAAY,IAAZ,IAAoB,K;K
;wEAssC/F,4B;MAEyE,iBAAY,KAAZ,C;K;wEA0BzE,4B;MAEyE,iBAAY,KAAZ,C;K;wEAsBzE,4B;MAEuE,iB
AAY,KAAZ,C;K;wEAyBvE,4B;MAE6E,iBAAY,KAAZ,C;K;2FA4C7E,gD;MAEiC,qB;QAAA,QAAiD,I;MAAM,
uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MAClK,QAAQ,E;MACR,EA
AE,OAAF,IAAa,K;MACb,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;
MAChB,OAAO,C;K;uEA+BX,4B;MAEuE,iBAAY,KAAZ,C;K;wEAEvE,2B;MAE6F,iBAAY,IAAZ,C;K;wEAqN
7F,4B;MAEyE,iBAAY,KAAZ,C;K;wEAEzE,oC;MAE2F,UAAY,KAAZ,IAAqB,M;K;+FAuehH,wD;MAEmC,6B;
QAAA,gBAA8B,I;MAAM,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;M
ACjJ,QAAQ,E;MACR,EAAE,eAAF,IAAqB,a;MACrB,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MA
ClB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;uGAuIX,mB;MAEuC,uB;QAAA,UAAoB,K;MAAO,wD,QAAQ,E;
MACR,EAAE,SAAF,IAAe,O;MACf,OAAO,C;K;+HAyCX,iB;MAEmD,qB;QAAA,QAAkB,I;MACjE,qE,QAAQ,E;M
ACR,EAAE,OAAF,IAAa,K;MACb,OAAO,C;K;+FA0MX,sE;MAEmC,oB;QAAA,OAAgB,I;MAAM,wB;QAAA,
WA0+G4B,S;OA1+GwB,kB;QAAA,KAAc,E;MAAI,wB;QAAA,WAAoB,I;MAAM,sB;QAAA,SAAkB,S;MAAW,
uB;QAAA,UAAoB,I;MAAM,qB;QAAA,QAAiB,I;MAAM,oB;QAAA,OAAgB,I;MACnP,QAAQ,E;MACR,EAAE,
MAAF,IAAY,I;MACZ,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,IAAF,IAAU,U;MACV,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,
QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,OAAF,IAAa,K;MACb,EAAE,MAAF,IAAY,I;MACZ,EAAE,
MAAF,IAAY,I;MACZ,OAAO,C;K;qIAgDX,iB;MAEsD,qB;QAAA,QAAkB,I;MACpE,QAAQ,E;MACR,EAAE,OAAF,IA
Aa,K;MACb,OAAO,C;K;+FAkBX,sB;MAE2C,yB;QAAA,YAAmB,S;MAC1D,QAAQ,E;MACR,EAAE,SAAF,IAAe,O;MACf,
OAAO,C;K;wEAkCX,4B;MAEqF,iBAAY,KAAZ,C;K;yFAgCrF,4V;MAEgC,iC,4B;QAAA,QAAiB,I;MAAM,eA
A8B,I;MAAM,uB;QAAA,UAAoB,C;MAAG,uB;QAAA,UAAoB,C;MAAG,uB;QAAA,UAAoB,C;MAAG,uB;QAAA,UAA
gB,C;MAAG,sB;QAAA,SAAiB,C;MAAG,uB;QAAA,UAAkB,C;MAAG,6B;QAAA,gBAA8B,I;MAAM,sB;QAA
A,SAAkB,I;MAAM,uB;QAAA,UAAoB,K;MAAO,wB;QAAA,WAAqB,K;MAAO,sB;QAAA,SAAmB,K;MAAO,
uB;QAAA,UAAoB,K;MAAO,gC;QAAA,mBAA6B,K;MAAO,gC;QAAA,mBAA6B,K;MAAO,0B;QAAA,aAAuB,K;
MAAO,8B;QAAA,iBAA2B,K;MAAO,6B;QAAA,gBAA0B,K;MAAO,+B;QAAA,kBAA4B,K;MAAO,kC;QAA
A,qBA+B,K;MAAO,6B;QAAA,gBA0B,K;MAAO,8B;QAAA,iBA2B,K;MAAO,kC;QAAA,qBA+B,K;MA
AO,oB;QAAA,OAAgB,I;MAAM,sB;QAAA,SAAkB,C;MAAG,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;
MAAO,wB;QAAA,WAAqB,K;MAC9yB,QAAQ,E;MACR,EAAE,cAAF,IAAoB,Y;MACpB,EAAE,SAAF,IAAe,O
;MACf,EAAE,SAAF,IAAe,O;MACf,EAAE,SAAF,IAAe,O;MACf,EAAE,SAAF,IAAe,O;MACf,EAAE,QAAF,IA
Ac,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,eAAF,IAAqB,a;MACrB,EAAE,QAAF,IAAc,M;MACd,EAAE,S
AAF,IAAe,O;MACf,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,
EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,YAAF,IAAkB,U;MAClB,EAAE,
gBAAF,IAAsB,c;MACtB,EAAE,eAAF,IAAqB,a;MACrB,EAAE,iBAAF,IAuB,e;MACvB,EAAE,oBAAF,IA0B
,kB;MC1B,EAAE,eAAF,IAAqB,a;MACrB,EAAE,gBAAF,IAAsB,c;MACtB,EAAE,oBAAF,IA0B,kB;MC1B,
EAAE,MAAF,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,
U;MAClB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;wEAwEX,2B;MAE+D,iBAAY,IAAZ,C;K;iGA2D/D,gD;
MAEoC,qB;QAAA,QAAc,I;MAAM,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WA

AqB,K;MAClI,QAAQ,E;MACR,EAAE,OAAF,IAAa,K;MACb,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB
,U;MAClB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;qGA2BX,yD;MAEsC,sB;QAAA,SAAkB,E;MAAI,sB;Q
AAA,SAAkB,E;MAAI,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MAC5
J,QAAQ,E;MACR,EAAE,QAAF,IAAc,M;MACd,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EA
AE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;6GAuBX,oD;MAE0C,yB;QAAA,YA
AsB,K;MAAO,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACjJ,QAAQ
,E;MACR,EAAE,WAAF,IAAiB,S;MACjB,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,
UAAF,IAAgB,Q;MAChB,OAAO,C;K;2FAoFX,kF;MAEiC,uB;QAAA,UAAmB,E;MAAI,wB;QAAA,WAAoB,E;
MAAI,sB;QAAA,SAAe,C;MAAG,qB;QAAA,QAAc,C;MAAG,qB;QAAA,QAAc,I;MAAM,uB;QAAA,UAAoB,K;
MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACjN,QAAQ,E;MACR,EAAE,SAAF,IAAe,O;MA
Cf,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,QAAF,IAAc,M;MACd,EAAE,OAAF,IAAa,K;MACb,EAAE,OAAF,I
AAa,K;MACb,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAChB,O
AAO,C;K;iHAyBX,0D;MAEqE,sB;QAAA,SAAe,S;MAAW,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;
MAAO,wB;QAAA,WAAqB,K;MACzK,QAAQ,E;MACR,EAAE,SAAF,IAAe,O;MACf,EAAE,QAAF,IAAc,M;M
ACd,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;
wEAmXX,4B;MAEkE,iBAAY,KAAZ,C;K;wEAElE,2B;MAEoE,iBAAY,IAAZ,C;K;wEAUpE,4B;MAEsE,iBAA
Y,KAAZ,C;K;wEAEtE,2B;MAEwE,iBAAY,IAAZ,C;K;wEAaxE,4B;MAE+D,iBAAY,KAAZ,C;K;wEAE/D,2B;M
AEiE,iBAAY,IAAZ,C;K;mGA0CjE,8G;MAEqC,gC;QAAA,mBAooF8C,M;OApoFe,gC;QAAA,mBAmpFT,S;OA
npFyE,oC;QAAA,uBA8pFjE,S;OA9pF6I,2B;QAAA,cAAoB,S;MAAW,4B;QAAA,eAAqB,S;MAAW,6B;QAAA,g
BAyqFlO,K;OAxqFvE,QAAQ,E;MACR,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,kBAAF,IAAwB,gB;MACxB,
EAAE,sBAAF,IAA4B,oB;MAC5B,EAAE,aAAF,IAAmB,W;MACnB,EAAE,cAAF,IAAoB,Y;MACpB,EAAE,eA
AF,IAAqB,a;MACrB,OAAO,C;K;+FAwCX,mF;MAEmC,oB;QAAA,OAAa,I;MAAM,sB;QAAA,SAAkB,E;MAAI
,2B;QAAA,cAAuB,E;MAAI,sB;QAAA,SAAyC,I;MAAM,qB;QAAA,QAA6B,E;MAAW,uB;QAAA,UAAoB,K;M
AAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACxQ,QAAQ,E;MACR,EAAE,MAAF,IAAY,I;MA
CZ,EAAE,QAAF,IAAc,M;MACd,EAAE,aAAF,IAAmB,W;MACnB,EAAE,QAAF,IAAc,M;MACd,EAAE,OAAF,
IAAa,K;MACb,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAChB,O
AAO,C;K;6FA4BX,2B;MAEkC,+B;QAAA,kBAA4B,K;MAC1D,QAAQ,E;MACR,EAAE,iBAAF,IAAuB,e;MAC
vB,OAAO,C;K;2FA2DX,iE;MAEiC,wB;QAAA,WAAqB,K;MAAO,oB;QAAA,OAAe,C;MAAG,sB;QAAA,SAAk
B,E;MAAI,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MAC/K,QAAQ,E;
MACR,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,MAAF,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,SA
AF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;yFA8FX,6B;M
AEgC,oB;QAAA,OA+7E6C,S;OA/7EL,2B;QAAA,cCl2He,M;ODm2HnF,QAAQ,E;MACR,EAAE,MAAF,IAAY,I
;MACZ,EAAE,aAAF,IAAmB,W;MACnB,OAAO,C;K;wEAoDX,0B;MAE+D,iBAAY,GAAZ,C;K;wEAE/D,iC;M
AEqE,UAAY,GAAZ,IAAmB,K;K;+FAoDxF,oF;MAEmC,mB;QAAA,MAAe,I;MAAM,wB;QAAA,WAAoB,I;MA
AM,wB;QAAA,WAAoB,I;MAAM,mB;QAAA,MAAe,E;MAAI,2B;QAAA,cAAwB,I;MAAM,uB;QAAA,UAAoB,
K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACvO,QAAQ,E;MACR,EAAE,KAAF,IAAW,G
;MACX,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,KAAF,IAAW,G;MACX,EAA
E,aAAF,IAAmB,W;MACnB,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,
Q;MAChB,OAAO,C;K;iFAwNX,yC;MAE4B,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QA
AA,WAAqB,K;MACtG,QAAQ,E;MACR,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,U
AAF,IAAgB,Q;MAChB,OAAO,C;K;6FAwBX,iD;MAEkC,sB;QAAA,SAAe,I;MAAM,uB;QAAA,UAAoB,K;MA
AO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACjI,QAAQ,E;MACR,EAAE,QAAF,IAAc,M;MACd,
EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;uGA
SX,mB;MAEuC,uB;QAAA,UAAoB,K;MACvD,QAAQ,E;MACR,EAAE,SAAF,IAAe,O;MACf,OAAO,C;K;6GA
YX,kC;MAE0C,uB;QAAA,UAAoB,K;MAAO,oB;QAAA,OAAiB,K;MAAO,uB;QAAA,UAAoB,K;MAC7G,QAA
Q,E;MACR,EAAE,SAAF,IAAe,O;MACf,EAAE,MAAF,IAAY,I;MACZ,EAAE,SAAF,IAAe,O;MACf,OAAO,C;K
;wEAkEX,4B;MAE6D,iBAAY,KAAZ,C;K;wEAU7D,4B;MAEsE,iBAAY,KAAZ,C;K;wEAEtE,2B;MAEwE,iBA
AY,IAAZ,C;K;uGAsCxE,oH;MAEuC,yB;QAAA,YAAsB,K;MAAO,0B;QAAA,aAAuB,S;MAAW,6B;QAAA,gB

AA0B,S;MAAW,uB;QAAA,UAAoB,K;MAAO,iC;QAAA,oBAA8B,S;MAAW,qC;QAAA,wBAAkC,S;MAAW,+
B;QAAA,kBAAkC,S;MAC1R,QAAQ,E;MACR,EAAE,WAAF,IAAiB,S;MACjB,EAAE,YAAF,IAAkB,U;MAClB
,EAAE,eAAF,IAAqB,a;MACrB,EAAE,SAAF,IAAe,O;MACf,EAAE,mBAAF,IAAyB,iB;MACzB,EAAE,uBAAF,I
AA6B,qB;MAC7B,EAAE,iBAAF,IAAuB,e;MACvB,OAAO,C;K;mGAgFX,oB;MAEqC,wB;QAAA,WAAqB,K;M
ACtD,QAAQ,E;MACR,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;wEA+MX,2B;MAEiE,iBAAY,IAAZ,C;K;2
GAkCjE,c;MAEyC,kB;QAAA,KAAgB,S;MACrD,QAAQ,E;MACR,EAAE,IAAF,IAAU,E;MACV,OAAO,C;K;2F
AuMX,gB;MAGI,QAAQ,E;MACR,EAAE,MAAF,IAAY,I;MACZ,OAAO,C;K;wEAgBX,4B;MAEiE,iBAAY,KA
AZ,C;K;wEAEjE,oC;MAE4E,iBAAY,aAAZ,C;K;wEAuT5E,4B;MAEmE,iBAAY,KAAZ,C;K;uFA2CnE,sB;MAE
+B,iB;QAAA,IAAa,G;MAAK,iB;QAAA,IAAa,G;MAAK,iB;QAAA,IAAa,G;MAAK,iB;QAAA,IAAa,G;MAC9F,
QAAQ,E;MACR,EAAE,GAAF,IAAS,C;MACT,EAAE,GAAF,IAAS,C;MACT,EAAE,GAAF,IAAS,C;MACT,EA
AE,GAAF,IAAS,C;MACT,OAAO,C;K;qFA0CX,+B;MAE8B,iB;QAAA,IAAa,G;MAAK,iB;QAAA,IAAa,G;MAA
K,qB;QAAA,QAAiB,G;MAAK,sB;QAAA,SAAkB,G;MACtG,QAAQ,E;MACR,EAAE,GAAF,IAAS,C;MACT,EA
AE,GAAF,IAAS,C;MACT,EAAE,OAAF,IAAa,K;MACb,EAAE,QAAF,IAAc,M;MACd,OAAO,C;K;wEAOX,4B;
MAEmE,iBAAY,KAAZ,C;K;yFAiHnE,oB;MAEgC,wB;QAAA,WAy2B+C,M;OAx2B3E,QAAQ,E;MACR,EAAE
,UAAF,IAAgB,Q;MAChB,OAAO,C;K;6FAeX,+B;MAEkC,oB;QAAA,OAAgB,S;MAAW,mB;QAAA,MAAe,S;M
AAW,wB;QAAA,WAq1BR,M;OAp1B3E,QAAQ,E;MACR,EAAE,MAAF,IAAY,I;MACZ,EAAE,KAAF,IAAW,G
;MACX,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;6GAwCX,yD;MAE0C,qB;QAAA,QAAiB,E;MAAI,uB;QA
AA,UAAoB,K;MAAO,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACp
K,QAAQ,E;MACR,EAAE,OAAF,IAAa,K;MACb,EAAE,SAAF,IAAe,O;MACf,EAAE,SAAF,IAAe,O;MACf,EAA
E,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;yGAiCX,mC;MAEwC,qB;QAAA,QA2
wByD,Q;OA3wBK,sB;QAAA,SA2wBL,Q;OA3wBoE,wB;QAAA,WA4vBtF,M;OA3vB3E,QAAQ,E;MACR,EAA
E,OAAF,IAAa,K;MACb,EAAE,QAAF,IAAc,M;MACd,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;2FAYX,2B;
MAEiC,mB;QAAA,MAuwB0C,Q;OAvwBJ,0B;QAAA,aAAsB,S;MACzF,QAAQ,E;MACR,EAAE,KAAF,IAAW,
G;MACX,EAAE,YAAF,IAAkB,U;MAClB,OAAO,C;K;+GAYX,0B;MAE2C,uB;QAAA,UAqvBgC,Q;OArvBU,q
B;QAAA,QAqvBV,Q;OApvBvE,QAAQ,E;MACR,EAAE,SAAF,IAAe,O;MACf,EAAE,OAAF,IAAa,K;MACb,OA
AO,C;K;wEAgCX,4B;MAE+D,iBAAY,KAAZ,C;K;qFAyaY,qB;MAAQ,OAAU,S;K;6FAEd,qB;MAAQ,OAAc,a;
K;uFAEzB,qB;MAAQ,OAAW,U;K;iFASxB,qB;MAAQ,OAAG,E;K;iFAEX,qB;MAAQ,OAAQ,O;K;uFAEb,qB;M
AAQ,OAAW,U;K;uFAS3B,qB;MAAQ,OAAW,U;K;mFAErB,qB;MAAQ,OAAS,Q;K;qFAEhB,qB;MAAQ,OAAU
,S;K;yFAShB,qB;MAAQ,OAAY,W;K;uFAErB,qB;MAAQ,OAAW,U;K;+FAEf,qB;MAAQ,OAAe,c;K;uFAE3B,q
B;MAAQ,OAAW,U;K;uFAEnB,qB;MAAQ,OAAW,U;K;mFASrB,qB;MAAQ,OAAS,Q;K;iFAElB,qB;MAAQ,OA
AQ,O;K;6EAElB,qB;MAAQ,OAAM,K;K;uFAET,qB;MAAQ,OAAW,U;K;qFASlB,qB;MAAQ,OAAU,S;K;qFAEl
B,qB;MAAQ,OAAU,S;K;6EASR,qB;MAAQ,OAAM,K;K;mFAEX,qB;MAAQ,OAAS,Q;K;+EAEnB,qB;MAAQ,O
AAO,M;K;+EAS/B,qB;MAAQ,OAAO,M;K;iFAEd,qB;MAAQ,OAAQ,O;K;mFAEf,qB;MAAQ,OAAS,Q;K;mFAS
hB,qB;MAAQ,OAAQ,O;K;iFAEhB,qB;MAAQ,OAAQ,O;K;iFAEhB,qB;MAAQ,OAAQ,O;K;mFASd,qB;MAAQ,
OAAQ,O;K;+EAElB,qB;MAAQ,OAAM,K;K;+EAEb,qB;MAAQ,OAAO,M;K;iFAEd,qB;MAAQ,OAAQ,O;K;mF
AEf,qB;MAAQ,OAAS,Q;K;6EASd,qB;MAAQ,OAAM,K;K;qFAEV,qB;MAAQ,OAAU,S;K;mFAEnB,qB;MAAQ,
OAAS,Q;K;2FAEb,qB;MAAQ,OAAa,Y;K;6FAEpB,qB;MAAQ,OAAc,a;K;mFAE3B,qB;MAAQ,OAAS,Q;K;6EA
S1B,qB;MAAQ,OAAM,K;K;6EAEd,qB;MAAQ,OAAM,K;K;qFAEV,qB;MAAQ,OAAU,S;K;+EASjB,qB;MAAQ,
OAAO,M;K;mFAEb,qB;MAAQ,OAAS,Q;K;+EASrB,qB;MAAQ,OAAO,M;K;iFAEd,qB;MAAQ,OAAQ,O;K;iFA
SjB,qB;MAAQ,OAAO,M;K;6FAER,qB;MAAQ,OAAc,a;K;qFAE1B,qB;MAAQ,OAAU,S;K;iFASb,qB;MAAQ,O
AAO,M;K;uFAEZ,qB;MAAQ,OAAU,S;K;yFAS9B,qB;MAAQ,OAAY,W;K;+EAE1B,qB;MAAQ,OAAM,K;K;qF
AEX,qB;MAAQ,OAAS,Q;K;iFAEnB,qB;MAAQ,OAAO,M;K;+EASrB,qB;MAAQ,OAAO,M;K;6FAER,qB;MAA
Q,OAAc,a;K;qFAS1B,qB;MAAQ,OAAU,S;K;mFAEnB,qB;MAAQ,OAAS,Q;K;+EASX,qB;MAAQ,OAAO,M;K;
mFAEb,qB;MAAQ,OAAS,Q;K;iFASnB,qB;MAAQ,OAAO,M;K;qFAEZ,qB;MAAQ,OAAU,S;K;mFAEnB,qB;M
AAQ,OAAS,Q;K;kFASJ,qB;MAAQ,OAAQ,O;K;oFAEf,qB;MAAQ,OAAS,Q;K;8EAEpB,qB;MAAQ,OAAM,K;K
;oFAEV,qB;MAAQ,OAAU,S;K;mFASzC,qB;MAAQ,OAAS,Q;K;mFAEjB,qB;MAAQ,OAAS,Q;K;qFAEhB,qB;M
AAQ,OAAU,S;K;qFAElB,qB;MAAQ,OAAU,S;K;wIEx+M7E,wM;MAEiD,qB;QAAA,QAAkB,I;MAAM,sB;QAA
A,SAAmB,I;MAAM,2B;QAAA,cAAwB,I;MAAM,yB;QAAA,YAAsB,I;MAAM,0B;QAAA,aAAuB,I;MAAM,0B;

QAAA,aAAuB,I;MAAM,sB;QAAA,SAAmB,I;MAAM,0B;QAAA,aAAuB,I;MAAM,0B;QAAA,aAAuB,I;MAAM,
gC;QAAA,mBAA6B,I;MAAM,+B;QAAA,kBAA4B,I;MAAM,gC;QAAA,mBAA6B,I;MAAM,uB;QAAA,UAAoB
,I;MAAM,4B;QAAA,eAAyB,I;MAAM,wB;QAAA,WAAqB,I;MAAM,uB;QAAA,UAAoB,I;MACrf,QAAQ,E;MA
CR,EAAE,OAAF,IAAa,K;MACb,EAAE,QAAF,IAAc,M;MACd,EAAE,aAAF,IAAmB,W;MACnB,EAAE,WAAF,
IAAiB,S;MACjB,EAAE,YAAF,IAAkB,U;MAClB,EAAE,YAAF,IAAkB,U;MAClB,EAAE,QAAF,IAAc,M;MACd
,EAAE,YAAF,IAAkB,U;MAClB,EAAE,YAAF,IAAkB,U;MAClB,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,iB
AAF,IAAuB,e;MACvB,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,SAAF,IAAe,O;MACf,EAAE,cAAF,IAAoB,Y;
MACpB,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,SAAF,IAAe,O;MACf,OAAO,C;K;wHAsDX,wM;MAEyC,qB;Q
AAA,QAAqB,S;MAAW,sB;QAAA,SAAsB,S;MAAW,2B;QAAA,cAA4B,S;MAAW,yB;QAAA,YAA0B,S;MAA
W,0B;QAAA,aAA6B,S;MAAW,0B;QAAA,aAA6B,S;MAAW,sB;QAAA,SAAuB,S;MAAW,0B;QAAA,aAA0B,S;
MAAW,0B;QAAA,aAA0B,S;MAAW,gC;QAAA,mBAAoC,S;MAAW,+B;QAAA,kBAAmC,S;MAAW,gC;QAAA
,mBAAoC,S;MAAW,uB;QAAA,UAAwB,S;MAAW,4B;QAAA,eAA4B,S;MAAW,wB;QAAA,WAAoB,S;MAAW
,uB;QAAA,UAAmB,S;MACtnB,QAAQ,E;MACR,EAAE,OAAF,IAAa,K;MACb,EAAE,QAAF,IAAc,M;MACd,E
AAE,aAAF,IAAmB,W;MACnB,EAAE,WAAF,IAAiB,S;MACjB,EAAE,YAAF,IAAkB,U;MAClB,EAAE,YAAF,I
AAkB,U;MAClB,EAAE,QAAF,IAAc,M;MACd,EAAE,YAAF,IAAkB,U;MAClB,EAAE,YAAF,IAAkB,U;MAClB
,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,iBAAF,IAAuB,e;MACvB,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,
SAAF,IAAe,O;MACf,EAAE,cAAF,IAAoB,Y;MACpB,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,SAAF,IAAe,O;M
ACf,OAAO,C;K;sHAYX,kN;MAEwC,wB;QAAA,WAA4C,S;MAAW,qB;QAAA,QAAAiB,S;MAAW,sB;QAAA,S
AAkB,S;MAAW,2B;QAAA,cAAuB,S;MAAW,yB;QAAA,YAAqB,S;MAAW,0B;QAAA,aAAsB,S;MAAW,0B;Q
AAA,aAAsB,S;MAAW,sB;QAAA,SAAkB,S;MAAW,0B;QAAA,aAAsB,S;MAAW,0B;QAAA,aAAsB,S;MAAW,
gC;QAAA,mBAA4B,S;MAAW,+B;QAAA,kBAA2B,S;MAAW,gC;QAAA,mBAA4B,S;MAAW,uB;QAAA,UAA
mB,S;MAAW,4B;QAAA,eAAwB,S;MAAW,wB;QAAA,WAAoB,S;MAAW,uB;QAAA,UAAmB,S;MAC9lB,QA
AQ,E;MACR,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,OAAF,IAAa,K;MACb,EAAE,QAAF,IAAc,M;MACd,EAA
E,aAAF,IAAmB,W;MACnB,EAAE,WAAF,IAAiB,S;MACjB,EAAE,YAAF,IAAkB,U;MAClB,EAAE,YAAF,IAA
kB,U;MAClB,EAAE,QAAF,IAAc,M;MACd,EAAE,YAAF,IAAkB,U;MAClB,EAAE,YAAF,IAAkB,U;MAClB,E
AAE,kBAAF,IAAwB,gB;MACxB,EAAE,iBAAF,IAAuB,e;MACvB,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,S
AAF,IAAe,O;MACf,EAAE,cAAF,IAAoB,Y;MACpB,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,SAAF,IAAe,O;MA
Cf,OAAO,C;K;0HAsDX,wM;MAE0C,qB;QAAA,QAAAiB,S;MAAW,sB;QAAA,SAAkB,S;MAAW,2B;QAAA,cA
AuB,S;MAAW,yB;QAAA,YAAqB,S;MAAW,0B;QAAA,aAAsB,S;MAAW,0B;QAAA,aAAsB,S;MAAW,sB;QA
AA,SAAkB,S;MAAW,0B;QAAA,aAAsB,S;MAAW,0B;QAAA,aAAsB,S;MAAW,gC;QAAA,mBAA4B,S;MAAW
,+B;QAAA,kBAA2B,S;MAAW,gC;QAAA,mBAA4B,S;MAAW,uB;QAAA,UAAmB,S;MAAW,4B;QAAA,eAAw
B,S;MAAW,wB;QAAA,WAAoB,S;MAAW,uB;QAAA,UAAmB,S;MACziB,QAAQ,E;MACR,EAAE,OAAF,IAAa
,K;MACb,EAAE,QAAF,IAAc,M;MACd,EAAE,aAAF,IAAmB,W;MACnB,EAAE,WAAF,IAAiB,S;MACjB,EAA
E,YAAF,IAAkB,U;MAClB,EAAE,YAAF,IAAkB,U;MAClB,EAAE,QAAF,IAAc,M;MACd,EAAE,YAAF,IAAkB,
U;MAClB,EAAE,YAAF,IAAkB,U;MAClB,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,iBAAF,IAAuB,e;MACvB,
EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,SAAF,IAAe,O;MACf,EAAE,cAAF,IAAoB,Y;MACpB,EAAE,UAAF,I
AAgB,Q;MAChB,EAAE,SAAF,IAAe,O;MACf,OAAO,C;K;gHAyDX,wM;MAEqC,qB;QAAA,QAAAc,S;MAAW,s
B;QAAA,SAAAe,S;MAAW,2B;QAAA,cAAuB,S;MAAW,yB;QAAA,YAAqB,S;MAAW,0B;QAAA,aAAsB,S;MA
AW,0B;QAAA,aAAsB,S;MAAW,sB;QAAA,SAAkB,S;MAAW,0B;QAAA,aAAmB,S;MAAW,0B;QAAA,aAAmB
,S;MAAW,gC;QAAA,mBAA6B,S;MAAW,+B;QAAA,kBAA4B,S;MAAW,gC;QAAA,mBAA6B,S;MAAW,uB;Q
AAA,UAAmB,S;MAAW,4B;QAAA,eAAqB,S;MAAW,wB;QAAA,WAAoB,S;MAAW,uB;QAAA,UAAmB,S;MA
CxhB,QAAQ,E;MACR,EAAE,OAAF,IAAa,K;MACb,EAAE,QAAF,IAAc,M;MACd,EAAE,aAAF,IAAmB,W;MA
CnB,EAAE,WAAF,IAAiB,S;MACjB,EAAE,YAAF,IAAkB,U;MAClB,EAAE,YAAF,IAAkB,U;MAClB,EAAE,Q
AAF,IAAc,M;MACd,EAAE,YAAF,IAAkB,U;MAClB,EAAE,YAAF,IAAkB,U;MAClB,EAAE,kBAAF,IAAwB,g
B;MACxB,EAAE,iBAAF,IAAuB,e;MACvB,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,SAAF,IAAe,O;MACf,EA
AE,cAAF,IAAoB,Y;MACpB,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,SAAF,IAAe,O;MACf,OAAO,C;K;8HAqB
X,gD;MAEsE,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MAChJ,QAAQ,
E;MACR,EAAE,OAAF,IAAa,K;MACb,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UA

AF,IAAgB,Q;MAChB,OAAO,C;K;sIAoBX,gD;MAEgD,qB;QAAA,QAAiB,I;MAAM,uB;QAAA,UAAoB,K;MA
AO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACjJ,QAAQ,E;MACR,EAAE,OAAF,IAAa,K;MACb,
EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;wHA
wCX,wB;MAEyC,qB;QAAA,QAAiB,K;MAAO,qB;QAAA,QAAiB,K;MAC9E,QAAQ,E;MACR,EAAE,OAAF,IA
Aa,K;MACb,EAAE,OAAF,IAAa,K;MACb,OAAO,C;K;kGAyBX,oB;MAE8B,mB;QAAA,MAAe,S;MAAW,mB;Q
AAA,MAAe,S;MACnE,QAAQ,E;MACR,EAAE,KAAF,IAAW,G;MACX,EAAE,KAAF,IAAW,G;MACX,OAAO,
C;K;oHAYX,kC;MAEuC,qB;QAAA,QAAiB,S;MAAW,qB;QAAA,QAAiB,S;MAAW,mB;QAAA,MAAe,S;MAA
W,mB;QAAA,MAAe,S;MACpI,QAAQ,E;MACR,EAAE,OAAF,IAAa,K;MACb,EAAE,OAAF,IAAa,K;MACb,EA
AE,KAAF,IAAW,G;MACX,EAAE,KAAF,IAAW,G;MACX,OAAO,C;K;gGAYX,oB;MAE6B,mB;QAAA,MAAY
,S;MAAW,mB;QAAA,MAAY,S;MAC5D,QAAQ,E;MACR,EAAE,KAAF,IAAW,G;MACX,EAAE,KAAF,IAAW,G;MACX,
G;MACX,OAAO,C;K;kHAYX,kC;MAEsC,qB;QAAA,QAAc,S;MAAW,qB;QAAA,QAAc,S;MAAW,mB;QAAA,
MAAY,S;MAAW,mB;QAAA,MAAY,S;MACvH,QAAQ,E;MACR,EAAE,OAAF,IAAa,K;MACb,EAAE,OAAF,I
AAa,K;MACb,EAAE,KAAF,IAAW,G;MACX,EAAE,KAAF,IAAW,G;MACX,OAAO,C;K;gIAeX,wB;MAE6C,q
B;QAAA,QAAkB,S;MAAW,qB;QAAA,QAAkB,S;MACxF,QAAQ,E;MACR,EAAE,OAAF,IAAa,K;MACb,EAA
E,OAAF,IAAa,K;MACb,OAAO,C;K;oIAeX,wB;MAE+C,qB;QAAA,QAAiB,S;MAAW,qB;QAAA,QAAiB,S;MA
CxF,QAAQ,E;MACR,EAAE,OAAF,IAAa,K;MACb,EAAE,OAAF,IAAa,K;MACb,OAAO,C;K;4FAKX,Y;MAGI,
QAAQ,E;MACR,OAAO,C;K;oFAKX,Y;MAGI,QAAQ,E;MACR,OAAO,C;K;8FAKX,Y;MAGI,QAAQ,E;MACR,
OAAO,C;K;kGASX,oB;MAE8B,wB;QAAA,WAAkC,S;MAC5D,QAAQ,E;MACR,EAAE,UAAF,IAAgB,Q;MAC
hB,OAAO,C;K;4FAUmE,qB;MAAQ,OAAO,M;K;8FAEd,qB;MAAQ,OAAQ,O;K;4FASrB,qB;MAAQ,OAAO,M;
K;0GAER,qB;MAAQ,OAAc,a;K;8FAE7B,qB;MAAQ,OAAO,M;K;gGAEd,qB;MAAQ,OAAQ,O;K;8FASjB,qB;M
AAQ,OAAO,M;K;gHAEL,qB;MAAQ,OAAiB,gB;K;wGASrC,qB;MAAQ,OAAa,Y;K;0GAEpB,qB;MAAQ,OAAc
,a;K;wGAEvB,qB;MAAQ,OAAa,Y;K;oFCroB7F,4B;MAE6E,iBAAY,KAAZ,C;K;iGASnB,qB;MAAQ,OAAS,Q;
K;6FAEnB,qB;MAAQ,OAAO,M;K;+FAEd,qB;MAAQ,OAAQ,O;K;iGASF,qB;MAAQ,OAAU,S;K;+FAEnB,qB;
MAAQ,OAAS,Q;K;mGAS3B,qB;MAAQ,OAAW,U;K;mGAEnB,qB;MAAQ,OAAW,U;K;6GC1D/E,mb;MAEmC,
yB;QAAA,YAAkB,C;MAAG,qB;QAAA,QAAiB,G;MAAK,sB;QAAA,SAAkB,G;MAAK,wB;QAAA,WAAmB,G;
MAAI,kC;QAAA,qBAA6B,G;MAAI,qB;QAAA,QAAc,C;MAAG,qB;QAAA,QAAc,C;MAAG,qB;QAAA,QAAc,
C;MAAG,2B;QAAA,cAAuB,E;MAAI,yB;QAAA,YAAsB,K;MAAO,uB;QAAA,UAAgB,C;MAAG,uB;QAAA,UA
AgB,C;MAAG,uB;QAAA,UAAgB,C;MAAG,uB;QAAA,UAAgB,C;MAAG,sB;QAAA,SAAiB,C;MAAG,uB;QAA
A,UAAkB,C;MAAG,6B;QAAA,gBAA8B,I;MAAM,sB;QAAA,SAAkB,I;MAAM,uB;QAAA,UAAoB,K;MAAO,w
B;QAAA,WAAqB,K;MAAO,sB;QAAA,SAAmB,K;MAAO,uB;QAAA,UAAoB,K;MAAO,gC;QAAA,mBA6B,K
;MAAO,gC;QAAA,mBA6B,K;MAAO,0B;QAAA,aAAuB,K;MAAO,8B;QAAA,iBA2B,K;MAAO,6B;QAAA,g
BAA0B,K;MAAO,+B;QAAA,kBA4B,K;MAAO,kC;QAAA,qBA+B,K;MAAO,6B;QAAA,gBA0B,K;MAAO,
8B;QAAA,iBA2B,K;MAAO,kC;QAAA,qBA+B,K;MAAO,oB;QAAA,OAAgB,I;MAAM,sB;QAAA,SAAe,C;
MAAG,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACl/B,QAAQ,E;M
ACR,EAAE,WAAF,IAAiB,S;MACjB,EAAE,OAAF,IAAa,K;MACb,EAAE,QAAF,IAAc,M;MACd,EAAE,UAAF,
IAAgB,Q;MAChB,EAAE,oBAAF,IAA0B,kB;MAC1B,EAAE,OAAF,IAAa,K;MACb,EAAE,OAAF,IAAa,K;MAC
b,EAAE,OAAF,IAAa,K;MACb,EAAE,aAAF,IAAmB,W;MACnB,EAAE,WAAF,IAAiB,S;MACjB,EAAE,SAAF,I
AAe,O;MACf,EAAE,SAAF,IAAe,O;MACf,EAAE,SAAF,IAAe,O;MACf,EAAE,SAAF,IAAe,O;MACf,EAAE,QA
AF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,eAAF,IAAqB,a;MACrB,EAAE,QAAF,IAAc,M;MACd,E
AAE,SAAF,IAAe,O;MACf,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O
;MACf,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,YAAF,IAAkB,U;MAClB,
EAAE,gBAAF,IAAsB,c;MACtB,EAAE,eAAF,IAAqB,a;MACrB,EAAE,iBAAF,IAAuB,e;MACvB,EAAE,oBAAF,
IAA0B,kB;MAC1B,EAAE,eAAF,IAAqB,a;MACrB,EAAE,gBAAF,IAAsB,c;MACtB,EAAE,oBAAF,IAA0B,kB;
MAC1B,EAAE,MAAF,IAAY,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,
IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;6GC1BX,0C;MAEwC,oB;QAAA,OAAiB,I;MAAM,sB;QAAA,SAAmB,K;MAAO,uB;QAAA,UAAoB,K;MAAO,uB;QAAA,UAAoB,K;MACpI,QAAQ,E;MACR,EAAE,MAAF,IAAY,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,SAAF,IAAe,O;M
ACf,OAAO,C;K;4EAmIX,4B;MAEkE,iBAAY,KAAZ,C;K;4EAElE,qC;MAE2E,UAAY,KAAZ,IAAkB,Q;K;4EAi

BhG,4B;MAEuE,iBAAY,KAAZ,C;K;4EAEvE,qC;MAE+E,UAAY,KAAZ,IAAqB,O;K;4EAiBpG,4B;MAEuE,iBA
AY,KAAZ,C;K;4EAEvE,qC;MAE+E,UAAY,KAAZ,IAAqB,O;K;4EAiGpG,4B;MAEoE,iBAAY,KAAZ,C;K;2EA
EpE,qC;MAE4E,UAAY,KAAZ,IAAqB,O;K;4EAkcjG,4B;MAE6E,iBAAY,KAAZ,C;K;4EAE7E,qC;MAEqF,UAA
Y,KAAZ,IAAqB,O;K;4EAgP1G,4B;MAEqE,iBAAY,KAAZ,C;K;4EAErE,qC;MAE6E,UAAY,KAAZ,IAAqB,O;K
;uFJ57BlG,+H;MAE8B,sB;QAAA,SAAkB,S;MAAW,uB;QAAA,UAAmB,S;MAAW,oB;QAAA,OAAgB,S;MAA
W,wB;QAAA,WAAoB,S;MAAW,8B;QAAA,iBAA0B,S;MAAW,oB;QAAA,OAAqB,S;MAAW,2B;QAAA,cAAm
C,S;MAAW,qB;QAAA,QAAuB,S;MAAW,wB;QAAA,WAA6B,S;MAAW,yB;QAAA,YAAqB,S;MAAW,yB;QA
AA,YAAsB,S;MAAW,wB;QAAA,WAAe,S;MAC5Z,QAAQ,E;MACR,EAAE,QAAF,IAAc,M;MACd,EAAE,SAA
F,IAAe,O;MACf,EAAE,MAAF,IAAY,I;MACZ,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,gBAAF,IAAsB,c;MACt
B,EAAE,MAAF,IAAY,I;MACZ,EAAE,aAAF,IAAmB,W;MACnB,EAAE,OAAF,IAAa,K;MACb,EAAE,UAAF,IA
AgB,Q;MAChB,EAAE,WAAF,IAAiB,S;MACjB,EAAE,WAAF,IAAiB,S;MACjB,EAAE,QAAF,IAAc,Q;MACd,O
AAO,C;K;yFA0CX,uC;MAE+B,sB;QAAA,SAAiB,G;MAAK,0B;QAAA,aAAsB,I;MAAM,uB;QAAA,UAAmB,S;
MAChG,QAAQ,E;MACR,EAAE,QAAF,IAAc,M;MACd,EAAE,YAAF,IAAkB,U;MAClB,EAAE,SAAF,IAAe,O;
MACf,OAAO,C;K;qFAUgD,qB;MAAQ,OAAG,E;K;mFAEX,qB;MAAQ,OAAQ,O;K;iFAEjB,qB;MAAQ,OAAO,
M;K;mFAEd,qB;MAAQ,OAAQ,O;K;qFAEf,qB;MAAQ,OAAS,Q;K;mFAElB,qB;MAAQ,OAAQ,O;K;mFAEhB,q
B;MAAQ,OAAQ,O;K;mFAEhB,qB;MAAQ,OAAQ,O;K;qFASF,qB;MAAQ,OAAG,E;K;yFAER,qB;MAAQ,OAA
W,U;K;mFAEtB,qB;MAAQ,OAAQ,O;K;mFAEjB,qB;MAAQ,OAAO,M;K;qFAEd,qB;MAAQ,OAAQ,O;K;yFAEb
,qB;MAAQ,OAAW,U;K;mFAEtB,qB;MAAQ,OAAQ,O;K;qFAEf,qB;MAAQ,OAAS,Q;K;qFAEjB,qB;MAAQ,OA
AS,Q;K;uFAEjB,qB;MAAQ,OAAS,Q;K;mGAEV,qB;MAAQ,OAAgB,e;K;iGAEzB,qB;MAAQ,OAAe,c;K;qFAE9
B,qB;MAAQ,OAAQ,O;K;qFAEf,qB;MAAQ,OAAS,Q;K;iFAEnB,qB;MAAQ,OAAO,M;K;yFASzB,qB;MAAQ,O
AAW,U;K;+FAEhB,qB;MAAQ,OAAc,a;K;uFAE1B,qB;MAAQ,OAAU,S;K;iFAErB,qB;MAAQ,OAAO,M;K;iFA
SD,qB;MAAQ,OAAO,M;K;iGAER,qB;MAAQ,OAAc,a;K;uFAE1B,qB;MAAQ,OAAU,S;K;yFAS9B,qB;MAAQ,
OAAU,S;K;yFAEjB,qB;MAAQ,OAAW,U;K;qFAErB,qB;MAAQ,OAAS,Q;K;yFAEf,qB;MAAQ,OAAW,U;K;+F
AEhB,qB;MAAQ,OAAc,a;K;qGAEnB,qB;MAAQ,OAAiB,gB;K;qFAS3B,qB;MAAQ,OAAS,Q;K;mFAElB,qB;M
AAQ,OAAQ,O;K;uFAEf,qB;MAAQ,OAAS,Q;K;mFASxB,qB;MAAQ,OAAQ,O;K;mFAEjB,qB;MAAQ,OAAO,
M;K;yFAEZ,qB;MAAQ,OAAU,S;K;qFAEpB,qB;MAAQ,OAAQ,O;K;qFAEf,qB;MAAQ,OAAS,Q;K;qGAET,qB;
MAAQ,OAAiB,gB;K;+FKnR/F,gB;MAEkC,oB;QAAA,OAAgB,E;MAC9C,QAAQ,E;MACR,EAAE,MAAF,IAA
Y,I;MACZ,OAAO,C;K;+FAiBX,8B;MAEkC,4B;QAAA,eAAqB,S;MAAW,oB;QAAA,OAAgB,E;MAC9E,QAAQ,
E;MACR,EAAE,cAAF,IAAoB,Y;MACpB,EAAE,MAAF,IAAY,I;MACZ,OAAO,C;K;0EAUX,4B;MAE6D,iBAA
Y,KAAZ,C;K;+GC6B7D,sJ;MAEsC,mB;QAAA,MA4GuD,M;OA5GG,oB;QAAA,OAAgB,E;MAAI,oB;QAAA,O
AAgB,E;MAAI,mB;QAAA,MAAe,E;MAAI,qB;QAAA,QAAiB,S;MAAW,oB;QAAA,OAAgB,S;MAAW,qB;QA
AA,QAAiB,S;MAAW,qB;QAAA,QAAiB,S;MAAW,uB;QAAA,UAAmB,S;MAAW,yB;QAAA,YAAqB,S;MAA
W,wB;QAAA,WAAqB,K;MAAO,sB;QAAA,SAAmB,K;MAAO,wB;QAAA,WAAqB,K;MAAO,kC;QAAA,qBAA
+B,K;MAAO,sB;QAAA,SAAmB,K;MAAO,oB;QAAA,OAAa,I;MAAM,uB;QAAA,UAAsC,E;MAC/gB,QAAQ,E;
MACR,EAAE,KAAF,IAAW,G;MACX,EAAE,MAAF,IAAY,I;MACZ,EAAE,MAAF,IAAY,I;MACZ,EAAE,KAA
F,IAAW,G;MACX,EAAE,OAAF,IAAa,K;MACb,EAAE,MAAF,IAAY,I;MACZ,EAAE,OAAF,IAAa,K;MACb,EA
AE,OAAF,IAAa,K;MACb,EAAE,SAAF,IAAe,O;MACf,EAAE,WAAF,IAAiB,S;MACjB,EAAE,UAAF,IAAgB,Q;
MAChB,EAAE,QAAF,IAAc,M;MACd,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,oBAAF,IAA0B,kB;MAC1B,EAA
E,QAAF,IAAc,M;MACd,EAAE,MAAF,IAAY,I;MACZ,EAAE,SAAF,IAAe,O;MACf,OAAO,C;K;6GAWX,+B;M
AEsE,oB;QAAA,OAAgB,S;MAClF,QAAQ,E;MACR,EAAE,QAAF,IAAc,M;MACd,EAAE,OAAF,IAAa,K;MAC
b,EAAE,MAAF,IAAY,I;MACZ,OAAO,C;K;qHASX,e;MAEyC,mB;QAAA,MAAe,E;MACpD,QAAQ,E;MACR,E
AAE,KAAF,IAAW,G;MACX,OAAO,C;K;mHAyBX,+D;MAEqE,sB;QAAA,SAAkB,E;MAAI,uB;QAAA,UAAoB
,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACrK,QAAQ,E;MACR,EAAE,cAAF,IAAoB,Y
;MACpB,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UA
AF,IAAgB,Q;MAChB,OAAO,C;K;iGAUwE,qB;MAAQ,OAAU,S;K;6FAEnB,qB;MAAQ,OAAS,Q;K;+FAEhB,q
B;MAAQ,OAAU,S;K;2FASvB,qB;MAAQ,OAAO,M;K;yFAEhB,qB;MAAQ,OAAM,K;K;yFAEd,qB;MAAQ,OA
AM,K;K;yGCrJ3F,uB;MAEsC,qB;QAAA,QAAiB,S;MAAW,oB;QAAA,ORy9MW,S;OQx9MzE,QAAQ,E;MACR
,EAAE,OAAF,IAAa,K;MACb,EAAE,MAAF,IAAY,I;MACZ,OAAO,C;K;6HAuCX,mF;MAEgD,oB;QAAA,OAA

a,S;MAAW,sB;QAAA,SAAkB,S;MAAW,2B;QAAA,cAAuB,S;MAAW,sB;QAAA,SAA2C,S;MAAW,qB;QAAA,
QAA6B,S;MAAW,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MAC/S,Q
AAQ,E;MACR,EAAE,MAAF,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,aAAF,IAAmB,W;MACnB,E
AAE,QAAF,IAAc,M;MACd,EAAE,OAAF,IAAa,K;MACb,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;
MAClB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;uGA2DX,qC;MAEqC,mC;QAAA,sBAAgC,K;MAAO,oB;
QAAA,OA4UD,Q;OA3UvE,QAAQ,E;MACR,EAAE,qBAAF,IAA2B,mB;MAC3B,EAAE,MAAF,IAAY,I;MACZ,
OAAO,C;K;yGAmBX,yC;MAEsC,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAq
B,K;MAChH,QAAQ,E;MACR,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAg
B,Q;MAChB,OAAO,C;K;yGAsBX,2B;MAGI,QAAQ,E;MACR,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe
,O;MACf,OAAO,C;K;+FA8BX,sE;MAEoD,wB;QAAA,WAAoB,I;MAAM,wB;QAAA,WAAqB,K;MAAO,uB;QA
AA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACpL,QAAQ,E;MACR,EAAE,SA
AF,IAAe,O;MACf,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,SAAF,IAAe,O;MA
Cf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;6GAuBX,0D;MAE2D,sB;QAA
A,SAAkB,M;MAAQ,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MAC/J,
QAAQ,E;MACR,EAAE,SAAF,IAAe,O;MACf,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,
YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;2GAaX,qC;MAE4D,sB;QAAA,SAAkB,S;
MAAW,uB;QAAA,UAA0B,S;MAC/G,QAAQ,E;MACR,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,QAAF,IAAc,M;
MACd,EAAE,SAAF,IAAe,O;MACf,OAAO,C;K;uHAuCX,mF;MAE6C,oB;QAAA,OAAa,S;MAAW,sB;QAAA,S
AAkB,S;MAAW,2B;QAAA,cAAuB,S;MAAW,sB;QAAA,SAAmD,S;MAAW,qB;QAAA,QAA6B,S;MAAW,uB;Q
AAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACpT,QAAQ,E;MACR,EAAE,M
AAF,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,aAAF,IAAmB,W;MACnB,EAAE,QAAF,IAAc,M;MA
Cd,EAAE,OAAF,IAAa,K;MACb,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IA
AgB,Q;MAChB,OAAO,C;K;qGA+BX,6D;MAEoC,4B;QAAA,eAAyB,K;MAAO,4B;QAAA,eAAyB,K;MAAO,0B
;QAAA,aAAuB,K;MAAO,yB;QAAA,YAAqB,S;MACnJ,QAAQ,E;MACR,EAAE,cAAF,IAAoB,Y;MACpB,EAA
E,cAAF,IAAoB,Y;MACpB,EAAE,YAAF,IAAkB,U;MAClB,EAAE,WAAF,IAAiB,S;MACjB,OAAO,C;K;yGAkB
X,4C;MAEsC,oB;QAAA,OAAgB,S;MAAW,uB;QAAA,UAAoB,S;MAAW,wB;QAAA,WAAsB,S;MAAW,uB;QA
AA,UAA8B,S;MAC3J,QAAQ,E;MACR,EAAE,MAAF,IAAY,I;MACZ,EAAE,SAAF,IAAe,O;MACf,EAAE,UAA
F,IAAgB,Q;MAChB,EAAE,SAAF,IAAe,O;MACf,OAAO,C;K;+FAkCmE,qB;MAAQ,OAAa,Y;K;6FAEtB,qB;MA
AQ,OAAY,W;K;+FAEnB,qB;MAAQ,OAAa,Y;K;6FAEtB,qB;MAAQ,OAAY,W;K;6FAEpB,qB;MAAQ,OAAY,
W;K;6FAStC,qB;MAAQ,OAAY,W;K;6FAEpB,qB;MAAQ,OAAY,W;K;uFAEvB,qB;MAAQ,OAAS,Q;K;qFAEn
B,qB;MAAQ,OAAO,M;K;uFASX,qB;MAAQ,OAAS,Q;K;yFAEjB,qB;MAAQ,OAAS,Q;K;qGAEX,qB;MAAQ,O
AAe,c;K;iFAEhC,qB;MAAQ,OAAM,K;K;iGCharE,0E;MAEoC,gC;QAAA,mBAA6B,K;MAAO,sB;QAAA,SAAk
B,C;MAAG,qB;QAAA,QAAiB,C;MAAG,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA
,WAAqB,K;MAC3L,QAAQ,E;MACR,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,QAAF,IAAc,M;MACd,EAAE,
OAAF,IAAa,K;MACb,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MA
ChB,OAAO,C;K;mFAU8E,qB;MAAQ,OAAG,E;K;+FAEL,qB;MAAQ,OAAc,a;K;iFAE7B,qB;MAAQ,OAAO,M;
K;yFAEX,qB;MAAQ,OAAW,U;K;+EAEvB,qB;MAAQ,OAAO,M;K;+EAEf,qB;MAAQ,OAAO,M;K;oErIjIvG,yB
;MAAA,kF;MAAA,0B;MAAA,uB;QAaI,IAAI,OAAO,CAAP,IAA8B,OAAO,KAAzC,C;UACI,MAAM,8BAAyB,
wBAAqB,IAA9C,C;SAEV,OAAY,OAAL,IAAK,C;O;KAhBhB,C;0EAwCiC,qB;MAAQ,OAAA,SAAK,I;K;IsIpB
V,6B;MAAC,qB;QAAA,8C;MAAA,kB;K;IACjC,2C;MAAA,e;MAAA,iB;MAAA,uB;K;IAAA,yC;MAAA,4C;O;
MAKI,0E;MAEA,sE;K;;IAFA,kD;MAAA,+B;MAAA,0C;K;;IAEA,gD;MAAA,+B;MAAA,wC;K;;IAPJ,qC;MAA
A,yF;K;;IAAA,0C;MAAA,a;aAAA,S;UAAA,+C;aAAA,O;UAAA,6C;gBAAA,8D;;K;;;IAyBmC,sC;MACnC,8B;K
;;IAMqC,sC;MACrC,8B;K;;IC1DJ,iC;K;;ICMA,4B;K;;IA6BA,gD;K;;IC5BA,qC;K;;IA4BA,+B;K;;ICRqC,uC;MA
CjC,uB;QAAA,UAAsB,E;MACtB,qB;QAAA,+C;MADA,sB;MACA,kB;K;IAEA,4C;MAAA,e;MAAA,iB;MAAA,
uB;K;IAAA,0C;MAAA,6C;O;MAKI,4E;MAGA,wE;K;;IAHA,mD;MAAA,gC;MAAA,2C;K;;IAGA,iD;MAAA,gC
;MAAA,yC;K;;IARJ,sC;MAAA,2F;K;;IAAA,2C;MAAA,a;aAAA,S;UAAA,gD;aAAA,O;UAAA,8C;gBAAA,+D;;
K;;;IAyByB,4B;MACzB,8B;K;;IC/C4C,8B;K;kDAI5C,mB;MAA6D,c;;QpJ2rD7C,Q;QADhB,IAAI,mCAAsB,cAA
1B,C;UAAqC,aAAO,K;UAAP,e;SACrB,sB;QAAhB,OAAgB,cAAhB,C;UAAgB,2B;UAAM,IoJ3rD6C,OpJ2rD/B,

SoJ3rD+B,UpJ2rD7C,C;YAAwB,aAAO,I;YAAP,e;;QAC9C,aAAO,K;;;MoJ5rDsD,iB;K;uDAE7D,oB;MACa,c;;Qp
JmqDG,Q;QADhB,IAAI,coJlqDA,QpJkqDA,iBoJlqDA,QpJkqDsB,UAA1B,C;UAAqC,aAAO,I;UAAP,e;SACrB,O
oJnqDZ,QpJmqDY,W;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,CoJnqDP,oBpJmqDkB,OoJnqDlB,Cp
JmqDG,C;YAAyB,aAAO,K;YAAP,e;;QAC/C,aAAO,I;;;MoJpqDH,iB;K;2CAEJ,Y;MAAkC,qBAAQ,C;K;IAEqB,q
E;MAAA,qB;QAC3D,OAAI,OAAO,uBAAX,GAAiB,mBAAjB,GAA6C,SAAH,EAAG,C;O;K;4CADjD,Y;MAAk
C,4BAAa,IAAb,EAAmB,GAAnB,EAAwB,GAAxB,kBAA6B,wCAA7B,C;K;2CAIlC,Y;MAI4C,uBAAgB,IAAhB,
C;K;mDAE5C,iB;MAI4D,yBAAgB,IAAhB,EAAsB,KAAtB,C;K;;IC/BhE,8B;MAAA,e;MAAA,iB;MAAA,uB;K;I
AAA,4B;MAAA,+B;O;MACI,4C;MACA,kD;MACA,0C;MACA,8C;K;;IAHA,mC;MAAA,kB;MAAA,2B;K;;IAC
A,sC;MAAA,kB;MAAA,8B;K;;IACA,kC;MAAA,kB;MAAA,0B;K;;IACA,oC;MAAA,kB;MAAA,4B;K;;IAJJ,wB;
MAAA,sH;K;;IAAA,6B;MAAA,a;aAAA,O;UAAA,gC;aAAA,U;UAAA,mC;aAAA,M;UAAA,+B;aAAA,Q;UAAA
,iC;gBAAA,6D;;K;;IAOA,4B;MAKI,mD;MACA,2BAA4B,I;K;yCAE5B,Y;MAEiB,IAAN,I;M3JUX,IAAI,E2JXQ,
mD3JWR,CAAJ,C;QACI,cAda,qB;QAeb,MAAM,gCAAyB,OAAQ,WAAjC,C;O2JZC,QAAM,oBAAN,M;aACH,
M;UAAc,Y;UAAd,K;aACA,O;UAAe,W;UAAf,K;gBACQ,wC;UAHL,K;;MAAP,W;K;sCAOJ,Y;MAIW,Q;MAHP
,IAAI,CAAC,cAAL,C;QAAgB,MAAM,6B;MACtB,mD;MAEA,OAAO,2F;K;4DAGX,Y;MACI,iD;MACA,kB;M
ACA,OAAO,kD;K;+CAeX,iB;MAII,2BAAY,K;MACZ,gD;K;sCAGJ,Y;MAII,+C;K;;ICjDkC,wB;MAoFtC,oC;MA
pFgE,6B;K;sCAIhE,Y;MAAuC,0C;K;2CAEvC,mB;MAAwD,uB;;QtJkU3C,Q;QADb,YAAY,C;QACC,sB;QAAb,
OAAa,cAAb,C;UAAa,sB;UACT,IsJnUmE,OtJmUrD,IsJnUqD,UtJmUnE,C;YACI,sBAAO,K;YAAP,wB;WACJ,qB
;;QAEJ,sBAAO,E;;;MsJvUiD,0B;K;+CAExD,mB;MAA4D,sB;;QtJ2V5D,eAAoB,0BAAa,SAAb,C;QACpB,OAAO
,QAAS,cAAhB,C;UACI,IsJ7VsE,OtJ6VxD,QAAS,WsJ7V+C,UtJ6VtE,C;YACI,qBAAO,QAAS,Y;YAAhB,uB;;Q
AGR,qBAAO,E;;;MsJjWqD,yB;K;0CAE5D,Y;MAA+C,+CAAiB,CAAjB,C;K;kDAE/C,iB;MAAyD,+CAAiB,KA
AjB,C;K;6CAEzD,8B;MAA8D,gCAAQ,IAAR,EAAc,SAAd,EAAyB,OAAzB,C;K;IAElC,wD;MAAgF,uB;MAA/E
,kB;MAAmC,4B;MAC5D,eAAyB,C;MAGrB,+DAAkB,gBAAlB,EAA6B,OAA7B,EAAsC,WAAK,KAA3C,C;MA
CA,eAAa,UAAU,gBAAV,I;K;iDAGjB,iB;MACI,+DAAkB,KAAlB,EAAyB,YAAzB,C;MAEA,OAAO,wBAAK,m
BAAY,KAAZ,IAAL,C;K;4FAGY,Y;MAAQ,mB;K;;oCAGnC,iB;MAMI,IAAI,UAAU,IAAd,C;QAAoB,OAAO,I;
MAC3B,IAAI,2BAAJ,C;QAAuB,OAAO,K;MAE9B,OAAO,2DAAc,IAAd,EAAoB,KAApB,C;K;sCAGX,Y;MAG
+B,oEAAgB,IAAhB,C;K;IAE/B,2C;MAAA,oB;MACI,eACsB,C;K;kDAEtB,Y;MAAkC,sBAAQ,gB;K;+CAE1C,Y
;MAEe,gB;MADX,IAAI,CAAC,cAAL,C;QAAgB,MAAM,6B;MACX,iE;MAAX,OAAO,+B;K;;IAO0B,sD;MAHz
C,oB;MAGwD,iD;MAGhD,gEAAmB,KAAnB,EAA0B,WAAkB,KAA5C,C;MACA,eAAa,K;K;0DAGjB,Y;MAAs
C,sBAAQ,C;K;wDAE9C,Y;MAAgC,mB;K;uDAEhC,Y;MACI,IAAI,CAAC,kBAAL,C;QAAoB,MAAM,6B;MAC
1B,OAAO,yBAAI,mCAAJ,EAAI,YAAJ,E;K;4DAGX,Y;MAAoC,sBAAQ,CAAR,I;K;;IAGxC,kC;MAAA,sC;K;iE
ACI,uB;MACI,IAAI,QAAQ,CAAR,IAAa,SAAS,IAA1B,C;QACI,MAAM,8BAA0B,YAAS,KAAT,gBAAuB,IAAj
D,C;Q;kEAId,uB;MACI,IAAI,QAAQ,CAAR,IAAa,QAAQ,IAAzB,C;QACI,MAAM,8BAA0B,YAAS,KAAT,gBA
AuB,IAAjD,C;Q;iEAId,oC;MACI,IAAI,YAAY,CAAZ,IAAiB,UAAU,IAA/B,C;QACI,MAAM,8BAA0B,gBAAa,S
AAb,mBAAkC,OAAlC,gBAAkD,IAA5E,C;OAEV,IAAI,YAAY,OAAhB,C;QACI,MAAM,gCAAyB,gBAAa,SAA
b,oBAAmC,OAA5D,C;Q;kEAId,sC;MACI,IAAI,aAAa,CAAb,IAAkB,WAAW,IAAjC,C;QACI,MAAM,8BAA0B,i
BAAc,UAAd,oBAAqC,QAArC,gBAAsD,IAAhF,C;OAEV,IAAI,aAAa,QAAjB,C;QACI,MAAM,gCAAyB,iBAAc,
UAAd,qBAAsC,QAA/D,C;Q;+DAId,a;MAEc,UACsB,M;MAFhC,iBAAe,C;MACL,mB;MAAV,OAAU,cAAV,C;
QAAU,mB;QACN,aAAW,MAAK,UAAL,SAAiB,6DAAiB,CAAlC,K;;MAEf,OAAO,U;K;6DAGX,oB;MAIiB,Q;
MAHb,IAAI,CAAE,KAAF,KAAU,KAAM,KAApB,C;QAA0B,OAAO,K;MAEjC,oBAAoB,KAAM,W;MACb,mB
;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,gBAAgB,aAAc,O;QAC9B,IAAI,cAAQ,SAAR,CAAJ,C;UACI,OAAO,K;
;MAGf,OAAO,I;K;;;IAjDf,8C;MAAAA,6C;QAAAA,4B;OAAAA,sC;K;;ICnFwC,uB;MAyHxC,mC;MAzCA,uBAC6B,I
;MAmC7B,yBACsC,I;K;8CAnHtC,e;MACI,OAAO,6BAAc,GAAAd,S;K;gDAGX,iB;MAAwE,gBAAR,Y;MAAQ,c;
;QvJkrDxD,Q;QADhB,IAAI,wCAAsB,mBAA1B,C;UAAqC,aAAO,K;UAAP,e;SACrB,2B;QAAhB,OAAgB,cAAh
B,C;UAAgB,yB;UAAM,IuJlrDwD,OvJkrD1C,OuJlrD6C,MAAH,QvJkrDxD,C;YAAwB,aAAO,I;YAAP,e;;QAC9
C,aAAO,K;;;MuJnrDyD,iB;K;kDAEhE,iB;MAEI,IAAI,gCAAJ,C;QAA+B,OAAO,K;MACtC,UAAU,KAAM,I;MA
ChB,YAAY,KAAM,M;MpKiNO,Q;MoKhNzB,epKgN4C,CAAnB,mDAAmB,YoKhNzB,GpKgNyB,C;MoK9M5C
,IAAI,eAAS,QAAT,CAAJ,C;QACI,OAAO,K;OAIP,6B;MAAA,W;QpK0NqB,U;QoK1ND,UpK0NoB,CAAnB,uD
AAmB,oBoK1NP,GpK0NO,C;OoK1N5C,W;QACI,OAAO,K;OAGX,OAAO,I;K;mCAIX,iB;MAMI,IAAI,UAAU,I

AAd,C;QAAoB,OAAO,I;MAC3B,IAAI,0BAAJ,C;QAAyB,OAAO,K;MAChC,IAAI,cAAQ,KAAM,KAAlB,C;QA
AwB,OAAO,K;MAEV,gBAAd,KAAM,Q;MAAQ,c;;QvJ6nDT,Q;QADhB,IAAI,wCAAsB,mBAA1B,C;UAAqC,a
AAO,I;UAAP,e;SACrB,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,CuJ7nDK,2BvJ6nDM,OuJ7nDN
,CvJ6nDT,C;YAAyB,aAAO,K;YAAP,e;;QAC/C,aAAO,I;;;MuJ9nDH,iB;K;sCAGJ,e;MAAwC,Q;MAAA,4CAAc,
GAAd,8B;K;qCAGxC,Y;MAK+B,OAAQ,SAAR,YAAQ,C;K;oCAEvC,Y;MAAkC,qBAAQ,C;K;mFACnB,Y;MA
AQ,OAAA,YAAQ,K;K;IAWnB,0E;MAAA,wC;MAAS,sB;K;8EACb,mB;MAAsD,+CAAY,OAAZ,C;K;IAI3C,sG;
MAAA,kD;K;8FACH,Y;MAAkC,OAAA,0BAAc,U;K;2FAChD,Y;MAAyB,OAAA,0BAAc,OAAO,I;K;;wEAJtD,
Y;MACI,oBAAoB,6BAAQ,W;MAC5B,+F;K;sHAMmB,Y;MAAQ,OAAA,qBAAiB,K;K;;mFAb5D,Y;MACI,IAAI
,4BAAJ,C;QACI,+E;OAcJ,OAAO,mC;K;IAOwD,uD;MAAA,qB;QAAE,2CAAS,EAAT,C;O;K;qCAAzE,Y;MAAk
C,OAAQ,eAAR,YAAQ,EAAa,IAAb,EAAmB,GAAnB,EAAwB,GAAxB,kBAA6B,iCAA7B,C;K;+CAE1C,iB;MA
AuD,+BAAS,KAAM,IAAf,IAAsB,GAAtB,GAA4B,wBAAS,KAAM,MAAf,C;K;+CAEnF,a;MAAwC,OAAI,MA
AM,IAAV,GAAgB,YAAhB,GAAoC,SAAF,CAAE,C;K;IAWtD,4E;MAAA,wC;MAAS,6B;K;gFACf,mB;MAAsE,
iDAAc,OAAd,C;K;IAI3D,wG;MAAA,kD;K;gGACH,Y;MAAkC,OAAA,0BAAc,U;K;6FAChD,Y;MAAyB,OAAA
,0BAAc,OAAO,M;K;;0EAJtD,Y;MACI,oBAAoB,6BAAQ,W;MAC5B,iG;K;wHAMmB,Y;MAAQ,OAAA,qBAAi
B,K;K;;qFAb5D,Y;MACI,IAAI,8BAAJ,C;QACI,mF;OAcJ,OAAO,qC;K;oDAMf,e;MAA8D,gBAAR,Y;MAAQ,sB
;;QvJiJ9C,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IuJjJsD,OvJiJxC,OuJjJ2C,IAAH,MvJiJtD,
C;YAAwB,qBAAO,O;YAAP,uB;;QAC9C,qBAAO,I;;;MuJlJ+C,yB;K;IAEtD,iC;MAAA,qC;K;4DAEI,a;MAAiE,g
C;MAAX,OAAU,CAAC,kBAAN,CAAM,0DAAmB,CAApB,KAA4B,oBAAjC,CAAiC,8DAAqB,CAAjD,C;K;4D
AChE,a;MAAyD,OAAU,SAAL,CAAO,IAAF,mBAAL,CAAY,MAAP,C;K;0DACnE,oB;MACI,IAAI,gCAAJ,C;Q
AA+B,OAAO,K;MACtC,OAAO,OAAA,CAAE,IAAF,EAAS,KAAM,IAAf,KAAsB,OAAA,CAAE,MAAF,EAAW
,KAAM,MAAjB,C;K;;;IANrC,6C;MAAA,4C;QAAA,2B;OAAA,qC;K;;IChIqC,uB;MAkBrC,mC;MAlB+D,6B;K;
mCAE/D,iB;MAMI,IAAI,UAAU,IAAd,C;QAAoB,OAAO,I;MAC3B,IAAI,0BAAJ,C;QAAsB,OAAO,K;MAC7B,
OAAO,sDAAU,IAAV,EAAgB,KAAhB,C;K;qCAGX,Y;MAG+B,qEAAkB,IAAlB,C;K;IAE/B,iC;MAAA,qC;K;gE
ACI,a;MAEoB,Q;MADhB,iBAAe,C;MACC,mB;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACC,U;QAAb,2BAAa
,yEAAuB,CAApC,K;;MAEJ,OAAO,U;K;wDAGX,oB;MACI,IAAI,CAAE,KAAF,KAAU,KAAM,KAApB,C;QAA
0B,OAAO,K;MACjC,OAAO,CtK4OsG,qBsK5OxF,KtK4OwF,C;K;;;IsKvPrH,6C;MAAA,4C;QAAA,2B;OAAA,q
C;K;;;MCghBA,kC;MA9hBA,cAAwB,C;MACxB,yB;MAEA,sBAAyB,C;;kFAAzB,Y;MAAA,0B;K,OAAA,gB;M
AAA,0B;K;4CA8BA,uB;MAOI,IAAI,cAAc,CAAlB,C;QAAqB,MAAM,6BAAsB,mBAAtB,C;MAC3B,IAAI,eAA
e,kBAAY,OAA/B,C;QAAqC,M;MACrC,IAAI,uBAAgB,qDAApB,C;QACI,qBAAc,gBAAyB,gBAAZ,WAAY,EA
Ac,EAAd,CAAzB,O;QACd,M;OAGJ,kBAAkB,uDAAY,kBAAY,OAAxB,EAA8B,WAA9B,C;MAClB,oBAAa,W
AAb,C;K;0CAGJ,uB;MAII,kBAAkB,gBAAmB,WAAnB,O;M9J20BtB,U8J10BI,kB9J00BJ,E8J10ByB,W9J00BzB
,E8J10BsC,C9J00BtC,E8J10ByC,W9J00BzC,E8J10B+C,kBAAY,O9J00B3D,C;MAAA,U8Jz0BI,kB9Jy0BJ,E8Jz0
ByB,W9Jy0BzB,E8Jz0BsC,kBAAY,OAAZ,GAAmB,WAAnB,I9Jy0BtC,E8Jz0B+D,C9Jy0B/D,E8Jz0BkE,W9Jy0
BlE,C;M8Jx0BI,cAAO,C;MACP,qBAAc,W;K;yCAGlB,yB;MAGW,Q;MAAP,OAAO,2BAAY,aAAZ,4D;K;yCAG
X,iB;MAA2C,OAAI,SAAS,kBAAY,OAAzB,GAA+B,QAAQ,kBAAY,OAApB,IAA/B,GAA6D,K;K;yCAExG,iB;
MAA2C,OAAI,QAAQ,CAAZ,GAAe,QAAQ,kBAAY,OAApB,IAAf,GAA6C,K;K;2CAExF,iB;MACoD,0BAAY,c
AAO,KAAP,IAAZ,C;K;yCAEpD,iB;MAA2C,OAAI,UAAqB,cAAZ,kBAAY,CAAzB,GAAoC,CAApC,GAA2C,Q
AAQ,CAAR,I;K;yCAEtF,iB;MAA2C,OAAI,UAAS,CAAb,GAA4B,cAAZ,kBAAY,CAA5B,GAA2C,QAAQ,CAA
R,I;K;mCAEtF,Y;MAAkC,qBAAQ,C;K;iCAE1C,Y;MAGwB,IAAI,cAAJ,C;QAAe,MAAM,2BAAuB,sBAAvB,C;;
QAnBlC,Q;QAmBa,OAnBb,2BAmBkG,WAnBlG,4D;;K;uCAqBX,Y;MAG+B,Q;MAAA,IAAI,cAAJ,C;QAAA,O
AAe,I;;QAxBnC,U;QAwBoB,OAxBpB,6BAwByD,WAxBzD,gE;;MAwBoB,W;K;gCAE/B,Y;MAGuB,IAAI,cAAJ
,C;QAAe,MAAM,2BAAuB,sBAAvB,C;;QA7BjC,Q;QA6BY,OA7BZ,2BAQyC,mBAAY,cAqB0D,sBArB1D,IAA
Z,CARzC,4D;;K;sCA+BX,Y;MAG8B,Q;MAAA,IAAI,cAAJ,C;QAAA,OAAe,I;;QAlClC,U;QAkCmB,OAlCnB,6B
AQyC,mBAAY,cA0BiB,sBA1BjB,IAAZ,CARzC,gE;;MAkCmB,W;K;0CAE9B,mB;MAII,sBAAe,YAAO,CAAP,I
AAf,C;MAEA,cAAO,mBAAY,WAAZ,C;MACP,mBAAY,WAAZ,IAAoB,O;MACpB,wBAAQ,CAAR,I;K;yCAGJ
,mB;MAII,sBAAe,YAAO,CAAP,IAAf,C;MAEA,mBA7CgD,mBAAY,cA6ClC,SA7CkC,IAAZ,CA6ChD,IAAmC,
O;MACnC,wBAAQ,CAAR,I;K;uCAGJ,Y;MAII,IAAI,cAAJ,C;QAAe,MAAM,2BAAuB,sBAAvB,C;MA7Dd,Q;M
A+DP,cA/DO,2BA+DmB,WA/DnB,4D;MAgEP,mBAAY,WAAZ,IAAoB,I;MACpB,cAAO,mBAAY,WAAZ,C;M

ACP,wBAAQ,CAAR,I;MACA,OAAO,O;K;6CAGX,Y;MAGqC,OAAI,cAAJ,GAAe,IAAf,GAAyB,kB;K;sCAE9D,Y;MAII,IAAI,cAAJ,C;QAAe,MAAM,2BAAuB,sBAAvB,C;MAErB,wBAzEgD,mBAAY,cAyEtB,sBAzEsB,IAAZ,C;MARzC,Q;MAkFP,cAlFO,2BAkFmB,iBAlFnB,4D;MAmFP,mBAAY,iBAAZ,IAAiC,I;MACjC,wBAAQ,CAAR,I;MACA,OAAO,O;K;4CAGX,Y;MAGoC,OAAI,cAAJ,GAAe,IAAf,GAAyB,iB;K;qCAE7D,mB;MAEI,mBAAQ,OAAR,C;MACA,OAAO,I;K;uCAGX,0B;MACI,oCAAa,4BAAmB,KAAnB,EAA0B,SAA1B,C;MAEb,IAAI,UAAS,SAAb,C;QACI,mBAAQ,OAAR,C;QACA,M;aACG,IAAI,UAAS,CAAb,C;QACH,oBAAS,OAAT,C;QACA,M;OAGJ,sBAAe,YAAO,CAAP,IAAf,C;MA2BA,oBAjIgD,mBAAY,cAiI1B,KAjI0B,IAAZ,C;MAmIhD,IAAI,QAAS,SAAD,GAAQ,CAAR,IAAe,CAA3B,C;QAEI,+BAA+B,mBAAY,aAAZ,C;QAC/B,sBAAsB,mBAAY,WAAZ,C;QAEtB,IAAI,4BAA4B,WAAhC,C;UACI,mBAAY,eAAZ,IAA+B,mBAAY,WAAZ,C;U9JgrB3C,U8J/qBY,kB9J+qBZ,E8J/qBiC,kB9J+qBjC,E8J/qB8C,W9J+qB9C,E8J/qBoD,cAAO,CAAP,I9J+qBpD,E8J/qB8D,2BAA2B,CAA3B,I9J+qB9D,C;;UAAA,U8J7qBY,kB9J6qBZ,E8J7qBiC,kB9J6qBjC,E8J7qB8C,cAAO,CAAP,I9J6qB9C,E8J7qBwD,W9J6qBxD,E8J7qB8D,kBAAY,O9J6qB1E,C;U8J5qBY,mBAAY,kBAAY,OAAZ,GAAAmB,CAAAnB,IAAZ,IAAAoC,mBAAY,CAAZ,C;U9J4qBhD,U8J3qBY,kB9J2qBZ,E8J3qBiC,kB9J2qBjC,E8J3qB8C,C9J2qB9C,E8J3qBiD,C9J2qBjD,E8J3qBoD,2BAA2B,CAA3B,I9J2qBpD,C;;Q8JxqBQ,mBAAY,wBAAZ,IAAwC,O;QACxC,cAAO,e;;QAGP,WArJ4C,mBAAY,cAqJ/B,SArJ+B,IAAZ,C;QAuJ5C,IAAI,gBAAgB,IAApB,C;U9JkqBR,U8JjqBY,kB9JiqBZ,E8JjqBiC,kB9JiqBjC,E8JjqB8C,gBAAgB,CAAhB,I9JiqB9C,E8JjqBiE,a9JiqBjE,E8JjqBgF,I9JiqBhF,C;;UAAA,U8J/pBY,kB9J+pBZ,E8J/pBiC,kB9J+pBjC,E8J/pB8C,C9J+pB9C,E8J/pBiD,C9J+pBjD,E8J/pBoD,I9J+pBpD,C;U8J9pBY,mBAAY,CAAZ,IAAAiB,mBAAY,kBAAY,OAAZ,GAAAmB,CAAAnB,IAAZ,C;U9J8pB7B,U8J7pBY,kB9J6pBZ,E8J7pBiC,kB9J6pBjC,E8J7pB8C,gBAAgB,CAAhB,I9J6pB9C,E8J7pBiE,a9J6pBjE,E8J7pBgF,kBAAY,OAAZ,GAAAmB,CAAAnB,I9J6pBhF,C;;Q8J1pBQ,mBAAY,aAAZ,IAA6B,O;;MAEjC,wBAAQ,CAAR,I;K;oDAGJ,mC;MAIxB,M;MANtB,eAAe,QAAAS,W;MAEsB,OAAZ,kBAAY,O;MAA9C,iBAAc,aAAAd,wB;QACI,IAAI,CAAC,QAAAS,UAAAd,C;UAAAyB,K;QACCzB,mBAAY,KAAZ,IAAqB,QAAAS,O;;MAEZ,oB;MAAAtB,mBAAAc,CAAAd,8B;QACI,IAAI,CAAC,QAAAS,UAAAd,C;UAAAyB,K;QACCzB,mBAAY,OAAZ,IAAqB,QAAAS,O;;MAGlC,wBAAQ,QAAAS,KAAAj B,I;K;0CAGJ,oB;MACI,IAAI,QAAAS,UAAb,C;QAAAwB,OAAO,K;MAC/B,sBAAe,IAAAK,KAAAL,GAAAY,QAAAS,K AArB,IAAf,C;MACA,8BAtLgD,mBAAY,cAsLvB,SAtLuB,IAAZ,CAsLhD,EAA4C,QAA5C,C;MACA,OAAO,I;K ;0CAGX,2B;MACI,oCAAa,4BAAmB,KAAnB,EAA0B,SAA1B,C;MAEb,IAAI,QAAS,UAAb,C;QACI,OAAO,K;a ACJ,IAAI,UAAS,SAAb,C;QACH,OAAO,oBAAO,QAAP,C;OAGX,sBAAe,IAAK,KAAL,GAAAY,QAAS,KAArB,I AAf,C;MAEA,WArMgD,mBAAY,cAqMnC,SArMmC,IAAZ,C;MAsMhD,oBAtMgD,mBAY,cAsM1B,KAtM0B, IAAZ,C;MAuMhD,mBAAmB,QAAS,K;MAE5B,IAAI,QAAS,SAAD,GAAQ,CAAR,IAAe,CAA3B,C;QAGI,kBA AkB,cAAO,YAAP,I;QAElB,IAAI,iBAAAiB,WAArB,C;UACI,IAAI,eAAe,CAAnB,C;Y9J0mBZ,U8JzmBgB,kB9Jy mBhB,E8JzmBqC,kB9JymBrC,E8JzmBkD,W9JymBlD,E8JzmB+D,W9JymB/D,E8JzmBqE,a9JymBrE,C;;Y8JvmB gB,4BAAe,kBAAY,OAA3B,I;YACA,sBAAsB,gBAAgB,WAAhB,I;YACtB,kBAAkB,kBAAY,OAAZ,GAAAmB,W AAnB,I;YAElB,IAAI,eAAe,eAAnB,C;c9JmmBhB,U8JlmBoB,kB9JkmBpB,E8JlmByC,kB9JkmBzC,E8JlmBsD,W 9JkmBtD,E8JlmBmE,W9JkmBnE,E8JlmByE,a9JkmBzE,C;;cAAA,U8JhmBoB,kB9JgmBpB,E8JhmByC,kB9JgmB zC,E8JhmBsD,W9JgmBtD,E8JhmBmE,W9JgmBnE,E8JhmByE,cAAO,WAAP,I9JgmBzE,C;cAAA,U8J/lBoB,kB9 J+lBpB,E8J/lByC,kB9J+lBzC,E8J/lBsD,C9J+lBtD,E8J/lByD,cAAO,WAAP,I9J+lBzD,E8J/lB6E,a9J+lB7E,C;;;;UA AA,U8J3lBY,kB9J2lBZ,E8J3lBiC,kB9J2lBjC,E8J3lB8C,W9J2lB9C,E8J3lB2D,W9J2lB3D,E8J3lBiE,kBAAY,O9J 2lB7E,C;U8J1lBY,IAAI,gBAAgB,aAApB,C;Y9J0lBZ,U8JzlBgB,kB9JylBhB,E8JzlBqC,kB9JylBrC,E8JzlBkD,kB AAY,OAAZ,GAAmB,YAAnB,I9JylBlD,E8JzlBmF,C9JylBnF,E8JzlBsF,a9JylBtF,C;;YAAA,U8JvlBgB,kB9JulBh B,E8JvlBqC,kB9JulBrC,E8JvlBkD,kBAAY,OAAZ,GAAmB,YAAnB,I9JulBlD,E8JvlBmF,C9JulBnF,E8JvlBsF,Y9 JulBtF,C;YAAA,U8JtlBgB,kB9JslBhB,E8JtlBqC,kB9JslBrC,E8JtlBkD,C9JslBlD,E8JtlBqD,Y9JslBrD,E8JtlBmE,a 9JslBnE,C;;;Q8JnlBQ,cAAO,W;QACP,8BAAuB,mBAAY,gBAAgB,YAAhB,IAAZ,CAAvB,EAAkE,QAAlE,C;;Q AIA,2BAA2B,gBAAgB,YAAhB,I;QAE3B,IAAI,gBAAgB,IAApB,C;UACI,IAAI,QAAO,YAAP,SAAuB,kBAAY, OAAvC,C;Y9J2kBZ,U8J1kBgB,kB9J0kBhB,E8J1kBqC,kB9J0kBrC,E8J1kBkD,oB9J0kBlD,E8J1kBwE,a9J0kBxE, E8J1kBuF,I9J0kBvF,C;;Y8JxkBgB,IAAI,wBAAwB,kBAAY,OAAxC,C;c9JwkBhB,U8JvkBoB,kB9JukBpB,E8Jvk ByC,kB9JukBzC,E8JvkBsD,uBAAuB,kBAAY,OAAnC,I9JukBtD,E8JvkB+F,a9JukB/F,E8JvkB8G,I9JukB9G,C;;c 8JrkBoB,mBAAmB,OAAO,YAAP,GAAsB,kBAAY,OAAlC,I;c9JqkBvC,U8JpkBoB,kB9JokBpB,E8JpkByC,kB9J okBzC,E8JpkBsD,C9JokBtD,E8JpkByD,OAAO,YAAP,I9JokBzD,E8JpkB8E,I9JokB9E,C;cAAA,U8JnkBoB,kB9J

mkBpB,E8JnkByC,kB9JmkBzC,E8JnkBsD,oB9JmkBtD,E8JnkB4E,a9JmkB5E,E8JnkB2F,OAAO,YAAP,I9JmkB3F,C;;;;UAAA,U8J/jBY,kB9J+jBZ,E8J/jBiC,kB9J+jBjC,E8J/jB8C,Y9J+jB9C,E8J/jB4D,C9J+jB5D,E8J/jB+D,I9J+jB/D,C;U8J9jBY,IAAI,wBAAwB,kBAAY,OAAxC,C;Y9J8jBZ,U8J7jBgB,kB9J6jBhB,E8J7jBqC,kB9J6jBrC,E8J7jBkD,uBAAuB,kBAAY,OAAnC,I9J6jBlD,E8J7jB2F,a9J6jB3F,E8J7jB0G,kBAAY,O9J6jBtH,C;;YAAA,U8J3jBgB,kB9J2jBhB,E8J3jBqC,kB9J2jBrC,E8J3jBkD,C9J2jBlD,E8J3jBqD,kBAAY,OAAZ,GAAmB,YAAnB,I9J2jBrD,E8J3jBsF,kBAAY,O9J2jBlG,C;YAAA,U8J1jBgB,kB9J0jBhB,E8J1jBqC,kB9J0jBrC,E8J1jBkD,oB9J0jBlD,E8J1jBwE,a9J0jBxE,E8J1jBuF,kBAAY,OAAZ,GAAmB,YAAnB,I9J0jBvF,C;;;Q8JvjBQ,8BAAuB,aAAvB,EAAsC,QAAtC,C;;MAGJ,OAAO,I;K;uCAGX,iB;MACI,oCAAa,2BAAkB,KAAlB,EAAyB,SAAzB,C;MAjRN,Q;MAmRP,OAnRO,2BAQyC,mBAAY,cA2Q3B,KA3Q2B,IAAZ,CARzC,4D;K;uCAsRX,0B;MACI,oCAAa,2BAAkB,KAAlB,EAAyB,SAAzB,C;MAEb,oBAjRgD,mBAAY,cAiR1B,KAjR0B,IAAZ,C;MARzC,Q;MA0RP,iBA1RO,2BA0RsB,aA1RtB,4D;MA2RP,mBAAY,aAAZ,IAA6B,O;MAE7B,OAAO,U;K;0CAGX,mB;MAAoD,0BAAQ,OAAR,MAAoB,E;K;yCAExE,mB;MAIsB,IAIA,IAJA,EAIuB,M;MAPzC,WA3RgD,mBAAY,cA2RnC,SA3RmC,IAAZ,C;MA6RhD,IAAI,cAAO,IAAX,C;QACI,iBAAc,WAAd,UAAyB,IAAzB,U;UACI,IAAI,gBAAW,mBAAY,KAAZ,CAAX,CAAJ,C;YAAmC,OAAO,QAAQ,WAAR,I;;aAE3C,IAAI,eAAQ,IAAZ,C;QACW,kB;QAAuB,SAAZ,kBAAY,O;QAArC,qD;UACI,IAAI,gBAAW,mBAAY,OAAZ,CAAX,CAAJ,C;YAAmC,OAAO,UAAQ,WAAR,I;;QAE9C,mBAAc,CAAd,YAAsB,IAAtB,Y;UACI,IAAI,gBAAW,mBAAY,OAAZ,CAAX,CAAJ,C;YAAmC,OAAO,UAAQ,kBAAY,OApB,GAA2B,WAA3B,I;;OAIlD,OAAO,E;K;6CAGX,mB;MAIsC,UAOJ,MAPI,EAOa,M;MAV/C,WA9SgD,mBAAY,cA8SnC,SA9SmC,IAAZ,C;MAgThD,IAAI,cAAO,IAAX,C;QACkC,kB;QAA9B,iBAAc,OAAO,CAAP,IAAd,y;UACI,IAAI,gBAAW,mBAAY,KAAZ,CAAX,CAAJ,C;YAAmC,OAAO,QAAQ,WAAR,I;;aAE3C,IAAI,cAAO,IAAX,C;QACH,mBAAc,OAAO,CAAP,IAAd,aAA8B,CAA9B,Y;UACI,IAAI,gBAAW,mBAAY,OAAZ,CAAX,CAAJ,C;YAAmC,OAAO,UAAQ,kBAAY,OAApB,GAA2B,WAA3B,I;;QAEpB,uBAAZ,kBAAY,C;QAAiB,oB;QAA3C,wD;UACI,IAAI,gBAAW,mBAAY,OAAZ,CAAX,CAAJ,C;YAAmC,OAAO,UAAQ,WAAR,I;;OAIlD,OAAO,E;K;wCAGX,mB;MACI,YAAY,mBAAQ,OAAR,C;MACZ,IAAI,UAAS,EAAb,C;QAAiB,OAAO,K;MACxB,sBAAS,KAAT,C;MACA,OAAO,I;K;4CAGX,iB;MACI,oCAAa,2BAAkB,KAAlB,EAAyB,SAAzB,C;MAEb,IAAI,UAAS,sBAAb,C;QACI,OAAO,iB;aACJ,IAAI,UAAS,CAAb,C;QACH,OAAO,kB;OAGX,oBAhVgD,mBAAY,cAgV1B,KAhV0B,IAAZ,C;MARzC,Q;MAyVP,cAzVO,2BAyVmB,aAzVnB,4D;MA2VP,IAAI,QAAQ,aAAS,CAArB,C;QAAQEI,IAAI,iBAAiB,WAArB,C;U9JoeR,U8JneY,kB9JmeZ,E8JneiC,kB9JmejC,E8Jne8C,cAAO,CAAP,I9Jme9C,E8JnewD,W9JmexD,E8Jne8D,a9Jme9D,C;;UAAA,U8JjeY,kB9JieZ,E8JjeiC,kB9JiejC,E8Jje8C,C9Jie9C,E8JjeiD,C9JiejD,E8JjeoD,a9JiepD,C;U8JheY,mBAAY,CAAZ,IAAiB,mBAAY,kBAAY,OAAZ,GAAmB,CAAnB,IAAZ,C;U9Jge7B,U8J/dY,kB9J+dZ,E8J/diC,kB9J+djC,E8J/d8C,cAAO,CAAP,I9J+d9C,E8J/dwD,W9J+dxD,E8J/d8D,kBAAY,OAAZ,GAAmB,CAAnB,I9J+d9D,C;;Q8J5dQ,mBAAY,WAAZ,IAAoB,I;QACpB,cAAO,mBAAY,WAAZ,C;;QAGP,wBAAjW4C,mBAAY,cAiWlB,sBAAjWkB,IAAZ,C;QAmW5C,IAAI,iBAAiB,iBAArB,C;U9JsdR,U8JrdY,kB9JqdZ,E8JrdiC,kB9JqdjC,E8Jrd8C,a9Jqd9C,E8Jrd6D,gBAAgB,CAAhB,I9Jqd7D,E8JrdgF,oBAAoB,CAApB,I9JqdhF,C;;UAAA,U8JndY,kB9JmdZ,E8JndiC,kB9JmdjC,E8Jnd8C,a9Jmd9C,E8Jnd6D,gBAAgB,CAAhB,I9Jmd7D,E8JndgF,kBAAY,O9Jmd5F,C;U8JldY,mBAAY,kBAAY,OAAZ,GAAmB,CAAnB,IAAZ,IAAoC,mBAAY,CAAZ,C;U9JkdhD,U8JjdY,kB9JidZ,E8JjdiC,kB9JidjC,E8Jjd8C,C9Jid9C,E8JjdiD,C9JidjD,E8JjdoD,oBAAoB,CAApB,I9JidpD,C;;Q8J9cQ,mBAAY,iBAAZ,IAAiC,I;;MAErC,wBAAQ,CAAR,I;MAEA,OAAO,O;K;6CAGX,oB;MAAkE,0B;;QAa5C,wD;QART,aAAAL,IAAAK,U;QAAAL,Y;UAA8B,SAAZ,kB7K6wOnB,YAAAQ,C;S6K7wOX,W;UACI,yBAAO,K;UAAAP,2B;SAEJ,WA1XgD,mBAAY,cA0XnC,SA1XmC,IAAZ,C;QA2XhD,cAAc,W;QACd,eAAe,K;QAEf,IAAI,cAAO,IAAX,C;UACI,iBAAc,WAAd,UAAyB,IAAzB,U;YACI,cAAc,mBAAY,KAAZ,C;YAGd,IAAjBsE,CAAU,wBAAiBlE,0EAAjBkE,CAAiBhF,C;cACI,mBAAY,gBAAZ,EAAY,wBAAZ,YAAyB,O;;cAEzB,WAAW,I;;UAGP,OAAZ,kBAAY,EAAK,IAAL,EAAW,OAAX,EAAoB,IAApB,C;;UAGE,oB;UAAuB,SAAZ,kBAAY,O;UAArC,uD;YACI,gBAAc,mBAAY,OAAZ,C;YACd,mBAAY,OAAZ,IAAqB,I;YAGrB,IA/BsE,CAAU,wBA+BlE,kFA/BkE,CA+BhF,C;cACI,mBAAY,gBAAZ,EAAY,wBAAZ,YAAyB,S;;cAEzB,WAAW,I;;UAGnB,UAAU,mBAAY,OAAZ,C;UAEV,mBAAc,CAAd,YAAsB,IAAtB,Y;YACI,gBAAc,mBAAY,OAAZ,C;YACd,mBAAY,OAAZ,IAAqB,I;YAGrB,IA5CsE,CAAU,wBA4ClE,kFA5CkE,CA4ChF,C;cACI,mBAAY,OAAZ,IAAuB,S;cACvB,UAAU,mBAAY,OAAZ,C;;cAEV,WAAW,I;;;;QAIvB,IAAI,QAAQ,J,C;UACI,YAAAO,mBAAY,UAAU,WAAV,IAAZ,C;QAEX,yBAAO,Q;;;MAvDuD,6B;K;6CAAElE,oB;MAAkE,0B;;QAAW5C,wD;QAART,aAAAL,IAAAK,U;QAAAL,Y;UAA8B,SAAZ,kB7K6wOnB

,YAAQ,C;S6K7wOX,W;UACI,yBAAO,K;UAAP,2B;SAEJ,WA1XgD,mBAAY,cA0XnC,SA1XmC,IAAZ,C;QA2
XhD,cAAc,W;QACd,eAAe,K;QAEf,IAAI,cAAO,IAAX,C;UACI,iBAAc,WAAd,UAAyB,IAAzB,U;YACI,cAAc,m
BAAY,KAAZ,C;YAGd,IAf+E,wBAejE,0EAfiE,CAe/E,C;cACI,mBAAY,gBAAZ,EAAY,wBAAZ,YAAyB,O;;cA
EzB,WAAW,I;;UAGP,OAAZ,kBAAY,EAAK,IAAL,EAAW,OAAX,EAAoB,IAApB,C;;UAGE,oB;UAAuB,SAAZ
,kBAAY,O;UAArC,uD;YACI,gBAAc,mBAAY,OAAZ,C;YACd,mBAAY,OAAZ,IAAqB,I;YAGrB,IA7B+E,wBA
6BjE,kFA7BiE,CA6B/E,C;cACI,mBAAY,gBAAZ,EAAY,wBAAZ,YAAyB,S;;cAEzB,WAAW,I;;UAGnB,UAAU,
mBAAY,OAAZ,C;UAEV,mBAAc,CAAd,YAAsB,IAAtB,Y;YACI,gBAAc,mBAAY,OAAZ,C;YACd,mBAAY,OA
AZ,IAAqB,I;YAGrB,IA1C+E,wBA0CjE,kFA1CiE,CA0C/E,C;cACI,mBAAY,OAAZ,IAAuB,S;cACvB,UAAU,mB
AAY,OAAZ,C;;cAEV,WAAW,I;;;;QAIvB,IAAI,QAAJ,C;UACI,YAAO,mBAAY,UAAU,WAAV,IAAZ,C;QAEX,
yBAAO,Q;;;MArDuD,6B;K;2CAElE,qB;MASsB,IAII,IAJJ,EAKM,MALN,EAaA,MAbA,EAauB,MAbvB,EAkBI,
MAlBJ,EAmBM,MAnBN,EA+BI,M;MAvCb,aAAL,IAAK,U;MAAL,Y;QAA8B,SAAZ,kB7K6wOnB,YAAQ,C;O
6K7wOX,W;QACI,OAAO,K;MAEX,WA1XgD,mBAAY,cA0XnC,SA1XmC,IAAZ,C;MA2XhD,cAAc,W;MACd,e
AAe,K;MAEf,IAAI,cAAO,IAAX,C;QACI,iBAAc,WAAd,UAAyB,IAAzB,U;UACI,cAAc,mBAAY,KAAZ,C;UAG
d,IAAI,UAAU,0EAAV,CAAJ,C;YACI,mBAAY,gBAAZ,EAAY,wBAAZ,YAAyB,O;;YAEzB,WAAW,I;;QAGP,O
AAZ,kBAAY,EAAK,IAAL,EAAW,OAAX,EAAoB,IAApB,C;;QAGE,oB;QAAuB,SAAZ,kBAAY,O;QAArC,uD;
UACI,gBAAc,mBAAY,OAAZ,C;UACd,mBAAY,OAAZ,IAAqB,I;UAGrB,IAAI,UAAU,kFAAV,CAAJ,C;YACI,
mBAAY,gBAAZ,EAAY,wBAAZ,YAAyB,S;;YAEzB,WAAW,I;;QAGnB,UAAU,mBAAY,OAAZ,C;QAEV,mBA
Ac,CAAd,YAAsB,IAAtB,Y;UACI,gBAAc,mBAAY,OAAZ,C;UACd,mBAAY,OAAZ,IAAqB,I;UAGrB,IAAI,UA
AU,kFAAV,CAAJ,C;YACI,mBAAY,OAAZ,IAAuB,S;YACvB,UAAU,mBAAY,OAAZ,C;;YAEV,WAAW,I;;;;M
AIvB,IAAI,QAAJ,C;QACI,YAAO,mBAAY,UAAU,WAAV,IAAZ,C;MAEX,OAAO,Q;K;iCAGX,Y;MACI,WA7a
gD,mBAAY,cA6anC,SA7amC,IAAZ,C;MA8ahD,IAAI,cAAO,IAAX,C;QACgB,OAAZ,kBAAY,EAAK,IAAL,EA
AW,WAAX,EAAiB,IAAjB,C;;QACT,IvKtS6C,CAAC,cuKsS9C,C;UACS,OAAZ,kBAAY,EAAK,IAAL,EAAW,
WAAX,EAAiB,kBAAY,OAA7B,C;UACA,OAAZ,kBAAY,EAAK,IAAL,EAAW,CAAX,EAAc,IAAd,C;;MAEhB,
cAAO,C;MACP,YAAO,C;K;2CAGX,iB;MAGe,IAAC,IAAD,EAcJ,M;MAfP,WACW,eAAC,OAAI,KAAM,OAA
N,IAAc,SAAlB,GAAwB,KAAxB,GAAmC,aAAa,KAAb,EAAoB,SAApB,CAApC,uB;MAEX,WA7bgD,mBAAY,
cA6bnC,SA7bmC,IAAZ,C;MA8bhD,IAAI,cAAO,IAAX,C;Q9J2XJ,U8J1XQ,kB9J0XR,E8J1X6B,I9J0X7B,EAD+F
,CAC/F,E8J1XgD,W9J0XhD,E8J1XiE,I9J0XjE,C;;Q8JzXW,IvKtT6C,CAAC,cuKsT9C,C;U9JyXX,U8JxXQ,kB9J
wXR,E8JxX6B,I9JwX7B,E8JxXuD,C9JwXvD,E8JxXuE,W9JwXvE,E8JxXwF,kBAAY,O9JwXpG,C;UAAA,U8Jv
XQ,kB9JuXR,E8JvX6B,I9JuX7B,E8JvXuD,kBAAY,OAAZ,GAAmB,WAAnB,I9JuXvD,E8JvX6F,C9JuX7F,E8Jv
X2G,I9JuX3G,C;;M8JrXI,IAAI,IAAK,OAAL,GAAY,SAAhB,C;QACI,KAAK,SAAL,IAAa,I;OAIjB,OAAO,qD;K;
mCAGX,Y;MAEI,OAAO,qBAAQ,gBAAmB,SAAnB,OAAR,C;K;+CAGX,iB;MAC0D,4BAAQ,KAAR,C;K;+CA
C1D,Y;MAA0C,qB;K;IAE1C,gC;MAAA,oC;MACI,0BpHriBuC,E;MoHsiBvC,sBAAiC,U;MACjC,4BAAuC,E;K;
yDAEvC,oC;MAEI,kBAAkB,eAAe,eAAgB,CAA/B,K;MAClB,IAAI,eAAc,WAAd,QAA4B,CAAhC,C;QACI,cAA
c,W;MAClB,IAAI,eAAc,UAAd,QAA6B,CAAjC,C;QACI,cAAkB,cAAc,UAAlB,GAAgC,UAAhC,GAAmD,U;MA
CrE,OAAO,W;K;;;IAZf,4C;MAAAA,2C;QAAAA,0B;OAAAA,oC;K;qDAgBA,qB;MAEI,WAvegD,mBAAY,cAuenC,S
AvemC,IAAZ,C;MAwehD,WAAe,kBAAa,cAAO,IAAxB,GAA8B,WAA9B,GAAwC,cAAO,kBAAY,OAAnB,I;M
ACnD,UAAU,IAAV,EAAgB,cAAhB,C;K;;IA5iBJ,iD;MAAA,oD;MAGwC,+B;MApB5C,sB;MAqBsB,Q;MACV,
wBAAmB,CAAnB,C;QAAwB,4D;WACxB,sBAAkB,CAAlB,C;QAAuB,uBAAa,eAAb,O;;QACf,MAAM,gCAAy
B,uBAAoB,eAA7C,C;MAHlB,0B;MAJJ,Y;K;IAWA,kC;MAAA,oD;MAGoB,+B;MA/BxB,sB;MAgCQ,sBAAc,qD
;MAJlB,Y;K;IAOA,4C;MAAA,oD;MAG2C,+B;MAtC/C,sB;MAuCQ,sBxJrB8D,YwJqBhD,QxJrBgD,C;MwJsB9D
,aAAO,mBAAY,O;MACnB,IAAI,mB7K+qPD,YAAQ,C6K/qPX,C;QAA2B,sBAAc,qD;MAN7C,Y;K;IC5BJ,4B;M
AMoB,Q;M9KghqBA,U;MADhB,UAAe,C;MACf,uD;QAAgB,cAAhB,iB;QACI,YAAgB,O8KlhqBiB,O9KkhqBjC
,I;;M8KlhqBJ,aAAa,iB9KohqBN,G8KphqBM,C;MACb,wBAAgB,SAAhB,gB;QAAgB,gBAAA,SAAhB,M;QAC
W,SAAP,MAAO,EAAO,SAAP,C;;MAEX,OAAO,M;K;IAGX,0B;MASiB,Q;MAFb,YAAY,iBAAa,gBAAb,C;MA
CZ,YAAY,iBAAa,gBAAb,C;MACZ,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,KAAM,WAAI,IAAK,MA
AT,C;QACN,KAAM,WAAI,IAAK,OAAT,C;;MAEV,OAAO,UAAS,KAAT,C;K;gGAGX,qB;MAWW,4B;MAAAA,
U;QAAqB,OAAL,S9K0qPhB,YAAQ,C;O8K1qPf,W;K;oFAGJ,mC;MAUI,O9K6pPO,qBAAQ,C8K7pPf,GAAe,cA
Af,GAAmC,S;K;IAGvC,iD;MAMI,IAAI,cAAS,KAAb,C;QAAoB,OAAO,I;MAC3B,IAAI,qBAAgB,aAAhB,IAAi

C,SAAK,OAAL,KAAa,KAAM,OAAxD,C;QAA8D,OAAO,K;MAErE,4C;QACI,SAAS,UAAK,CAAL,C;QACT,S
AAS,MAAM,CAAN,C;QAET,IAAI,OAAO,EAAX,C;UACI,Q;eACG,IAAI,cAAc,UAAlB,C;UACH,OAAO,K;SAI
P,0BAAsB,kBAAtB,C;UAA4C,IAAI,CAAI,kBAAH,EAAG,EAAkB,EAAlB,CAAR,C;YAA+B,OAAO,K;eAClF,8
BAAsB,sBAAtB,C;UAA4C,IAAI,CAAI,cAAH,EAAG,EAAc,EAAd,CAAR,C;YAA2B,OAAO,K;eAC9E,+BAAsB
,uBAAtB,C;UAA4C,IAAI,CAAI,cAAH,EAAG,EAAc,EAAd,CAAR,C;YAA2B,OAAO,K;eAC9E,6BAAsB,qBAAt
B,C;UAA4C,IAAI,CAAI,cAAH,EAAG,EAAc,EAAd,CAAR,C;YAA2B,OAAO,K;eAC9E,8BAAsB,sBAAtB,C;U
AA4C,IAAI,CAAI,cAAH,EAAG,EAAc,EAAd,CAAR,C;YAA2B,OAAO,K;eAC9E,+BAAsB,uBAAtB,C;UAA4C,
IAAI,CAAI,cAAH,EAAG,EAAc,EAAd,CAAR,C;YAA2B,OAAO,K;eAC9E,gCAAsB,wBAAtB,C;UAA4C,IAAI,
CAAI,cAAH,EAAG,EAAc,EAAd,CAAR,C;YAA2B,OAAO,K;eAC9E,8BAAsB,sBAAtB,C;UAA4C,IAAI,CAAI,c
AAH,EAAG,EAAc,EAAd,CAAR,C;YAA2B,OAAO,K;eAC9E,iCAAsB,yBAAtB,C;UAA4C,IAAI,CAAI,cAAH,E
AAG,EAAc,EAAd,CAAR,C;YAA2B,OAAO,K;eAE9E,qCAAsB,6BAAtB,C;UAA4C,IAAI,CAAI,gBAAH,EAAG,
EAAc,EAAd,CAAR,C;YAA2B,OAAO,K;eAC9E,sCAAsB,8BAAtB,C;UAA4C,IAAI,CAAI,gBAAH,EAAG,EAAc
,EAAd,CAAR,C;YAA2B,OAAO,K;eAC9E,oCAAsB,4BAAtB,C;UAA4C,IAAI,CAAI,gBAAH,EAAG,EAAc,EAA
d,CAAR,C;YAA2B,OAAO,K;eAC9E,qCAAsB,6BAAtB,C;UAA4C,IAAI,CAAI,gBAAH,EAAG,EAAc,EAAd,CA
AR,C;YAA2B,OAAO,K;eAEtE,IAAI,YAAM,EAAN,CAAJ,C;UAAc,OAAO,K;;MAIrC,OAAO,I;K;IAGX,4C;MA
KI,IAAI,iBAAJ,C;QAAkB,OAAO,M;MACzB,aAAa,CAAK,eAAL,gBAAK,EAAa,SAAb,CAAL,GAA6C,CAA7C,
QAAiD,CAAjD,I;MvC6SkB,kBAAxB,mBuC5SY,MvC4SZ,C;MuC3SH,oDxK5BgD,gBwK4BhD,C;MADJ,O7JnC
O,WsH+U6C,W;K;IuCvSxD,mE;MAEI,IAAY,SAAR,0BAAJ,C;QACI,MAAO,gBAAO,OAAP,C;QACP,M;OAEJ,
SAAU,WAAI,SAAJ,C;MACV,MAAO,gBAAO,EAAP,C;MAEP,4C;QACI,IAAI,MAAK,CAAT,C;UACI,MAAO,g
BAAO,IAAP,C;SAEX,cAAc,UAAK,CAAL,C;QAEV,IADE,OACF,S;UAAmB,MAAO,gBAAO,MAAP,C;aAC1B,
mBAFE,OAEF,E;UAA2B,4BAAR,OAAQ,EAA4B,MAA5B,EAAoC,SAApC,C;aAC3B,uBAHE,OAGF,E;UAAm
B,MAAO,gBAAe,gBAAR,OAAQ,CAAf,C;aAC1B,wBAJE,OAIF,E;UAAmB,MAAO,gBAAe,gBAAR,OAAQ,CA
Af,C;aAC1B,sBALE,OAKF,E;UAAmB,MAAO,gBAAe,gBAAR,OAAQ,CAAf,C;aAC1B,uBANE,OAMF,E;UAA
mB,MAAO,gBAAe,gBAAR,OAAQ,CAAf,C;aAC1B,wBAPE,OAOF,E;UAAmB,MAAO,gBAAe,gBAAR,OAAQ,
CAAf,C;aAC1B,yBARE,OAQF,E;UAAmB,MAAO,gBAAe,gBAAR,OAAQ,CAAf,C;aAC1B,uBATE,OASF,E;UA
AmB,MAAO,gBAAe,gBAAR,OAAQ,CAAf,C;aAC1B,0BAVE,OAUF,E;UAAmB,MAAO,gBAAe,gBAAR,OAA
Q,CAAf,C;aAE1B,kBAZE,OAYF,c;UAAmB,MAAO,gBAAe,kBAAR,OAAQ,CAAf,C;aAC1B,kBAbE,OAaF,e;U
AAmB,MAAO,gBAAe,kBAAR,OAAQ,CAAf,C;aAC1B,kBAdE,OAcF,a;UAAmB,MAAO,gBAAe,kBAAR,OAA
Q,CAAf,C;aAC1B,kBAfE,OAeF,c;UAAmB,MAAO,gBAAe,kBAAR,OAAQ,CAAf,C;;UAEP,MAAO,gBAAO,OA
AQ,WAAf,C;;MAIlC,MAAO,gBAAO,EAAP,C;MACP,SAAU,kBAAmB,iBAAV,SAAU,CAAnB,C;K;ICpJd,uC;
MAIqD,+CAAwC,iBAAO,CAA/C,IAAoD,mC;K;IAEzG,4D;MAWQ,kBADE,SACF,O;QADJ,OACc,S;WACV,kB
AFE,SAEF,c;QAEQ,yCAAwB,MAAO,KAAP,GAAc,CAAtC,C;UAJZ,OAIuD,S;;UAJvD,OAK6B,mBAAL,SAAK
,CAAT,GAA+B,sBAA/B,GAAgD,S;;QALpE,OAOgB,oCAAJ,GAA0C,sBAA1C,GAA2D,mB;K;IAG3E,gD;MAW
Q,kBADE,SACF,O;QADJ,OACc,S;WACV,kBAFE,SAEF,c;QAFJ,OAE8B,mBAAL,SAAK,CAAT,GAA+B,sBAA
/B,GAAgD,S;;QAFrE,OAGgB,oCAAJ,GAA0C,sBAA1C,GAA2D,mB;K;IAG3E,kD;MAKI,OAAI,oCAAJ,GAA0C
,sBAA1C,GAA2D,oB;K;IAE/D,kD;MAKI,OAAI,oCAAJ,GAA0C,oBAA1C,GAA2D,iB;K;IzKnD/D,yB;MAAA,6
B;K;sCACI,Y;MAAkC,Y;K;0CAClC,Y;MAAsC,Y;K;wCACtC,Y;MAAgC,Q;K;4CAChC,Y;MAAoC,S;K;mCACp
C,Y;MAA+B,MAAM,6B;K;uCACrC,Y;MAAmC,MAAM,6B;K;;;IAN7C,qC;MAAA,oC;QAAA,mB;OAAA,6B;K;
IASA,qB;MAAA,yB;MACI,+C;K;iCAEA,iB;MAA4C,qCAAoB,KAAM,U;K;mCACtE,Y;MAA+B,Q;K;mCAC/B,
Y;MAAkC,W;K;iFAEX,Y;MAAQ,Q;K;kCAC/B,Y;MAAkC,W;K;yCAClC,mB;MAAmD,Y;K;8CACnD,oB;MAA
mE,OAAA,QAAS,U;K;sCAE5E,iB;MAAwC,MAAM,8BAA0B,iDAA8C,KAA9C,MAA1B,C;K;wCAC9C,mB;M
AA8C,S;K;4CAC9C,mB;MAAkD,S;K;mCAElD,Y;MAA6C,kC;K;uCAC7C,Y;MAAqD,kC;K;+CACrD,iB;MACI,
IAAI,UAAS,CAAb,C;QAAgB,MAAM,8BAA0B,YAAS,KAAnC,C;MACtB,OAAO,2B;K;0CAGX,8B;MACI,IAAI
,cAAa,CAAb,IAAkB,YAAW,CAAjC,C;QAAoC,OAAO,I;MAC3C,MAAM,8BAA0B,gBAAa,SAAb,mBAAkC,O
AA5D,C;K;wCAGV,Y;MAAiC,8B;K;;;IA5BrC,iC;MAAA,gC;QAAA,e;OAAA,yB;K;IA+BA,iC;MAA8D,6BAAk
B,SAAlB,EAAoC,KAApC,C;K;IAE5B,8C;MAAC,oB;MAA0B,0B;K;yFAClC,Y;MAAQ,OAAA,WAAO,O;K;0C
ACtC,Y;MAAkC,OAAA,WNqqP3B,YAAQ,C;K;iDMpqPf,mB;MAA6C,OAAO,SAAP,WAAO,EAAS,OAAT,C;K
;sDACpD,oB;MAAsE,c;;Qc4nDtD,Q;QADhB,IAAI,cd3nDyD,Qc2nDzD,iBd3nDyD,Qc2nDnC,UAA1B,C;UAAqC

,aAAO,I;UAAP,e;SACrB,Od5nD6C,Qc4nD7C,W;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,Cd5nDkD
,oBc4nDvC,Od5nDuC,Cc4nDtD,C;YAAyB,aAAO,K;YAAP,e;;QAC/C,aAAO,I;;;Md7nDsD,iB;K;2CAC7D,Y;MA
AuC,OAAO,qBAAP,WAAO,C;K;0CAC9C,Y;MAC+C,gBAAP,W;MAAA,OAAwB,cAAxB,GegKpC,SfhKoC,Gek
KpC,SN83BoB,Q;K;;IT7hC5B,qB;MAIsC,8B;K;IAEtC,4B;MAIqD,OAAI,QAAS,OAAT,GAAgB,CAApB,GAAg
C,OAAT,QAAS,CAAhC,GAA8C,W;K;mFAEnG,yB;MAAA,qD;MAAA,mB;QAK0C,kB;O;KAL1C,C;+FAOA,y
B;MAAA,+D;MAAA,mB;QAMwD,uB;O;KANxD,C;2FAQA,yB;MAAA,+D;MAAA,mB;QAMoD,uB;O;KANpD,
C;IAQA,mC;MAKI,OAAI,QAAS,OAAT,KAAiB,CAArB,GAAwB,gBAAxB,GAAyC,iBAAU,sBAAkB,QAAlB,E
AAwC,IAAxC,CAAV,C;K;IAE7C,iC;MAKI,OAAI,QAAS,OAAT,KAAiB,CAArB,GAAwB,gBAAxB,GAAyC,iB
AAU,sBAAkB,QAAlB,EAAwC,IAAxC,CAAV,C;K;IAE7C,gC;MAI2D,OAAI,eAAJ,GAAqB,OAAO,OAAP,CAA
rB,GAA0C,W;K;IAErG,mC;MAImE,OAAS,cAAT,QAAS,C;K;gFAE5E,yB;MAaA,gE;MAbA,6B;QAyBI,WAAW
,eAduE,IAcvE,C;QWCX,iBAAc,CAAd,UXfkF,IWelF,U;UXA6B,eAf2D,IAevD,CWCtB,KXDsB,CAAJ,C;;QAfyC
,OAgB/D,I;O;KA3BX,C;8FAaA,yB;MAAA,gE;MAAA,6B;QAYI,WAAW,eAAa,IAAb,C;QWCX,iBAAc,CAAd,U
XAO,IWAP,U;UXA6B,eAAI,KWCtB,KXDsB,CAAJ,C;;QAC7B,OAAO,I;O;KAdX,C;wFAiBA,yB;Me1FA,+D;M
f0FA,gC;QetF0B,gBAAf,gB;QfsGkB,aW3FzB,W;QX2FA,OW1FO,SIZoC,Q;O;KfsF/C,C;yFAwBA,yB;Me3GA,4
E;MAAA,gE;Mf2GA,0C;QevGI,qBf2HyB,Qe3HzB,C;QAC8B,gBAAvB,ef0HkB,Qe1HlB,C;Qf0H4B,aWvHnC,W;
QXuHA,OWtHO,SIJ4C,Q;O;KfsGvD,C;IAiCI,mC;MAAQ,uBAAG,iBAAO,CAAP,IAAH,C;K;IAQR,qC;MAAQ,
OAAA,SAAK,KAAL,GAAY,CAAZ,I;K;4FAEZ,qB;MAK4D,QAAC,mB;K;kGAE7D,qB;MAWI,OAAO,qBAAgB
,SAAK,U;K;sFAGhC,yB;MAAA,qD;MAAA,4B;QAKgE,uCAAQ,W;O;KALxE,C;sFAOA,yB;MAAA,qD;MAAA,
4B;QAKoD,uCAAQ,W;O;KAL5D,C;sFAOA,mC;MASI,OAAI,mBAAJ,GAAe,cAAf,GAAmC,S;K;4FAGvC,+B;
MAQoH,OAAA,SAAK,qBAAY,QAAZ,C;K;IAGzH,uC;MAK+E,kBAAhB,0B;MAAwB,+B;MAAxB,OW5MpD,
W;K;IX+MX,yC;MAAkD,QAAM,cAAN,C;aAC9C,C;UAD8C,OACzC,W;aACL,C;UAF8C,OAEzC,OAAO,sBAA
K,CAAL,CAAP,C;gBAFyC,OAGtC,S;;K;IAGZ,8D;MAgBkE,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,c;M
ACjG,WAAW,cAAX,EAAiB,SAAjB,EAA4B,OAA5B,C;MAEA,UAAU,S;MACV,WAAW,UAAU,CAAV,I;MAE
X,OAAO,OAAO,IAAd,C;QACI,UAAW,GAAY,GAAN,IAAM,KAAK,C;QAC5B,aAAa,sBAAI,GAAJ,C;QACb,U
AAU,cAAc,MAAd,EAAsB,OAAtB,C;QAEV,IAAI,MAAM,CAAV,C;UACI,MAAM,MAAM,CAAN,I;aACL,IAAI
,MAAM,CAAV,C;UACD,OAAO,MAAM,CAAN,I;;UAEP,OAAO,G;;MAEf,OAAO,EAAE,MAAM,CAAN,IAAF,
K;K;IAGX,4E;MAe8E,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,c;MAC7G,WAAW,cAAX,EAAiB,SAAjB,
EAA4B,OAA5B,C;MAEA,UAAU,S;MACV,WAAW,UAAU,CAAV,I;MAEX,OAAO,OAAO,IAAd,C;QACI,UAA
W,GAAY,GAAN,IAAM,KAAK,C;QAC5B,aAAa,sBAAI,GAAJ,C;QACb,UAAU,UAAAW,SAAQ,MAAR,EAAgB,
OAAhB,C;QAErB,IAAI,MAAM,CAAV,C;UACI,MAAM,MAAM,CAAN,I;aACL,IAAI,MAAM,CAAV,C;UACD,
OAAO,MAAM,CAAN,I;;UAEP,OAAO,G;;MAEf,OAAO,EAAE,MAAM,CAAN,IAAF,K;K;kGAGX,yB;MAAA,8
D;MAAA,4D;MAsBqC,8D;QAAA,qB;UAAE,qBAAc,iBAAS,EAAT,CAAd,EAA4B,WAA5B,C;S;O;MAtBvC,+D
;QAkBI,yB;UAAA,YAAiB,C;QACjB,uB;UAAA,UAAe,c;QAGf,+BAAa,SAAb,EAAwB,OAAxB,EAAiC,oCAAjC
,C;O;KAtBJ,C;IA6BA,mE;MAmBoC,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,c;MACnE,WAAW,cAAX,E
AAiB,SAAjB,EAA4B,OAA5B,C;MAEA,UAAU,S;MACV,WAAW,UAAU,CAAV,I;MAEX,OAAO,OAAO,IAAd,
C;QACI,UAAW,GAAY,GAAN,IAAM,KAAK,C;QAC5B,aAAa,sBAAI,GAAJ,C;QACb,UAAU,WAAW,MAAX,C
;QAEV,IAAI,MAAM,CAAV,C;UACI,MAAM,MAAM,CAAN,I;aACL,IAAI,MAAM,CAAV,C;UACD,OAAO,M
AAM,CAAN,I;;UAEP,OAAO,G;;MAEf,OAAO,EAAE,MAAM,CAAN,IAAF,K;K;IAGX,8C;MAMQ,gBAAY,OA
AZ,C;QAAuB,MAAM,gCAAyB,gBAAa,SAAb,mCAAkD,OAAlD,OAAzB,C;QAC7B,gBAAY,CAAZ,C;QAAAiB,
MAAM,8BAA0B,gBAAa,SAAb,yBAA1B,C;QACvB,cAAU,IAAAV,C;QAAkB,MAAM,8BAA0B,cAAW,OAAX,g
CAA2C,IAA3C,OAA1B,C;K;IAchC,8B;MAEoC,MAAM,wBAAoB,8BAApB,C;K;IAE1C,8B;MAEoC,MAAM,w
BAAoB,8BAApB,C;K;;;;wF2Gjb1C,yB;M1GgCA,wE;M0GhCA,uC;QAmBW,kB1GqBiD,oB;Q0GM9C,Q;QAAA,
OAAK,0B;QAAf,OAAU,cAAV,C;UAAU,mB;UACN,UAAU,sBAAM,CAAN,C;UACV,kBAAkB,sBAAY,GAAZ,
C;UAClB,W1GuKJ,a0GvKgB,G1GuKhB,E0GrMyC,SA8BlB,CAAU,GAAV,EAAe,WAAf,EAA4B,CAA5B,EAA
+B,uBAAuB,CAAC,WAAY,mBAAY,GAAZ,CAAnE,C1GuKvB,C;;Q0GrMA,OAgCO,W;O;KAnDX,C;4FAsBA,
6C;MAwBc,Q;MAAAA,OAAA,SAAK,iB;MAAf,OAAU,cAAV,C;QAAU,mB;QACN,UAAU,sBAAM,CAAN,C;Q
ACV,kBAAkB,sBAAY,GAAZ,C;QAClB,W1GuKJ,a0GvKgB,G1GuKhB,E0GvKuB,UAAU,GAAV,EAAe,WAAf,
EAA4B,CAA5B,EAA+B,uBAAuB,CAAC,WAAY,mBAAY,GAAZ,CAAnE,C1GuKvB,C;;M0GrKA,OAAO,W;K;

iFAGX,yB;MAAA,gB;MAAA,8B;M1GtBA,wE;M0GsBA,6D;QAnCW,kB1GqBiD,oB;Q0GM9C,Q;QAAA,OAA
K,0B;QAAf,OAAU,cAAV,C;UAAU,mB;UACN,UAAU,sBAAM,CAAN,C;UACV,kBAAkB,sBAAY,GAAZ,C;U
A8BwE,U;UA7B1F,W1GuKJ,a0GvKgB,G1GuKhB,E0G1IkC,UA7BD,GA6BC,EA7BoB,uBAAuB,CAAC,WAAY
,mBAAY,GAAZ,CA6BzC,GAAW,qBA7B3B,GA6B2B,EA7BT,CA6BS,CAAX,GAA6C,UA7BxD,WA6BwD,6D
AA5D,EA7BiB,CA6BjB,C1G0IlC,C;;Q0G3IA,OA1BO,W;O;KAGX,C;kFA0BA,yB;MAAA,gB;MAAA,8B;MAA
A,0E;QAlCc,Q;QAAA,OAAK,0B;QAAf,OAAU,cAAV,C;UAAU,mB;UACN,UAAU,sBAAM,CAAN,C;UACV,k
BA6DQ,WA7DU,WAAY,GAAZ,C;UA6DuF,U;UAAjG,W1G2GZ,a0GvKgB,G1GuKhB,E0G3GiD,UA5DhB,GA4
DgB,EA5DK,uBAAuB,CA4DjE,WA5D8E,mBAAY,GAAZ,CA4D1B,GAAW,qBA5D1C,GA4D0C,EA5DxB,CA4
DwB,CAAX,GAA6C,UA5DvE,WA4DuE,6DAA5D,EA5DE,CA4DF,C1G2GjD,C;;Q0G5GA,OACY,W;O;KA7Bh
B,C;iFAgCA,yB;MAAA,gB;MAAA,8B;M1GhFA,wE;M0GgFA,qD;QA7FW,kB1GqBiD,oB;Q0GM9C,Q;QAAA,
OAAK,0B;QAAf,OAAU,cAAV,C;UAAU,mB;UACN,UAAU,sBAAM,CAAN,C;UACV,kBAAkB,sBAAY,GAAZ,
C;UAkFiD,U;UAjFnE,W1GuKJ,a0GvKgB,G1GuKhB,E0GtFgC,UAjFsB,uBAAuB,CAAC,WAAY,mBAAY,GAA
Z,CAiFhD,kBAA6B,UAjFjC,WAiFiC,6DAAvC,EAjFmB,CAiFnB,C1GsFhC,C;;Q0GvFA,OA9EO,W;O;KA6DX,
C;oFAoBA,yB;MAAA,gB;MAAA,8B;MAAA,kE;QAtFc,Q;QAAA,OAAK,0B;QAAf,OAAU,cAAV,C;UAAU,mB;
UACN,UAAU,sBAAM,CAAN,C;UACV,kBA2GQ,WA3GU,WAAY,GAAZ,C;UA2GgE,U;UAA1E,W1G6DZ,a0G
vKgB,G1GuKhB,E0G7D+C,UA1GO,uBAAuB,CA0GjE,WA1G8E,mBAAY,GAAZ,CA0GjC,kBAA6B,UA1GhD,
WA0GgD,6DAAvC,EA1GI,CA0GJ,C1G6D/C,C;;Q0G9DA,OACY,W;O;KAvBhB,C;qFA0BA,yB;MAAA,gB;MA
AA,8B;M1G9HA,wE;M0G8HA,uC;QA3IW,kB1GqBiD,oB;Q0GM9C,Q;QAAA,OAAK,0B;QAAf,OAAU,cAAV,
C;UAAU,mB;UACN,UAAU,sBAAM,CAAN,C;UACV,kBAAkB,sBAAY,GAAZ,C;UACC,oB;UAkIc,U;UAAjC,I
AlIkD,uBAAuB,CAAC,WAAY,mBAAY,GAAZ,CAkItF,C;YADA,mBAjI+C,C;;YAiI/C,mBACkB,UAlIW,GAkIX
,EAAe,UAlIC,WAkID,6DAAf,EAlI6B,CAkI7B,C;;UAlIlB,W1GuKJ,a0GvKgB,G1GuKhB,mB;;Q0GvCA,OA9HO
,W;O;KA2GX,C;sFAwBA,yB;MAAA,gB;MAAA,8B;MAAA,oD;QAxIc,Q;QAAA,OAAK,0B;QAAf,OAAU,cAA
V,C;UAAU,mB;UACN,UAAU,sBAAM,CAAN,C;UACV,kBA6JQ,WA7JU,WAAY,GAAZ,C;UACC,oB;UA8Jc,U
;UAAjC,IA9JkD,uBAAuB,CA4JjE,WA5J8E,mBAAY,GAAZ,CA8JtF,C;YADA,mBA7J+C,C;;YA6J/C,mBACkB,
UA9JW,GA8JX,EAAe,UA9JC,WA8JD,6DAAf,EA9J6B,CA8J7B,C;;UAFV,W1GWZ,a0GvKgB,G1GuKhB,mB;;Q
0GXA,OAAY,W;O;KAvBhB,C;IA6BA,6C;MArKc,Q;MAAA,OAAK,0B;MAAf,OAAU,cAAV,C;QAAU,mB;QA
CN,UAAU,sBAAM,CAAN,C;QACV,kBA+KG,WA/Ke,WAAY,GAAZ,C;QA2GgE,U;QAoE/E,W1GPP,a0GvKgB
,G1GuKhB,E0GOmC,CA9KmB,uBAAuB,CA8KtE,WA9KmF,mBAAY,GAAZ,CA0GjC,GAoErC,CApEqC,GAA6
B,UA1GhD,WA0GgD,6DAoEnD,IAAM,CAAN,I1GPnC,C;;M0GOA,OAAO,W;K;I+DnP0B,oC;MAAC,kB;MAA
uB,kB;K;;wCAN7D,Y;MAMsC,iB;K;wCANtC,Y;MAM6D,iB;K;0CAN7D,wB;MAAA,wBAMsC,qCANtC,EAM6
D,qCAN7D,C;K;sCAAA,Y;MAAA,OAMsC,mDANtC,IAM6D,wCAN7D,O;K;sCAAA,Y;MAAA,c;MAMsC,sD;
MAAuB,sD;MAN7D,a;K;oCAAA,iB;MAAA,4IAMsC,sCANtC,IAM6D,sCAN7D,I;K;wFpKEA,yB;MAAA,kC;M
AAA,4C;MAAA,kD;QAMuF,wC;O;MANvF,4CAOI,Y;QAAuC,8B;O;MAP3C,8E;MAAA,2B;QAMuF,2C;O;KA
NvF,C;IAcsC,2C;MAAC,wC;K;0CACnC,Y;MAAqD,4BAAiB,wBAAjB,C;K;;IAIzD,yC;MAI4D,OAAI,oCAAJ,G
AA2B,SAAK,KAAhC,GAA0C,I;K;IAEtG,uD;MAI0E,OAAI,oCAAJ,GAA2B,SAAK,KAAhC,GAA0C,S;K;IAGp
H,8B;MAMoB,Q;MADhB,aAAa,gB;MACG,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACL,OAAP,MAAO,E
AAO,OAAP,C;;MAEX,OAAO,M;K;IAGX,4B;MAUiB,Q;MAHb,mBAAmB,mCAAwB,EAAxB,C;MACnB,YAA
Y,iBAAa,YAAb,C;MACZ,YAAY,iBAAa,YAAb,C;MACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,KAAM,W
AAI,IAAK,MAAT,C;QACN,KAAM,WAAI,IAAK,OAAT,C;;MAEV,OAAO,UAAS,KAAT,C;K;wFUxDX,qB;MA
KqE,gB;K;IAErE,iC;MAMoE,4BAAiB,SAAjB,C;K;uFAEpE,gC;MAKI,OAAgB,mBAAhB,C;QAAgB,8B;QAAM,
UAAU,OAAV,C;;K;IAMY,oC;MAAC,0B;MACnC,eAAoB,C;K;yCACpB,Y;MAAwC,OAAA,eAAS,U;K;sCACjD
,Y;MAA6E,Q;MAAhC,wBAAa,oBAAmB,mBAAnB,EAAmB,2BAAnB,QAAb,EAA0C,eAAS,OAAnD,C;K;;sF2J
5BjD,yB;MAAA,4E;MAAA,gB;MAAA,8B;MAAA,+C;QAUiC,Q;QAA7B,OAA6B,wCAAqB,QAAS,aAA9B,0D;
O;KAVjC,C;wFAYA,yB;MAAA,4E;MAAA,gB;MAAA,8B;MAAA,+C;QAWiC,Q;QAA7B,OAA6B,wCAAqB,Q
AAS,aAA9B,0D;O;KAXjC,C;sFAaA,+C;MAQI,SAAK,aAAI,QAAS,aAAb,EAAmB,KAAnB,C;K;ICnCT,8C;MA
UI,IAAI,wCAAJ,C;QACI,OAAO,SAAK,4BAAqB,GAArB,C;MAET,4B;M3KoTI,Q;MALX,YAAY,oB2K/Sa,G3
K+Sb,C;MACZ,IAAI,iBAAiB,CAAC,4B2KhTG,G3KgTH,CAAtB,C;Q2KhTgC,MAAM,2BAAuB,wCAAvB,C;;Q
3KoTlC,2BAAO,sE;;M2KpTX,+B;K;IAGJ,8C;MAUQ,kBADE,SACF,kB;QADJ,OACkC,YAAT,SAAK,IAAI,EA

AY,YAAZ,C;;QADlC,OAEY,uBAAmB,SAAnB,EAAyB,YAAzB,C,K;IAGhB,gD;MAWQ,kBADE,SACF,yB;QA
DJ,OACyC,cAAT,SAAK,IAAI,EAAY,YAAZ,C;;QADzC,OAEY,8BAA0B,SAA1B,EAAgC,YAAhC,C,K;;;;;;;IAc
0B,4C;MAAC,wB;MAAoC,0B;K;qEAApC,Y;MAAA,yB;K;0CACvC,iB;MAA4C,OAAI,OAAJ,QAAI,EAAO,KA
AP,C;K;4CAChD,Y;MAA+B,OAAI,SAAJ,QAAI,C;K;4CACnC,Y;MAAkC,OAAA,QAAI,W;K;0FACf,Y;MAAQ,
OAAA,QAAI,K;K;2CACnC,Y;MAAkC,OAAA,QAAI,U;K;qDACtC,e;MAA4C,OAAA,QAAI,mBAAY,GAAZ,C;
K;uDAChD,iB;MAAgE,OAAA,QAAI,qBAAc,KAAd,C;K;6CACpE,e;MAA+B,OAAA,QAAI,WAAI,GAAJ,C;K;0
FACT,Y;MAAQ,OAAA,QAAI,K;K;4FACH,Y;MAAQ,OAAA,QAAI,O;K;6FACJ,Y;MAAQ,OAAA,QAAI,Q;K;8
DAEvD,e;MAAmD,gBAAJ,Q;MAAI,4B;M3K4PxC,Q;MALX,YAAY,oB2KvPyD,G3KuPzD,C;MACZ,IAAI,iBA
AiB,CAAC,4B2KxP+C,G3KwP/C,CAAtB,C;QACI,2B2KzPwE,mB;;Q3K4PxE,2BAAO,sE;;M2K5PoC,+B;K;;IA
GN,mD;MAAC,wB;MAA2C,0B;K;4EAA3C,Y;MAAA,yB;K;iDAC1C,iB;MAA4C,OAAI,OAAJ,QAAI,EAAO,K
AAP,C;K;mDAChD,Y;MAA+B,OAAI,SAAJ,QAAI,C;K;mDACnC,Y;MAAkC,OAAA,QAAI,W;K;iGACf,Y;MA
AQ,OAAA,QAAI,K;K;kDACnC,Y;MAAkC,OAAA,QAAI,U;K;4DACtC,e;MAA4C,OAAA,QAAI,mBAAY,GAA
Z,C;K;8DAChD,iB;MAAgE,OAAA,QAAI,qBAAc,KAAd,C;K;oDACpE,e;MAA+B,OAAA,QAAI,WAAI,GAAJ,C
;K;iGACF,Y;MAAQ,OAAA,QAAI,K;K;mGACH,Y;MAAQ,OAAA,QAAI,O;K;oGACU,Y;MAAQ,OAAA,QAAI,
Q;K;sDAE5E,sB;MAAyC,OAAA,QAAI,aAAI,GAAJ,EAAS,KAAT,C;K;uDAC7C,e;MAAkC,OAAA,QAAI,cAA
O,GAAP,C;K;yDACtC,gB;MAA2C,QAAI,gBAAO,IAAP,C;K;gDAC/C,Y;MAAuB,QAAI,Q;K;qEAE3B,e;MAAm
D,gBAAJ,Q;MAAI,4B;M3KuOxC,Q;MALX,YAAY,oB2KlOyD,G3KkOzD,C;MACZ,IAAI,iBAAiB,CAAC,4B2K
nO+C,G3KmO/C,CAAtB,C;QACI,2B2KpOwE,mB;;Q3KuOxE,2BAAO,sE;;M2KvOoC,+B;K;;I3KvFnD,oB;MAA
A,wB;MACI,8C;K;gCAEA,iB;MAA4C,oCAAsB,KAAM,U;K;kCACxE,Y;MAA+B,Q;K;kCAC/B,Y;MAAkC,W;K
;gFAEX,Y;MAAQ,Q;K;iCAC/B,Y;MAAkC,W;K;2CAElC,e;MAA+C,Y;K;6CAC/C,iB;MAAsD,Y;K;mCACtD,e;
MAAwC,W;K;mFACY,Y;MAAQ,6B;K;gFAC/B,Y;MAAQ,6B;K;kFACI,Y;MAAQ,8B;K;uCAEjD,Y;MAAiC,6B;
K;;;IAjBrC,gC;MAAA,+B;QAAA,c;OAAA,wB;K;IAoBA,oB;MAMuE,Q;MAA7B,OAA6B,uE;K;IAEvE,wB;MAa
I,OAAI,KAAM,OAAN,GAAa,CAAjB,GAA0B,QAAN,KAAM,EAAM,qBAAc,YAAY,KAAM,OAAlB,CAAd,CA
AN,CAA1B,GAA6E,U;K;kFAEjF,yB;MAAA,oD;MAAA,mB;QAO8C,iB;O;KAP9C,C;8FASA,yB;MAAA,wE;M
AAA,mB;QAQ4D,2B;O;KAR5D,C;IAUA,+B;MAYiD,gBAA7C,qBAAoB,YAAY,KAAM,OAAlB,CAApB,C;MA
AqD,wB;MAArD,OUJO,S;K;wFVMX,yB;MAAA,4D;MAAA,mB;QAOsD,qB;O;KAPtD,C;IASA,4B;MAM8G,gB
AAvC,eAAc,YAAY,KAAM,OAAlB,CAAd,C;MAA+C,wB;MAA/C,OUrB5D,S;K;4FVuBX,yB;MAAA,wE;MAA
A,mB;QAK8D,2B;O;KAL9D,C;IAOA,8B;MAU+E,OAAM,QAAN,KAAM,EAAM,qBAAc,YAAY,KAAM,OAAl
B,CAAd,CAAN,C;K;sFAErF,yB;MchBA,wE;MdgBA,gC;QcZiC,gBAAtB,oB;Qd8BiB,aU7DxB,W;QV6DA,OU5
DO,SI8B2C,Q;O;KdYtD,C;uFA0BA,yB;McnCA,uE;MdmCA,0C;Qc/ByC,gBAA9B,mBdqDiB,QcrDjB,C;QdqD2B
,aU3FlC,W;QV2FA,OU1FO,SIqCmD,Q;O;Kd+B9D,C;4FAoCA,qB;MAK+D,QAAC,mB;K;kGAEhE,qB;MAWI,O
AAO,qBAAgB,mB;K;sFAG3B,yB;MAAA,oD;MAAA,4B;QAM2D,uCAAQ,U;O;KANnE,C;sFAQA,mC;MASI,O
AAI,mBAAJ,GAAe,cAAf,GAAmC,S;K;yFAEvC,yB;MAyBA,kC;MAAA,8B;MAzBA,iC;QAgCiC,Q;QAxB2E,O
AwBxD,CAAnB,wDAAmB,oBAxBoE,GAwBpE,C;O;KAhCpD,C;+EAUA,yB;MAAA,kC;MAAA,8B;MAAA,iC;
QAKiC,Q;QAA7B,OAAgD,CAAnB,wDAAmB,YAAI,GAAJ,C;O;KALpD,C;+EAOA,iC;MAKI,sBAAI,GAAJ,EA
AS,KAAT,C;K;4FAGJ,yB;MAAA,kC;MAAA,8B;MAAA,iC;QAOiC,Q;QAA7B,OAAgD,CAAnB,wDAAmB,oBA
AY,GAAZ,C;O;KAPpD,C;gGASA,4B;MASsG,OAAA,SAAK,qBAAc,KAAd,C;K;kFAG3G,yB;MAAAA,gD;MAA
A,8B;MAAA,iC;QASiC,Q;QAA7B,OAAuD,CAA1B,+DAA0B,eAAO,GAAP,C;O;KAT3D,C;6FAWA,qB;MAWo
E,oB;K;6FAEpE,qB;MAWoE,sB;K;kFAEpE,yB;MAAA,6B;MAAA,4B;QAIgE,qBAAK,aAAL,EAAU,eAAV,C;O;
KAJhE,C;2FAMA,wC;MAMiF,Q;MAAA,mCAAI,GAAJ,oBAAY,c;K;uGAG7F,yB;MAAA,gB;MAAA,8B;MAA
A,+C;QAMe,Q;QALX,YAAY,oBAAI,GAAJ,C;QACZ,IAAI,iBAAiB,CAAC,4BAAY,GAAZ,CAAtB,C;UACI,OA
AO,c;;UAGP,OAAO,sE;;O;KANf,C;IAUA,oC;MAUkD,uCAAqB,GAArB,C;K;sFAElD,wC;MAUW,Q;MADP,YA
AY,oBAAI,GAAJ,C;MACL,IAAI,aAAJ,C;QACH,aAAa,c;QACb,sBAAI,GAAJ,EAAS,MAAT,C;QACA,a;;QAEA
,Y;;MALJ,W;K;wFASJ,qB;MAMwF,OAAA,iBAAQ,W;K;wFAEhG,qB;MAMgH,OAAA,iBAAQ,W;K;4FAExH,6
C;Maq1BoB,Q;MAAA,Obh1BT,iBag1BS,W;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;Qbh1Ba,Wai1Bb,aAAgB,O
bj1Be,Iai1B/B,Ebj1BsC,Sai1BZ,CAAe,OAAf,CAA1B,C;;Mbj1BhB,OAA6B,W;K;wFAGjC,6C;Ma60BoB,Q;MAA
A,Obr0BT,iBaq0BS,W;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;Qbr0Ba,Was0Bb,abt0B0B,Sas0BtB,CAAY,OAAZ
,CAAJ,EAAyC,Obt0BC,Mas0B1C,C;;Mbt0BhB,OAA6B,W;K;IAGjC,kC;MAIyB,Q;MAArB,wBAAqB,KAArB,g

B;QAAqB,aAAA,KAArB,M;QAAK,IAAC,yBAAD,EAAM,2B;QACP,sBAAI,GAAJ,EAAS,KAAT,C;;K;IAIR,oC;
MAIyB,Q;MAAA,uB;MAArB,OAAqB,cAArB,C;QAAqB,wB;QAAhB,IAAC,yBAAD,EAAM,2B;QACP,sBAAI,
GAAJ,EAAS,KAAT,C;;K;IAIR,oC;MAIyB,Q;MAAA,uB;MAArB,OAAqB,cAArB,C;QAAqB,wB;QAAhB,IAAC,
yBAAD,EAAM,2B;QACP,sBAAI,GAAJ,EAAS,KAAT,C;;K;wFAIR,yB;MAAA,0D;MAAA,uE;MAAA,uC;QAS
W,kBAAY,mBAAoB,YAAY,cAAZ,CAApB,C;Qa8xBH,Q;QAAA,Obh1BT,iBag1BS,W;QAAhB,OAAgB,cAAhB,
C;UAAgB,yB;Ubh1Ba,Wai1Bb,aAAgB,Obj1Be,Iai1B/B,Eb/xB2C,Sa+xBjB,CAAe,OAAf,CAA1B,C;;Qb/xBhB,O
AlD6B,W;O;KAyCjC,C;oFAYA,yB;MAAA,0D;MAAA,uE;MAAA,uC;QAYW,kBAAU,mBAAoB,YAAY,cAAZ,
CAApB,C;Qa+wBD,Q;QAAA,Obr0BT,iBaq0BS,W;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;Ubr0Ba,Was0Bb,abh
xByC,SagxBrC,CAAY,OAAZ,CAAJ,EAAyC,Obt0BC,Mas0B1C,C;;QbhxBhB,OAtD6B,W;O;KA0CjC,C;0FAeA,y
B;MAAA,wE;MAAA,uC;QAQkB,Q;QADd,aAAa,oB;QACC,OAAA,SA3FsE,QAAQ,W;QA2F5F,OAAc,cAAd,C;
UAAc,uB;UACV,IAAI,UAAU,KAAM,IAAhB,CAAJ,C;YACI,MAAO,aAAI,KAAM,IAAV,EAAe,KAAM,MAAr
B,C;;QAGf,OAAO,M;O;KAbX,C;8FAgBA,yB;MAAA,wE;MAAA,uC;QAQkB,Q;QADd,aAAa,oB;QACC,OAAA,
SA3GsE,QAAQ,W;QA2G5F,OAAc,cAAd,C;UAAc,uB;UACV,IAAI,UAAU,KAAM,MAAhB,CAAJ,C;YACI,MA
AO,aAAI,KAAM,IAAV,EAAe,KAAM,MAArB,C;;QAGf,OAAO,M;O;KAbX,C;yFAiBA,6C;MAOoB,Q;MAAA,
OAAA,SA3HoE,QAAQ,W;MA2H5F,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,UAAU,OAAV,CAAJ,C;UACI,
WAAY,aAAI,OAAQ,IAAZ,EAAiB,OAAQ,MAAzB,C;;MAGpB,OAAO,W;K;qFAGX,yB;MAAA,wE;MAAA,uC;
QAOW,kBAAS,oB;QAfA,Q;QAAA,OA3HoE,iBAAQ,W;QA2H5F,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAcmC,
SAd/B,CAAU,OAAV,CAAJ,C;YACI,WAAY,aAAI,OAAQ,IAAZ,EAAiB,OAAQ,MAAzB,C;;QAapB,OAVO,W;
O;KAGX,C;+FAUA,6C;MAOoB,Q;MAAA,OAAA,SApJoE,QAAQ,W;MAoJ5F,OAAgB,cAAhB,C;QAAgB,yB;Q
ACZ,IAAI,CAAC,UAAU,OAAV,CAAL,C;UACI,WAAY,aAAI,OAAQ,IAAZ,EAAiB,OAAQ,MAAzB,C;;MAGp
B,OAAO,W;K;2FAGX,yB;MAAA,wE;MAAA,uC;QAOW,kBAAY,oB;QAfH,Q;QAAA,OApJoE,iBAAQ,W;QAoJ
5F,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,CAckC,SAdjC,CAAU,OAAV,CAAL,C;YACI,WAAY,aAAI,OAA
Q,IAAZ,EAAiB,OAAQ,MAAzB,C;;QAapB,OAVO,W;O;KAGX,C;IAUA,0B;MAQqB,IAAAN,I;MADX,IAAI,oCA
AJ,C;QACW,QAAM,cAAN,C;eACH,C;YAAK,iB;YAAL,K;eACA,C;YAAK,aAAU,8BAAJ,GAAkB,sBAAK,CA
AL,CAAlB,GAA+B,oBAAW,OAAhD,C;YAAL,K;kBACQ,0BAAM,qBAAoB,YAAY,cAAZ,CAApB,CAAN,C;Y
AHL,K;;QAAP,W;OAMJ,OAAoC,oBAA7B,mBAAM,oBAAN,CAA6B,C;K;IAGxC,yC;MAIwB,SAApB,WAAoB
,Y;MAApB,kB;K;IAEJ,4B;MAM6D,QAAM,gBAAN,C;aACzD,C;UADyD,OACpD,U;aACL,C;UAFyD,OAEpD,
MAAM,UAAK,CAAL,CAAN,C;gBAFoD,OAGjD,mBAAM,qBAAoB,YAAY,gBAAZ,CAApB,CAAN,C;;K;IAG
Z,yC;MAIwB,OAApB,WAAoB,Y;MAApB,kB;K;IAEJ,4B;MAM4D,OAA6B,oBAA7B,mBAAM,oBAAN,CAA6B
,C;K;IAEzF,yC;MAIwB,SAApB,WAAoB,Y;MAApB,kB;K;IAEJ,4B;MAMqD,QAAM,cAAN,C;aACjD,C;UADiD
,OAC5C,U;aACL,C;UAFiD,Oc/X8B,uB;gBd+X9B,OAGzC,uB;;K;IAGZ,iC;MAMmE,4BAAc,SAAd,C;K;IAEnE,
yC;MAKI,WAAoB,0B;MAApB,kB;K;IAEJ,kC;MAOI,Q;MAAA,IAAI,SAAK,UAAT,C;QAAA,OAAoB,MAAM,I
AAN,C;;QAAqC,kBAApB,qBAAc,SAAd,C;QAA4B,wBAAS,UAAT,EAAqB,WAArB,C;QAAjE,OUhiBO,W;;M
VgiBP,W;K;IAEJ,mC;MAOI,Q;MAAA,IAAI,SAAK,UAAT,C;QAAA,OAA0B,MAAN,KAAM,C;;QAAiC,kBAAp
B,qBAAc,SAAd,C;QAA4B,4B;QAAnE,OUziBO,W;;MVyiBP,W;K;IAEJ,mC;MAOI,Q;MAAA,IAAI,SAAK,UAA
T,C;QAAA,OAA0B,QAAN,KAAM,C;;QAAiC,kBAApB,qBAAc,SAAd,C;QAA4B,0B;QAAnE,OUljBO,W;;MVkj
BP,W;K;IAEJ,mC;MAOwB,kBAApB,qBAAc,SAAd,C;MAA4B,4B;MAA5B,OAA4C,oBU3jBrC,WV2jBqC,C;K;I
AEhD,iC;MAOwB,kBAApB,qBAAc,SAAd,C;MAA4B,+B;MAA5B,OUpkBO,W;K;0FVukBX,2B;MAKI,sBAAI,I
AAK,MAAT,EAAgB,IAAK,OAArB,C;K;4FAGJ,yB;MAAA,gD;MAAA,mC;QAKI,kBAAO,KAAP,C;O;KALJ,C;
4FAQA,yB;MAAA,gD;MAAA,mC;QAKI,kBAAO,KAAP,C;O;KALJ,C;4FAQA,yB;MAAA,gD;MAAA,mC;QAK
I,kBAAO,KAAP,C;O;KALJ,C;4FAQA,0B;MAKI,yBAAO,GAAP,C;K;IAGJ,kC;MAOwB,kBAAf,aAAL,SAAK,C;
MAsCL,6B;MAtCA,OAA+C,oBUtnBxC,WVsnBwC,C;K;IAEnD,mC;MAQwB,kBAAf,aAAL,SAAK,C;MAqCK,
YAAL,gBAAK,O;MArCV,OAAgD,oBUhoBzC,WVgoByC,C;K;IAEpD,mC;MAQwB,kBAAf,aAAL,SAAK,C;MA
oCK,YAAL,gBAAK,O;MApCV,OAAgD,oBU1oBzC,WV0oByC,C;K;IAEpD,mC;MAQwB,kBAAf,aAAL,SAAK,
C;MAmCK,YAAL,gBAAK,O;MAnCV,OAAgD,oBUppBzC,WVopByC,C;K;4FAEpD,0B;MAMI,uBAAO,GAAP,
C;K;8FAGJ,yB;MAAA,sD;MAAA,kC;QAMc,UAAV,SAAK,KAAK,EAAU,IAAV,C;O;KANd,C;8FASA,yB;MA
AA,sD;MAAA,kC;QAMc,UAAV,SAAK,KAAK,EAAU,IAAV,C;O;KANd,C;8FASA,yB;MAAA,sD;MAAA,kC;Q
AMc,UAAV,SAAK,KAAK,EAAU,IAAV,C;O;KANd,C;IAUA,wC;MACsD,QAAM,cAAN,C;aAClD,C;UADkD,O

AC7C,U;aACL,C;UAFkD,gB;gBAAA,OAG1C,S;;K;oF4KtwBZ,yB;MAAA,8D;MAAA,8B;MAAA,qC;QAUiC,Q;
QAA7B,OAA2D,CAA9B,sEAA8B,eAAO,OAAP,C;O;KAV/D,C;wFAYA,yB;MAAA,8D;MAAA,8B;MAAA,sC;
QASiC,Q;QAA7B,OAA2D,CAA9B,sEAA8B,oBAAU,QAAV,C;O;KAT/D,C;wFAWA,yB;MAAA,8D;MAAA,8B;
MAAA,sC;QASiC,Q;QAA7B,OAA2D,CAA9B,sEAA8B,oBAAU,QAAV,C;O;KAT/D,C;4FAWA,8B;MAKI,SAA
K,WAAI,OAAJ,C;K;4FAGT,yB;MAAA,gD;MAAA,sC;QAKS,OAAL,SAAK,EAAO,QAAP,C;O;KALT,C;4FAQ
A,yB;MAAA,gD;MAAA,sC;QAKS,OAAL,SAAK,EAAO,QAAP,C;O;KALT,C;4FAQA,yB;MAAA,gD;MAAA,sC
;QAKS,OAAL,SAAK,EAAO,QAAP,C;O;KALT,C;8FAQA,8B;MAKI,SAAK,cAAO,OAAP,C;K;8FAGT,yB;MAA
A,sD;MAAA,sC;QAKS,UAAL,SAAK,EAAU,QAAV,C;O;KALT,C;8FAQA,yB;MAAA,sD;MAAA,sC;QAKS,UA
AL,SAAK,EAAU,QAAV,C;O;KALT,C;8FAQA,yB;MAAA,sD;MAAA,sC;QAKS,UAAL,SAAK,EAAU,QAAV,C
;O;KALT,C;IAQA,qC;MAIU,IAIe,I;MAHjB,kBADE,QACF,c;QAAiB,OAAO,yBAAO,QAAP,C;;QAEpB,aAAsB,
K;QACT,0B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,IAAI,oBAAI,IAAJ,CAAJ,C;YAAe,SAAS,I;;QAC5B,OAAO
,M;;K;IAKnB,uC;MAKiB,Q;MADb,aAAsB,K;MACT,0B;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,IAAI,oBAAI,I
AAJ,CAAJ,C;UAAe,SAAS,I;;MAE5B,OAAO,M;K;IAGX,uC;MAII,OAAO,yBAAgB,OAAT,QAAS,CAAhB,C;K;
IAGX,0C;MAIW,iBAAmB,gCAAT,QAAS,EAAgC,SAAhC,C;MAlHG,Q;MAkH7B,OAlH2D,CAA9B,sEAA8B,o
BAAU,UAAV,C;K;IAqH/D,0C;MAII,UAAmB,8BAAT,QAAS,C;MACnB,O7K0EwD,C6K1EjD,G7K0EkD,U6K1
ElD,IAAoB,4BAAU,GAAV,C;K;IAG/B,0C;MAII,OnLqoPO,EmLroPA,QnL6jPA,YAAQ,CAwER,CmLroPA,IAA
yB,4BAAmB,8BAAT,QAAS,CAAnB,C;K;IAGpC,0C;MAIW,iBAAmB,gCAAT,QAAS,EAAgC,SAAhC,C;MA7H
G,Q;MA6H7B,OA7H2D,CAA9B,sEAA8B,oBAAU,UAAV,C;K;IAgI/D,0C;MAII,InLunPO,EmLvnPH,QnL+iPG,
YAAQ,CAwER,CmLvnPP,C;QACI,OAAO,4BAAmB,8BAAT,QAAS,CAAnB,C;;QAEP,OAAO,wB;K;IAGf,0C;
MAII,UAAmB,8BAAT,QAAS,C;MACnB,I7K0CwD,C6K1CpD,G7K0CqD,U6K1CzD,C;QACI,OAAO,4BAAU,G
AAV,C;;QAEP,OAAO,wB;K;IAGf,kC;MACI,a7KmCwD,CAAC,mB;M6KlCzD,iB;MACA,OAAO,M;K;IAIX,2C;
MAKkF,gCAAc,SAAd,EAAyB,IAAzB,C;K;IAElF,2C;MAKkF,gCAAc,SAAd,EAAyB,KAAzB,C;K;IAElF,sE;MA
CI,iBAAa,KAAb,C;MlKlJgB,kBkKmJX,oB;MACD,OAAO,qBAAP,C;QACI,IAAI,UAAU,kBAAV,6BAAJ,C;UA
CI,oB;UACA,WAAS,I;SAGrB,OAAO,Q;K;oFAIX,4B;MAM6D,kCAAS,KAAT,C;K;IAE7D,gC;MAKiD,IAAI,m
BAAJ,C;QAAe,MAAM,2BAAuB,gBAAvB,C;;QAArB,OAAmE,2BAAS,CAAT,C;K;IAEpH,sC;MAKwD,OAAI,
mBAAJ,GAAe,IAAf,GAAyB,2BAAS,CAAT,C;K;IAEjF,+B;MAKgD,IAAI,mBAAJ,C;QAAe,MAAM,2BAAuB,g
BAAvB,C;;QAArB,OAAmE,2BAAS,2BAAT,C;K;IAEnH,qC;MAKuD,OAAI,mBAAJ,GAAe,IAAf,GAAyB,2BA
AS,2BAAT,C;K;IAEhF,2C;MAK8E,kCAAc,SAAd,EAAyB,IAAzB,C;K;IAE9E,2C;MAK8E,kCAAc,SAAd,EAAy
B,KAAzB,C;K;IAE9E,wE;MAEgB,UAGS,MAHT,EAcY,MAdZ,EAc6B,M;MAfzC,IAAI,uCAAJ,C;QACI,OAAo
C,cAA5B,sEAA4B,EAAc,SAAd,EAAyB,uBAAzB,C;MAExC,iBAAsB,C;MACD,oC;MAArB,qBAAkB,CAAlB,m
C;QACI,cAAc,sBAAK,SAAL,C;QACd,IAAI,UAAU,OAAV,MAAsB,uBAA1B,C;UACI,Q;QAEJ,IAAI,eAAc,SA
AlB,C;UACI,sBAAK,UAAL,EAAmB,OAAnB,C;QAEJ,+B;;MAEJ,IAAI,aAAa,cAAjB,C;QACwB,oC;QAAiB,mB
;QAArC,oE;UACI,2BAAS,WAAT,C;QAEJ,OAAO,I;;QAEP,OAAO,K;;K;IChS+B,wC;MAAkC,uB;MAAjC,0B;K;
4FACpB,Y;MAAQ,OAAA,eAAS,K;K;iDACxC,iB;MAAkC,mCAAS,0BAAoB,KAApB,CAAT,C;K;;IAGT,gC;M
AAyC,8B;MAAxC,0B;K;oFACH,Y;MAAQ,OAAA,eAAS,K;K;yCACxC,iB;MAAkC,mCAAS,0BAAoB,KAApB,
CAAT,C;K;mCAElC,Y;MAAuB,eAAS,Q;K;8CAChC,iB;MAAuC,OAAA,eAAS,kBAAS,0BAAoB,KAApB,CAA
T,C;K;yCAEhD,0B;MAA8C,OAAA,eAAS,aAAI,0BAAoB,KAApB,CAAJ,EAAgC,OAAhC,C;C;K;yCACvD,0B;MA
CI,eAAS,aAAI,2BAAqB,KAArB,CAAJ,EAAiC,OAAjC,C;C;K;;IAIjB,+C;MACoB,Q;MAAA,kC;MAAhB,IAAa,CA
AT,0BAAJ,C;QAAA,OAA2B,8BAAY,KAAZ,I;;QAAuB,MAAM,8BAA0B,mBAAgB,KAAhB,2BAA0C,gBAAG,
2BAAH,CAA1C,OAA1B,C;K;IAE5D,gD;MACoB,Q;MAAA,qB;MAAhB,IAAa,CAAT,0BAAJ,C;QAAA,OAAsB,
iBAAO,KAAP,I;;QAAkB,MAAM,8BAA0B,oBAAiB,KAAjB,2BAA2C,gBAAG,cAAH,CAA3C,OAA1B,C;K;IAG
lD,+B;MAK+C,gCAAqB,SAArB,C;K;IAE/C,iC;MAM6D,wBAAa,SAAb,C;K;;;;IvKpC7D,oD;MAQuF,wC;K;IAR
vF,8CASI,Y;MAAuC,8B;K;IAT3C,gF;IwKY8G,wC;MAAA,mB;QAAE,kBAAS,aAAT,C;O;K;IAThH,yB;MASqG
,oCAAS,sBAAT,C;K;8FAErG,yB;MAAA,kD;MxKdA,kC;MAAA,0C;MAAA,kD;QAQuF,wC;O;MARvF,4CASI,
Y;QAAuC,8B;O;MAT3C,8E;MwKiB2I,qD;QAAA,mB;UAAE,gBAAS,qBAAT,C;S;O;MAH7I,gC;QAGkI,kCAAS
,mCAAT,C;O;KAHlI,C;IAKA,2B;MAQI,eAAe,6B;MACf,oBAA0B,+BAAN,KAAM,EAAwC,QAAxC,EAA+D,Q
AA/D,C;MAC1B,OAAO,Q;K;8FAGX,yB;MAAA,kD;MAAA,gC;QAGkI,gBAAS,aAAT,C;O;KAHlI,C;IAgB0C,y
B;K;+CAoBtC,kC;MAOI,IAAI,uCAA0B,QAAS,UAAvC,C;QAAkD,M;MAClD,OAAO,sBAAS,QAAS,WAAlB,e;

K;+CAGX,kC;MAQqD,6BAAS,QAAS,WAAlB,e;K;;;;;;;IAezD,mC;MAA2C,wB;MACvC,eAAoB,C;MACpB,mBAA4B,I;MAC5B,sBAAyC,I;MACzC,gBAAoC,I;K;gDAEpC,Y;MACI,OAAO,IAAP,C;QACI,QAAM,YAAN,C;eACI,C;YAAA,K;eACA,C;YACI,IAAI,kCAAe,UAAnB,C;cACI,eAAQ,C;cACR,OAAO,I;;cAEP,sBAAe,I;;;YALvB,K;eAOA,C;YAAc,OAAO,K;eACrB,C;eAAA,C;YAAgC,OAAO,I;kBAC/B,MAAM,yB;;QAGlB,eAAQ,C;QACR,WAAW,4B;QACX,gBAAW,I;QACX,IxH/FR,oBDgDQ,WyH+CY,kBzH/CZ,CChDR,C;;K;6CwHmGA,Y;MACU,IASe,I;MATrB,QAAM,YAAN,C;aACI,C;aAAA,C;UAAsC,OAAO,qB;aAC7C,C;UACI,eAAQ,C;UACR,OAAO,kCAAe,O;aAE1B,C;UACI,eAAQ,C;UACR,aACa,mF;UACb,mBAAY,I;UACZ,OAAO,M;gBAEH,MAAM,yB;;K;uDAItB,Y;MACI,IAAI,CAAC,cAAL,C;QAAAgB,MAAM,6B;;QAA8B,OAAO,W;K;2DAG/D,Y;MAA4C,QAAM,YAAN,C;aACxC,C;UADwC,OAC1B,6B;aACd,C;UAFwC,OAExB,6BAAsB,sBAAtB,C;gBAFwB,OAGhC,6BAAsB,uCAAoC,YAA1D,C;;K;IAOqC,4E;MAAA,oB;QACzC,wCAAW,C;QAAX,OACA,yB;O;K;oDALR,+B;MACI,mBAAY,K;MACZ,eAAQ,C;MACR,OAA6C,0CAAtC,c;K;IAUsC,+E;MAAA,oB;QACzC,wCAAW,C;QAAX,OACA,yB;O;K;yDANR,kC;MACI,IAAI,CAAC,QAAS,UAAd,C;QAAAyB,M;MACzB,sBAAe,Q;MACf,eAAQ,C;MACR,OAA6C,6CAAtC,c;K;2DAMX,kB;MzHjBO,Q;MADP,eyHoBI,MzHpBJ,C;MACO,QyHmBH,MzHnBG,+D;MyHoBH,eAAQ,C;K;kGAIR,Y;MAAQ,0C;K;;IxK1LhB,oD;MAQuF,wC;K;IARvF,8CASI,Y;MAAuC,8B;K;IAT3C,gF;sFAAA,yB;MAAA,kC;MAAA,0C;MAAA,kD;QAQuF,wC;O;MARvF,4CASI,Y;QAAuC,8B;O;MAT3C,8E;MAAA,2B;QAQuF,2C;O;KARvF,C;IAiBgE,+C;MAAA,mB;QAAE,sB;O;K;IALlE,kC;MAKuD,OAAkB,2CAAT,+BAAS,E;K;IAEzE,8B;MAK6D,OAAI,Qb2rPtD,YAAQ,Ca3rP0C,GAAwB,eAAxB,GAAsD,WAAT,QAAS,C;K;IAEnH,yB;MAG8C,kC;K;IAE9C,yB;MAAA,6B;K;uCACI,Y;MAA6C,kC;K;2CAC7C,a;MAA4B,kC;K;2CAC5B,a;MAA4B,kC;K;;;IAHhC,qC;MAAA,oC;QAAA,mB;OAAA,6B;K;oFAMA,yB;MAAA,2D;MAAA,4B;QAM4D,uCAAQ,e;O;KANpE,C;IAgB4F,mH;MAAA,wC;MAAA,6B;MAAA,yB;MAAA,wC;MAAA,wD;MAAA,kC;K;;;;kDAAA,Y;;;;;cACxF,eAAe,uBAAa,W;cAC5B,IAAI,QAAS,UAAb,C;gBACI,gB;gCAAA,sCAAS,QAAT,O;oBAAA,2C;yBAAA,yB;gBAAA,Q;;gBAEA,gB;gCAAA,sCAAS,iCAAT,O;oBAAA,2C;yBAAA,yB;gBAAA,Q;;;;;cAJJ,W;;cAAA,W;;;;;;;;;;;;;;;K;IADwF,gE;MAAA,yD;uBAAA,uG;YAAA,S;iBAAA,Q;;iBAAA,uB;O;K;IAP5F,4C;MAOmF,gBAAS,uCAAT,C;K;IAgBb,4B;MAAE,OAAA,EAAAG,W;K;IAP3E,8B;MAO8D,4BAAQ,cAAR,C;K;IAUQ,8B;MAAE,OAAA,EAAAG,W;K;IAR3E,8B;MAQ8D,4BAAQ,gBAAR,C;K;IAM1B,8B;MAAE,S;K;IAJtC,wC;MAEgB,Q;MADZ,IAAI,8CAAJ,C;QACI,OAA4C,CAApC,2EAAoC,kBAAQ,QAAR,C;OAEhD,OAAO,uBAAmB,SAAnB,EAAyB,gBAAzB,EAAiC,QAAjC,C;K;IAGX,4B;MAYiB,Q;MAFb,YAAY,gB;MACZ,YAAY,gB;MACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,KAAM,WAAI,IAAK,MAAT,C;QACN,KAAM,WAAI,IAAK,OAAT,C;;MAEV,OAAO,UAAS,KAAT,C;K;IAGX,+B;MAQqD,6BAAS,4BAAT,C;K;IAW0B,+G;MAAA,wC;MAAA,6B;MAAA,yB;MAAA,0C;MAAA,4C;MAAA,0B;MAAA,kC;K;;;;mDAAA,Y;;;;;kCAC9D,0C;cACb,gB;;;;cAAA,IAAAO,iBPyFkD,UOzFzD,C;gBAAA,gB;;;cACI,QAAQ,yBAAO,iBAAQ,iBAAO,KAAf,C;cACf,WAAkB,WAAP,iBAAO,C;cAClB,YAAgB,IAAI,iBAAO,KAAf,GAAqB,iBAAO,aAAI,CAAJ,EAAO,IAAP,CAA5B,GAA8C,I;cAC1D,gB;8BAAA,iCAAM,KAAN,O;kBAAA,2C;uBAAA,yB;cAAA,Q;;cAAJJ,gB;;;cAAMJ,W;;;;;;;;;;;;;K;IAR+E,4D;MAAA,yD;uBAAA,mG;YAAA,S;iBAAA,Q;;iBAAA,uB;O;K;IAT/E,uC;MASmE,gBAAY,kCAAZ,C;K;IAkBhC,0D;MAAE/B,wB;QAAA,WAAAgC,I;MADhC,0B;MACA,4B;K;IAGuC,0E;MAAA,oD;MACnC,gBAAAe,iCAAS,W;MACACxB,iBAAAqB,E;MACArB,gBAAAmB,I;K;oEAEnB,Y;MACI,OAAO,aAAS,UAAAhB,C;QACI,WAAW,aAAS,O;QACpB,IAAI,wCAAU,IAAAV,MAAAmB,sCAAAvB,C;UACI,gBAAAW,I;UACACX,iBAAAY,C;UACACZ,M;;MAGR,iBAAAY,C;K;8DAGhB,Y;MASW,Q;MARP,IAAI,mBAAAa,EAAAjB,C;QACI,iB;MACACJ,IAAI,mBAAAa,CAAAjB,C;QACI,MAAM,6B;MACACV,aAAAa,a;MACAb,gBAAAW,I;MACACX,iBAAAY,E;MAEZ,OAAO,yE;K;iEAGX,Y;MACI,IAAI,mBAAAa,EAAAjB,C;QACI,iB;MACACJ,OAAO,mBAAAa,C;K;;2CAhC5B,Y;MAAAuC,yD;K;;IA2C3C,qD;MAAAY,0B;MAAAmC,gC;K;IACJ,gF;MAAAA,0D;MACAnC,gBAAAe,oCAAAS,W;K;iEACAxB,Y;MACI,OAAO,6CAAAY,aAAAS,OAArB,C;K;oEAGX,Y;MACI,OAAO,aAAAS,U;K;;8CAPxB,Y;MAAAuC,4D;K;qDAWvC,oB;MACI,OAAO,uBAA4B,eAA5B,EAAAsC,kBAAAtC,EAAAmD,QAAAnD,C;K;;IAUf,4D;MAAAY,0B;MAAAmC,gC;K;IACJ,8F;MAAAA,wE;MACAnC,gBAAAe,2CAAAS,W;MACACxB,aAAAY,C;K;wEACACZ,Y;MAC0C,Q;MAAAtC,OAAAO,oDAAAY,oBAAAmB,iBAAAnB,EAAAmB,yBAAAnB,QAAAZ,EAAAyC,aAAAS,OAAAlD,C;K;2EAGX,Y;MACI,OAAO,aAAAS,U;K;;qDARxB,Y;MAAAuC,mE;K;;IAkB3C,oC;MAAAY,0B;K;IAC6C,wE;MAAjD,gBAAAe,gCAAAS,W;MACAxB,aAAAY,C;K;6DACACZ,Y;MAC2C,Q;MAAAvC,OAAAO,iBAAAa,oBAAAmB,iBAAAnB,EAAAmB,yBAAAnB,QAAAb,EAAA0C,aAAAS,OAAAnD,C;K;gEAGX,Y;MACI,OAAO,aAAAS,U;K;;0CARxB,Y;MAAAqD,wD;K;;IAmBzD,0D;MACI,4B;MACACA,4B;K;IAEuC,sE;MAAAA,gD;MAAACnC,i

BAAgB,gCAAU,W;MAC1B,iBAAgB,gCAAU,W;K;4DAC1B,Y;MACI,OAAO,sCAAU,cAAU,OAApB,EAA4B,cAAU,OAAtC,C;K;+DAGX,Y;MACI,OAAO,cAAU,UAAV,IAAuB,cAAU,U;K;;yCARhD,Y;MAAuC,uD;K;;IAc3C,6D;MACI,0B;MACA,gC;MACA,0B;K;IAEuC,4E;MAAA,sD;MACnC,gBAAe,kCAAS,W;MACxB,oBAAiC,I;K;+DAEjC,Y;MACI,IAAI,CAAC,2BAAL,C;QACI,MAAM,6B;MACV,OAAO,gCAAe,O;K;kEAG1B,Y;MACI,OAAO,2B;K;+EAGX,Y;MACQ,Q;MAAJ,IAAI,iEAA2B,KAA/B,C;QACI,oBAAe,I;MAEnB,OAAO,yBAAP,C;QACI,IAAI,CAAC,aAAS,UAAd,C;UACI,OAAO,K;;UAEP,cAAc,aAAS,O;UACvB,uBAAuB,wCAAS,2CAAY,OAAZ,C;QAAT,IAAI,gBAAiB,UAArB,B,C;YACI,oBAAiB,gB;YACf,OAAO,I;;;MAInB,OAAO,I;K;;4CA9Bf,Y;MAAuC,0D;K;;IAoC9B,9I;MAAA,wC;MAAA,6B;MAAA,yB;MAAA,4C;MAAA,kD;MAAA,gD;MAAA,wB;MAAA,yB;MAAA,kC;K;;;;yDAAA,Y;;;;;kBAGyC,I;iCAFlC,C;cACI,sD;cAAhB,gB;;;;;cAAA,KAAgB,yBAAhB,C;gBAAA,gB;;;cAAgB,oC;cACZ,aAAa,6BAAU,oBAAmB,uBAAnB,EAAmB,+BAAnB,QAAV,EAAuC,OAAvC,C;cACb,gB;8BAAA,sCAAS,4BAAS,MAAT,CAAS,O;kBAAA,2C;uBAAA,yB;cAAA,Q;;cAFJ,gB;;;cAIJ,W;;;;;;;;;;;;;;;K;IANS,0F;MAAA,yD;uBAAA,iI;YAAA,S;iBAAA,Q;;iBAAA,uB;O;K;IADb,wD;MACI,gBAAS,kDAAT,C;QAAA,gB;;;IAAS,qD;MACzB,0B;MACA,8B;MACA,0B;MC3TA,IAAI,ED+TQ,qBAAc,CC/TtB,CAAJ,C;QACI,cD8T2B,+CA4C/B,iB;QC7TvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;OAFV,IAAI,EDgUQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;QAAJ,IAAI,gBAAiB,UAArB,B,C;YACI,cD+T2B,+CA4C/B,iB;YC5WvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;WAFV,IAAI,EDiXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;YAAJ,IAAI,gBAAiB,UAArB,B,C;gBACI,cDgU2B,+CA4C/B,iB;gBC7WvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;eAFV,IAAI,EDkXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;gBAAJ,IAAI,gBAAiB,UAArB,B,C;oBACI,cDiU2B,+CA4C/B,iB;oBC9WvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;mBAFV,IAAI,EDmXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;oBAAJ,IAAI,gBAAiB,UAArB,B,C;wBACI,cDkU2B,+CA4C/B,iB;wBC/WvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;uBAFV,IAAI,EDoXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;wBAAJ,IAAI,gBAAiB,UAArB,B,C;4BACI,cDmU2B,+CA4C/B,iB;4BChXvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;2BAFV,IAAI,EDqXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;4BAAJ,IAAI,gBAAiB,UAArB,B,C;gCACI,cDoU2B,+CA4C/B,iB;gCCjXvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;+BAFV,IAAI,EDsXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;gCAAJ,IAAI,gBAAiB,UAArB,B,C;oCACI,cDqU2B,+CA4C/B,iB;oCClXvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;mCAFV,IAAI,EDuXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;oCAAJ,IAAI,gBAAiB,UAArB,B,C;wCACI,cDsU2B,+CA4C/B,iB;wCCnXvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;uCAFV,IAAI,EDwXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;wCAAJ,IAAI,gBAAiB,UAArB,B,C;4CACI,cDuU2B,+CA4C/B,iB;4CCpXvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;2CAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;4CAAJ,IAAI,gBAAiB,UAArB,B,C;gDACI,cDwU2B,+CA4C/B,iB;gDCrXvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;+CAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;gDAAJ,IAAI,gBAAiB,UAArB,B,C;oDACI,cDyU2B,+CA4C/B,iB;oDCtXvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;mDAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;oDAAJ,IAAI,gBAAiB,UAArB,B,C;wDACI,cD0U2B,+CA4C/B,iB;wDCvXvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;uDAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;wDAAJ,IAAI,gBAAiB,UAArB,B,C;4DACI,cD2U2B,+CA4C/B,iB;4DCxXvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;2DAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;4DAAJ,IAAI,gBAAiB,UAArB,B,C;gEACI,cD4U2B,+CA4C/B,iB;gECzXvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;+DAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;gEAAJ,IAAI,gBAAiB,UAArB,B,C;oEACI,cD6U2B,+CA4C/B,iB;oEC1XvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;mEAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;oEAAJ,IAAI,gBAAiB,UAArB,B,C;wEACI,cD8U2B,+CA4C/B,iB;wEC3XvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;uEAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;wEAAJ,IAAI,gBAAiB,UAArB,B,C;4EACI,cD+U2B,+CA4C/B,iB;4EC5XvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;2EAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;4EAAJ,IAAI,gBAAiB,UAArB,B,C;gFACI,cDgV2B,+CA4C/B,iB;gFC7XvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;+EAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;gFAAJ,IAAI,gBAAiB,UAArB,B,C;oFACI,cDiV2B,+CA4C/B,iB;oFC9XvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;mFAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;oFAAJ,IAAI,gBAAiB,UAArB,B,C;wFACI,cDkV2B,+CA4C/B,iB;wFC/XvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;uFAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;wFAAJ,IAAI,gBAAiB,UAArB,B,C;4FACI,cDmV2B,+CA4C/B,iB;4FChYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;2FAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;4FAAJ,IAAI,gBAAiB,UAArB,B,C;gGACI,cDoV2B,+CA4C/B,iB;gGCjYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;+FAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;gGAAJ,IAAI,gBAAiB,UAArB,B,C;oGACI,cDqV2B,+CA4C/B,iB;oGClYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;mGAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;oGAAJ,IAAI,gBAAiB,UAArB,B,C;wGACI,cDsV2B,+CA4C/B,iB;wGCnYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;uGAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;wGAAJ,IAAI,gBAAiB,UAArB,B,C;4GACI,cDuV2B,+CA4C/B,iB;4GCpYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;2GAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;4GAAJ,IAAI,gBAAiB,UAArB,B,C;gHACI,cDwV2B,+CA4C/B,iB;gHCrYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;+GAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;gHAAJ,IAAI,gBAAiB,UAArB,B,C;oHACI,cDyV2B,+CA4C/B,iB;oHCtYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;mHAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;oHAAJ,IAAI,gBAAiB,UAArB,B,C;wHACI,cD0V2B,+CA4C/B,iB;wHCvYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;uHAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;wHAAJ,IAAI,gBAAiB,UAArB,B,C;4HACI,cD2V2B,+CA4C/B,iB;4HCxYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;2HAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;4HAAJ,IAAI,gBAAiB,UAArB,B,C;gIACI,cD4V2B,+CA4C/B,iB;gICzYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;+HAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;gIAAJ,IAAI,gBAAiB,UAArB,B,C;oIACI,cD6V2B,+CA4C/B,iB;oIC1YvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;mIAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;oIAAJ,IAAI,gBAAiB,UAArB,B,C;wIACI,cD8V2B,+CA4C/B,iB;wICvYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;uIAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;wIAAJ,IAAI,gBAAiB,UAArB,B,C;4IACI,cD+V2B,+CA4C/B,iB;4ICxYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;2IAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;4IAAJ,IAAI,gBAAiB,UAArB,B,C;gJACI,cDgW2B,+CA4C/B,iB;gJCzYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;+IAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;gJAAJ,IAAI,gBAAiB,UAArB,B,C;oJACI,cDiW2B,+CA4C/B,iB;oJC1YvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;mJAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;oJAAJ,IAAI,gBAAiB,UAArB,B,C;wJACI,cDkW2B,+CA4C/B,iB;wJCvYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;uJAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;wJAAJ,IAAI,gBAAiB,UAArB,B,C;4JACI,cDmW2B,+CA4C/B,iB;4JCxYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;2JAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;4JAAJ,IAAI,gBAAiB,UAArB,B,C;gKACI,cDoW2B,+CA4C/B,iB;gKCzYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;+JAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;gKAAJ,IAAI,gBAAiB,UAArB,B,C;oKACI,cDqW2B,+CA4C/B,iB;oKC1YvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;mKAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;oKAAJ,IAAI,gBAAiB,UAArB,B,C;wKACI,cDsW2B,+CA4C/B,iB;wKCvYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;uKAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;wKAAJ,IAAI,gBAAiB,UAArB,B,C;4KACI,cDuW2B,+CA4C/B,iB;4KCxYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;2KAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;4KAAJ,IAAI,gBAAiB,UAArB,B,C;gLACI,cDwW2B,+CA4C/B,iB;gLCzYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;+KAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;gLAAJ,IAAI,gBAAiB,UAArB,B,C;oLACI,cDyW2B,+CA4C/B,iB;oLC1YvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;mLAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;oLAAJ,IAAI,gBAAiB,UAArB,B,C;wLACI,cD0W2B,+CA4C/B,iB;wLCvYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;uLAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;wLAAJ,IAAI,gBAAiB,UAArB,B,C;4LACI,cD2W2B,+CA4C/B,iB;4LCxYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;2LAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;4LAAJ,IAAI,gBAAiB,UAArB,B,C;gMACI,cD4W2B,+CA4C/B,iB;gMCzYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;+LAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;gMAAJ,IAAI,gBAAiB,UAArB,B,C;oMACI,cD6W2B,+CA4C/B,iB;oMC1YvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;mMAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;oMAAJ,IAAI,gBAAiB,UAArB,B,C;wMACI,cD8W2B,+CA4C/B,iB;wMCvYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;uMAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;wMAAJ,IAAI,gBAAiB,UAArB,B,C;4MACI,cD+W2B,+CA4C/B,iB;4MCxYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;2MAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;4MAAJ,IAAI,gBAAiB,UAArB,B,C;gNACI,cDgX2B,+CA4C/B,iB;gNCzYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;+MAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;gNAAJ,IAAI,gBAAiB,UAArB,B,C;oNACI,cDiX2B,+CA4C/B,iB;oNC1YvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;mNAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;oNAAJ,IAAI,gBAAiB,UAArB,B,C;wNACI,cDkX2B,+CA4C/B,iB;wNCvYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;uNAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;wNAAJ,IAAI,gBAAiB,UAArB,B,C;4NACI,cDmX2B,+CA4C/B,iB;4NCxYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;2NAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;4NAAJ,IAAI,gBAAiB,UAArB,B,C;gOACI,cDoX2B,+CA4C/B,iB;gOCzYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;+NAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;gOAAJ,IAAI,gBAAiB,UAArB,B,C;oOACI,cDqX2B,+CA4C/B,iB;oOC1YvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;mOAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;oOAAJ,IAAI,gBAAiB,UAArB,B,C;wOACI,cDsX2B,+CA4C/B,iB;wOCvYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;uOAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;wOAAJ,IAAI,gBAAiB,UAArB,B,C;4OACI,cDuX2B,+CA4C/B,iB;4OCxYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;2OAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;4OAAJ,IAAI,gBAAiB,UAArB,B,C;gPACI,cDwX2B,+CA4C/B,iB;gPCzYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;+OAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;gPAAJ,IAAI,gBAAiB,UAArB,B,C;oPACI,cDyX2B,+CA4C/B,iB;oPC1YvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;mPAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;oPAAJ,IAAI,gBAAiB,UAArB,B,C;wPACI,cD0X2B,+CA4C/B,iB;wPCvYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;uPAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;wPAAJ,IAAI,gBAAiB,UAArB,B,C;4PACI,cD2X2B,+CA4C/B,iB;4PCxYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;2PAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;4PAAJ,IAAI,gBAAiB,UAArB,B,C;gQACI,cD4X2B,+CA4C/B,iB;gQCzYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;+PAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;gQAAJ,IAAI,gBAAiB,UAArB,B,C;oQACI,cD6X2B,+CA4C/B,iB;oQC1YvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;mQAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;oQAAJ,IAAI,gBAAiB,UAArB,B,C;wQACI,cD8X2B,+CA4C/B,iB;wQCvYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;uQAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;wQAAJ,IAAI,gBAAiB,UAArB,B,C;4QACI,cD+X2B,+CA4C/B,iB;4QCxYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;2QAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;4QAAJ,IAAI,gBAAiB,UAArB,B,C;gRACI,cDgY2B,+CA4C/B,iB;gRCzYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;+QAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;gRAAJ,IAAI,gBAAiB,UAArB,B,C;oRACI,cDiY2B,+CA4C/B,iB;oRC1YvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;mRAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;oRAAJ,IAAI,gBAAiB,UAArB,B,C;wRACI,cDkY2B,+CA4C/B,iB;wRCvYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;uRAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;wRAAJ,IAAI,gBAAiB,UAArB,B,C;4RACI,cDmY2B,+CA4C/B,iB;4RCxYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;2RAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;4RAAJ,IAAI,gBAAiB,UAArB,B,C;gSACI,cDoY2B,+CA4C/B,iB;gSCzYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;+RAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;gSAAJ,IAAI,gBAAiB,UAArB,B,C;oSACI,cDqY2B,+CA4C/B,iB;oSC1YvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;mSAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;oSAAJ,IAAI,gBAAiB,UAArB,B,C;wSACI,cDsY2B,+CA4C/B,iB;wSCvYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;uSAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;wSAAJ,IAAI,gBAAiB,UAArB,B,C;4SACI,cDuY2B,+CA4C/B,iB;4SCxYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;2SAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;4SAAJ,IAAI,gBAAiB,UAArB,B,C;gTACI,cDwY2B,+CA4C/B,iB;gTCzYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;+SAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;gTAAJ,IAAI,gBAAiB,UAArB,B,C;oTACI,cDyY2B,+CA4C/B,iB;oTC1YvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;mTAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;oTAAJ,IAAI,gBAAiB,UAArB,B,C;wTACI,cD0Y2B,+CA4C/B,iB;wTCvYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;uTAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;wTAAJ,IAAI,gBAAiB,UAArB,B,C;4TACI,cD2Y2B,+CA4C/B,iB;4TCxYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;2TAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;4TAAJ,IAAI,gBAAiB,UAArB,B,C;gUACI,cD4Y2B,+CA4C/B,iB;gUCzYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;+TAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;gUAAJ,IAAI,gBAAiB,UAArB,B,C;oUACI,cD6Y2B,+CA4C/B,iB;oUC1YvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;mUAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;oUAAJ,IAAI,gBAAiB,UAArB,B,C;wUACI,cD8Y2B,+CA4C/B,iB;wUCvYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;uUAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;wUAAJ,IAAI,gBAAiB,UAArB,B,C;4UACI,cD+Y2B,+CA4C/B,iB;4UCxYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;2UAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;4UAAJ,IAAI,gBAAiB,UAArB,B,C;gVACI,cDgZ2B,+CA4C/B,iB;gVCzYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;+UAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;gVAAJ,IAAI,gBAAiB,UAArB,B,C;oVACI,cDiZ2B,+CA4C/B,iB;oVC1YvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;mVAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;oVAAJ,IAAI,gBAAiB,UAArB,B,C;wVACI,cDkZ2B,+CA4C/B,iB;wVCvYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;uVAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;wVAAJ,IAAI,gBAAiB,UAArB,B,C;4VACI,cDmZ2B,+CA4C/B,iB;4VCxYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;2VAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;4VAAJ,IAAI,gBAAiB,UAArB,B,C;gWACI,cDoZ2B,+CA4C/B,iB;gWCzYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;+VAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;gWAAJ,IAAI,gBAAiB,UAArB,B,C;oWACI,cDqZ2B,+CA4C/B,iB;oWC1YvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;mWAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;oWAAJ,IAAI,gBAAiB,UAArB,B,C;wWACI,cDsZ2B,+CA4C/B,iB;wWCvYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;uWAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;wWAAJ,IAAI,gBAAiB,UAArB,B,C;4WACI,cDuZ2B,+CA4C/B,iB;4WCxYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;2WAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;4WAAJ,IAAI,gBAAiB,UAArB,B,C;gXACI,cDwZ2B,+CA4C/B,iB;gXCzYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;+WAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;gXAAJ,IAAI,gBAAiB,UAArB,B,C;oXACI,cDyZ2B,+CA4C/B,iB;oXC1YvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;mXAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;oXAAJ,IAAI,gBAAiB,UAArB,B,C;wXACI,cD0Z2B,+CA4C/B,iB;wXCvYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;uXAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;wXAAJ,IAAI,gBAAiB,UAArB,B,C;4XACI,cD2Z2B,+CA4C/B,iB;4XCxYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;2XAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;4XAAJ,IAAI,gBAAiB,UAArB,B,C;gYACI,cD4Z2B,+CA4C/B,iB;gYCzYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;+XAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;gYAAJ,IAAI,gBAAiB,UAArB,B,C;oYACI,cD6Z2B,+CA4C/B,iB;oYC1YvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;mYAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;oYAAJ,IAAI,gBAAiB,UAArB,B,C;wYACI,cD8Z2B,+CA4C/B,iB;wYCvYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;uYAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;wYAAJ,IAAI,gBAAiB,UAArB,B,C;4YACI,cD+Z2B,+CA4C/B,iB;4YCxYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;2YAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;4YAAJ,IAAI,gBAAiB,UAArB,B,C;gZACI,cDga2B,+CA4C/B,iB;gZCzYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;+YAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;gZAAJ,IAAI,gBAAiB,UAArB,B,C;oZACI,cDia2B,+CA4C/B,iB;oZC1YvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;mZAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;oZAAJ,IAAI,gBAAiB,UAArB,B,C;wZACI,cDka2B,+CA4C/B,iB;wZCvYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;uZAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;wZAAJ,IAAI,gBAAiB,UAArB,B,C;4ZACI,cDma2B,+CA4C/B,iB;4ZCxYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;2ZAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;4ZAAJ,IAAI,gBAAiB,UAArB,B,C;gaACI,cDoa2B,+CA4C/B,iB;gaCzYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;+ZAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;gaAAJ,IAAI,gBAAiB,UAArB,B,C;oaACI,cDqa2B,+CA4C/B,iB;oaC1YvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;maFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;oaAAJ,IAAI,gBAAiB,UAArB,B,C;waACI,cDsa2B,+CA4C/B,iB;waCvYvE,MAAM,gCAAyB,OAAQ,WAAjC,C,C;uaAFV,IAAI,EDyXQ,mBAAY,CAAZ,CAAY,UAAZ,EAAuB,CAAvB,C;waAAJ,IAAI,gBAAiB,UAArB,B,

mBAAQ,IAAR,C;UACA,M;;MAIR,W;K;;IAKgC,0D;MAAC,wC;MAAuC,kC;K;IACrC,0E;MAAA,oD;MACnC,g
BAAmB,I;MACnB,iBAAqB,E;K;oEAErB,Y;MACI,gBAAe,mBAAa,EAAjB,GAAqB,+CAArB,GAA4C,2CAAa,4
BAAb,C;MACvD,iBAAgB,qBAAJ,GAAsB,CAAtB,GAA6B,C;K;8DAG7C,Y;MAMiB,Q;MALb,IAAI,iBAAY,CA
AhB,C;QACI,iB;MAEJ,IAAI,mBAAa,CAAjB,C;QACI,MAAM,6B;MACV,aAAa,8D;MAEb,iBAAY,E;MACZ,O
AAO,M;K;iEAGX,Y;MACI,IAAI,iBAAY,CAAhB,C;QACI,iB;MACJ,OAAO,mBAAa,C;K;;2CAxB5B,Y;MAAuC
,yD;K;;IA6B3C,kC;MAWI,OAAW,iDAAJ,GAAwC,SAAxC,GAAkD,4BAAwB,SAAxB,C;K;IAelB,uD;MAAA,q
B;QAAE,6B;O;K;IAX7C,wC;MAWI,OAA2D,cAApD,sBAAkB,YAAlB,EAAgC,qCAAhC,CAAoD,C;K;IAqBrC,i
D;MAAA,mB;QAAE,mB;O;K;IAlB5B,gD;MAeI,OAAI,YAAJ,GACI,2BADJ,GAGI,sBAAkB,+BAAlB,EAA4B,Y
AA5B,C;K;IAER,wD;MAcI,6BAAkB,YAAlB,EAAgC,YAAhC,C;K;ILxpBJ,oB;MAAA,wB;MACI,8C;K;gCAEA,
iB;MAA4C,oCAAmB,KAAM,U;K;kCACrE,Y;MAA+B,Q;K;kCAC/B,Y;MAAkC,W;K;gFAEX,Y;MAAQ,Q;K;iC
AC/B,Y;MAAkC,W;K;wCAClC,mB;MAAmD,Y;K;6CACnD,oB;MAAmE,OAAA,QAAS,U;K;kCAE5E,Y;MAA6
C,kC;K;uCAE7C,Y;MAAiC,6B;K;;;IAdrC,gC;MAAA,+B;QAAA,c;OAAA,wB;K;IAkBA,oB;MAIoC,6B;K;IAEp
C,2B;MAMmD,OAAI,QAAS,OAAT,GAAgB,CAApB,GAAgC,MAAT,QAAS,CAAhC,GAA6C,U;K;iFAEhG,yB;
MAAA,mD;MAAA,mB;QAKwC,iB;O;KALxC,C;6FAOA,yB;MAAA,uE;MAAA,mB;QAQsD,2B;O;KARtD,C;IA
UA,kC;MAKiE,OAAS,aAAT,QAAS,EAAa,qBAAc,YAAY,QAAS,OAArB,CAAd,CAAb,C;K;uFAE1E,yB;MAA
A,2D;MAAA,mB;QAGgD,qB;O;KAHhD,C;IAKA,+B;MAC2D,OAAS,aAAT,QAAS,EAAa,eAAQ,YAAY,QAAS,
OAArB,CAAR,CAAb,C;K;2FAEpE,yB;MAAA,uE;MAAA,mB;QAMwD,2B;O;KANxD,C;IAQA,iC;MAKmE,OA
AS,aAAT,QAAS,EAAa,qBAAc,YAAY,QAAS,OAArB,CAAd,CAAb,C;K;IAE5E,+B;MAMyD,OAAI,eAAJ,GAA
qB,MAAM,OAAN,CAArB,GAAyC,U;K;IAElG,kC;MAQI,OAAgB,gBAAT,QAAS,EAAgB,sBAAhB,C;K;sFAGp
B,yB;MavBA,uE;MbuBA,gC;QanB8B,gBAAnB,oB;QbqCiB,aS/CxB,W;QT+CA,OS9CO,SISwC,Q;O;KbmBnD,C;
wFA0BA,yB;Ma1CA,wE;Mb0CA,0C;QatCsC,gBAA3B,mBb4DiB,Qa5DjB,C;Qb4D2B,aS7ElC,W;QT6EA,OS5E
O,SIgBgD,Q;O;KbsC3D,C;sFA+BA,yB;MAAA,mD;MAAA,4B;QAEkD,uCAAQ,U;O;KAF1D,C;IAIA,wC;MAAg
D,QAAM,cAAN,C;aAC5C,C;UAD4C,OACvC,U;aACL,C;UAF4C,OAEvC,MAAM,oBAAW,OAAjB,C;gBAFuC,
OAGpC,S;;K;IKnKZ,oD;MAQuF,wC;K;IARvF,8CASI,Y;MAAuC,8B;K;IAT3C,gF;IyKLA,yC;MxK4BI,IAAI,Ew
K3BI,OAAO,CAAP,IAAY,OAAO,CxK2BvB,CAAJ,C;QACI,cwK3BI,aAAJ,GACI,yEADJ,GAGI,8C;QxKyBJ,M
AAM,gCAAyB,OAAQ,WAAjC,C;Q;IwKnBM,mI;MAAA,mB;QAAE,wBAAiB,gCAAjB,EAA6B,YAA7B,EAAm
C,YAAnC,EAAyC,sBAAzC,EAAyD,mBAAzD,C;O;K;IAFtB,gF;MACI,oBAAoB,IAApB,EAA0B,IAA1B,C;MAC
A,oCAAgB,6EAAhB,C;K;IAKyB,yL;MAAA,wC;MAAA,6B;MAAA,yB;MAAA,wC;MAAA,wC;MAAA,gD;MA
AA,sD;MAAA,4D;MAAA,wB;MAAA,0B;MAAA,uB;MAAA,0B;MAAA,wB;MAAA,qB;MAAA,4B;MAAA,kC;
K;;;;2DAAA,Y;;;;;cACrB,4BAAiC,eAAL,uBAAK,EAAa,IAAb,C;+BACvB,0BAAO,uBAAP,I;cACV,IAAI,kBAA
O,CAAX,C;oCACiB,iBAAa,qBAAb,C;kCACF,C;gBACD,6C;gBAAV,iB;;;sCAaa,gBAAc,qBAAd,C;gBACH,+C;
gBAAV,gB;;;;;;;cAAA,KAAU,2BAAV,C;gBAAAA,gB;;;cAAU,kC;cACN,mBAAO,WAAI,GAAJ,C;cACP,IAAI,m
BAAO,SAAX,C;gBACI,IAAI,mBAAO,KAAP,GAAc,uBAAlB,C;kBAA0B,sBAAS,mBAAO,kBAAuB,uBAAvB,
C;kBAA8B,gB;;;kBAAxE,gB;;;;gBADJ,gB;;;;;cAGI,gB;8BAAA,iCAAU,8BAAJ,GAAiB,mBAAjB,GAA6B,iBAA
U,mBAAV,CAAnC,O;kBAAAA,2C;uBAAAA,yB;cAAA,Q;;cACA,mBAAO,qBAAY,uBAAZ,C;cAJX,gB;;;cAFJ,gB;
;;cASA,IAAI,iCAAJ,C;gBACI,gB;;;gBADJ,iB;;;;;cACI,IAAO,mBAAO,KAAd,IAAqB,uBAArB,C;gBAAAA,gB;;;c
ACI,gB;8BAAA,iCAAU,8BAAJ,GAAiB,mBAAjB,GAA6B,iBAAU,mBAAV,CAAnC,O;kBAAAA,2C;uBAAAA,yB;
cAAA,Q;;cACA,mBAAO,qBAAY,uBAAZ,C;cAFX,gB;;;cAIA,IhL4K4C,CgL5KxC,mBhL4KyC,UgL5K7C,C;gB
AAyB,iB;gCAAA,iCAAM,mBAAN,O;oBAAAA,2C;yBAAAA,yB;gBAAAA,Q;;gBAAzB,iB;;;;;cAjCR,W;;cA4BI,iB;;;
cA1BJ,iB;;;cAGI,KAAU,yBAAV,C;gBAAAA,iB;;;6BAAU,sB;cACN,IAAI,kBAAO,CAAX,C;gBAAgB,oCAAQ,C
AAR,I;gBAAW,iB;;;gBAA3B,iB;;;;;cACA,iBAAO,WAAI,YAAJ,C;cACP,IAAI,iBAAO,KAAP,KAAe,uBAAnB,C
;gBACI,iB;gCAAA,iCAAM,iBAAN,O;oBAAAA,2C;yBAAAA,yB;gBAAAA,Q;;gBADJ,iB;;;;;cAEI,IAAI,8BAAJ,C;gB
AAiB,iBAAO,Q;;gBAAa,oBAAS,iBAAU,uBAAV,C;cAC9C,kBAAO,c;cAHX,iB;;;cAHJ,iB;;;cASA,IhL+LgD,Cg
L/L5C,iBhL+L6C,UgL/LjD,C;gBACI,IAAI,qCAAkB,iBAAO,KAAP,KAAe,uBAArC,C;kBAA2C,iB;kCAAA,iCA
AM,iBAAN,O;sBAAAA,2C;2BAAAA,yB;kBAAAA,Q;;kBAA3C,iB;;;;gBADJ,iB;;;;;cAdJ,W;;cAcI,iB;;;cAZJ,iB;;;cAk
CJ,W;;;;;;;;;;;;;K;IArCyB,sI;MAAAA,yD;uBAAAA,6K;YAAAA,S;iBAAAA,Q;;iBAAAA,uB;O;K;IAF7B,6E;MACI,IAAI,
CAAC,QAAS,UAAd,C;QAAyB,OAAO,2B;MAChC,OAAO,WAAkB,0EAAlB,C;K;IAwCwB,6B;MAA8B,uB;MA
A7B,kB;MAChC,mBAA6B,C;MAC7B,eAAyB,C;K;2CAEzB,8B;MACI,+DAAkB,SAAlB,EAA6B,OAA7B,EAAs

C,WAAK,KAA3C,C;MACA,mBAAiB,S;MACjB,eAAa,UAAU,SAAV,I;K;0CAGjB,iB;MACI,+DAAkB,KAAlB,E
AAyB,YAAzB,C;MAEA,OAAO,wBAAK,mBAAY,KAAZ,IAAL,C;K;qFAGY,Y;MAAQ,mB;K;;IASR,wC;MAAq
D,uB;MAApD,sB;MxKrDxB,IAAI,EwKuDQ,cAAc,CxKvDtB,CAAJ,C;QACI,cwKsD2B,wE;QxKrD3B,MAAM,g
CAAyB,OAAQ,WAAjC,C;OAFV,IAAI,EwKwDQ,cAAc,aAAO,OxKxD7B,CAAJ,C;QACI,gBwKuDqC,wFAA+E
,aAAO,O;QxKtD3H,MAAM,gCAAyB,SAAQ,WAAjC,C;OwK2DV,kBAAuB,aAAO,O;MAC9B,oBAA8B,C;MAE
9B,sBAAyB,U;K;kFAAzB,Y;MAAA,0B;K,OAAA,gB;MAAA,0B;K;uCAGA,iB;MAGW,Q;MAFP,+DAAkB,KA
AlB,EAAyB,SAAzB,C;MAEA,OAAO,sBAmGmC,CAnG5B,iBAmG6B,GAnGV,KAmGU,IAAD,IAAa,eAnGhD,4
D;K;kCAGX,Y;MAAe,qBAAQ,e;K;IAEgB,4D;MAAA,sC;MAAS,2B;MAC5C,eAAoB,oB;MACpB,eAAoB,4B;K;
8DAEpB,Y;MAKgB,Q;MAJZ,IAAI,iBAAS,CAAb,C;QACI,W;;QAGA,mBAAQ,sCAAO,YAAP,4DAAR,C;QAC
A,eAoFkC,CApF1B,YAoF2B,GApFb,CAoFa,IAAD,IAAa,+B;QAnF/C,mC;;K;;oCAXZ,Y;MAAuC,kD;K;2CAgBv
C,iB;MAGiE,UAQ1C,MAR0C,EAe1C,MAf0C,EAqBtD,M;MAtBP,aACQ,KAAM,OAAN,GAAa,IAAK,KAAtB,G
AAkC,UAAN,KAAM,EAAO,IAAK,KAAZ,CAAlC,GAAyD,kD;MAE7D,WAAW,IAAK,K;MAEhB,WAAW,C;M
ACX,UAAU,iB;MAEV,OAAO,OAAO,IAAP,IAAe,MAAM,eAA5B,C;QACI,OAAO,IAAP,IAAe,wBAAO,GAAP,
gE;QACf,mB;QACA,iB;;MAGJ,MAAM,C;MACN,OAAO,OAAO,IAAd,C;QACI,OAAO,IAAP,IAAe,wBAAO,G
AAP,gE;QACf,mB;QACA,iB;;MAEJ,IAAI,MAAO,OAAP,GAAc,IAAK,KAAvB,C;QAA6B,OAAO,IAAK,KAAZ,
IAAoB,I;MAEjD,OAAO,uD;K;mCAGX,Y;MACI,OAAO,qBAAQ,gBAAa,SAAb,OAAR,C;K;4CAGX,uB;MAKI,
kBAAoD,eAAjC,mBAAY,mBAAa,CAAzB,IAA8B,CAA9B,IAAiC,EAAa,WAAb,C;MACpD,gBAAoB,sBAAc,C
AAlB,GAA4B,UAAP,aAAO,EAAO,WAAP,CAA5B,GAAqD,qBAAQ,gBAAa,WAAb,OAAR,C;MACrE,OAAO,e
AAW,SAAX,EAAsB,SAAtB,C;K;qCAGX,mB;MAII,IAAI,aAAJ,C;QACI,MAAM,6BAAsB,qBAAtB,C;OAGV,c
A6B0C,CA7BnC,iBA6BoC,GA7BjB,SA6BiB,IAAD,IAAa,eA7BvD,IAAmC,O;MACnC,6B;K;+CAGJ,a;MxKhJA,
IAAI,EwKoJQ,KAAK,CxKpJb,CAAJ,C;QACI,cwKmJkB,wC;QxKlJlB,MAAM,gCAAyB,OAAQ,WAAjC,C;OAF
V,IAAI,EwKqJQ,KAAK,SxKrJb,CAAJ,C;QACI,gBwKoJqB,wEAA8D,S;QxKnJnF,MAAM,gCAAyB,SAAQ,WA
AjC,C;OwKqJN,IAAI,IAAI,CAAR,C;QACI,YAAY,iB;QACZ,UAgBsC,CAhB5B,KAgB6B,GAhBf,CAgBe,IAAD,
IAAa,e;QAdnD,IAAI,QAAQ,GAAZ,C;UACW,OAAP,aAAO,EAAK,IAAL,EAAW,KAAX,EAAkB,eAAlB,C;UA
CA,OAAP,aAAO,EAAK,IAAL,EAAW,CAAX,EAAc,GAAd,C;;UAEA,OAAP,aAAO,EAAK,IAAL,EAAW,KAA
X,EAAkB,GAAlB,C;;QAGX,oBAAa,G;QACb,wBAAQ,CAAR,I;Q;qCAKR,wB;MAC8C,QAAC,YAAO,CAAP,I
AAD,IAAa,e;K;;IA9G3D,0C;MAAA,oD;MAA6B,uBAAK,gBAAmB,QAAnB,OAAL,EAAmC,CAAnC,C;MAA7
B,Y;K;ICvFJ,0C;MAII,QAAQ,I;MACR,QAAQ,K;MACR,YAAY,kBAAM,CAAC,OAAO,KAAP,IAAD,IAAiB,C
AAjB,IAAN,C;MACZ,OAAO,KAAK,CAAZ,C;QACI,OrL+B4E,0BqL/BrE,kBAAM,CAAN,CrL0Q2B,KAAL,GA
AiB,GA3O8B,EqL/B1D,KrL0QgB,KAAL,GAAiB,GA3O8B,CqL/BrE,IAAP,C;UACI,a;;QACJ,OrL6B4E,0BqL7Br
E,kBAAM,CAAN,CrLwQ2B,KAAL,GAAiB,GA3O8B,EqL7B1D,KrLwQgB,KAAL,GAAiB,GA3O8B,CqL7BrE,I
AAP,C;UACI,a;;QACJ,IAAI,KAAK,CAAT,C;UACI,UAAU,kBAAM,CAAN,C;UACV,kBAAM,CAAN,EAAW,k
BAAM,CAAN,CAAX,C;UACA,kBAAM,CAAN,EAAW,GAAX,C;UACA,a;UACA,a;;MAGR,OAAO,C;K;IAGX,
uC;MAGI,YAAY,aAAU,KAAV,EAAAiB,IAAjB,EAAuB,KAAvB,C;MACZ,IAAI,QAAO,QAAQ,CAAR,IAAP,CA
AJ,C;QACI,UAAU,KAAV,EAAAiB,IAAjB,EAAuB,QAAQ,CAAR,IAAvB,C;MACJ,IAAI,QAAQ,KAAZ,C;QACI,
UAAU,KAAV,EAAAiB,KAAjB,EAAwB,KAAxB,C;K;IAGR,0C;MAII,QAAQ,I;MACR,QAAQ,K;MACR,YAAY,k
BAAM,CAAC,OAAO,KAAP,IAAD,IAAiB,CAAjB,IAAN,C;MACZ,OAAO,KAAK,CAAZ,C;QACI,OnLM6E,0B
mLNtE,kBAAM,CAAN,CnL0O2B,KAAL,GAAiB,KApO+B,EmLN3D,KnL0OgB,KAAL,GAAiB,KApO+B,CmL
NtE,IAAP,C;UACI,a;;QACJ,OnLI6E,0BmLJtE,kBAAM,CAAN,CnLwO2B,KAAL,GAAiB,KApO+B,EmLJ3D,Kn
LwOgB,KAAL,GAAiB,KApO+B,CmLJtE,IAAP,C;UACI,a;;QACJ,IAAI,KAAK,CAAT,C;UACI,UAAU,kBAAM,
CAAN,C;UACV,kBAAM,CAAN,EAAW,kBAAM,CAAN,CAAX,C;UACA,kBAAM,CAAN,EAAW,GAAX,C;UA
CA,a;UACA,a;;MAGR,OAAO,C;K;IAGX,yC;MAGI,YAAY,aAAU,KAAV,EAAAiB,IAAjB,EAAuB,KAAvB,C;M
ACZ,IAAI,QAAO,QAAQ,CAAR,IAAP,CAAJ,C;QACI,YAAU,KAAV,EAAAiB,IAAjB,EAAuB,QAAQ,CAAR,IAA
vB,C;MACJ,IAAI,QAAQ,KAAZ,C;QACI,YAAU,KAAV,EAAAiB,KAAjB,EAAwB,KAAxB,C;K;IAGR,0C;MAII,
QAAQ,I;MACR,QAAQ,K;MACR,YAAY,kBAAM,CAAC,OAAO,KAAP,IAAD,IAAiB,CAAjB,IAAN,C;MACZ,
OAAO,KAAK,CAAZ,C;QACI,OpLnB8D,YoLmBvD,kBAAM,CAAN,CpLnBwE,KAAjB,EoLmB5C,KpLnByE,K
AA7B,CoLmBvD,IAAP,C;UACI,a;;QACJ,OpLrB8D,YoLqBvD,kBAAM,CAAN,CpLrBwE,KAAjB,EoLqB5C,Kp
LrByE,KAA7B,CoLqBvD,IAAP,C;UACI,a;;QACJ,IAAI,KAAK,CAAT,C;UACI,UAAU,kBAAM,CAAN,C;UAC

V,kBAAM,CAAN,EAAW,kBAAM,CAAN,CAAX,C;UACA,kBAAM,CAAN,EAAW,GAAX,C;UACA,a;UACA,a;
;MAGR,OAAO,C;K;IAGX,yC;MAGI,YAAY,aAAU,KAAV,EAAiB,IAAjB,EAAuB,KAAvB,C;MACZ,IAAI,QAA
O,QAAQ,CAAR,IAAP,CAAJ,C;QACI,YAAU,KAAV,EAAiB,IAAjB,EAAuB,QAAQ,CAAR,IAAvB,C;MACJ,IA
AI,QAAQ,KAAZ,C;QACI,YAAU,KAAV,EAAiB,KAAjB,EAAwB,KAAxB,C;K;IAGR,0C;MAII,QAAQ,I;MACR
,QAAQ,K;MACR,YAAY,kBAAM,CAAC,OAAO,KAAP,IAAD,IAAiB,CAAjB,IAAN,C;MACZ,OAAO,KAAK,C
AAZ,C;QACI,OpK5C+D,aoK4CxD,kBAAM,CAAN,CpK5C0E,KAAlB,EoK4C7C,KpK5C2E,KAA9B,CoK4CxD,
IAAP,C;UACI,a;;QACJ,OpK9C+D,aoK8CxD,kBAAM,CAAN,CpK9C0E,KAAlB,EoK8C7C,KpK9C2E,KAA9B,C
oK8CxD,IAAP,C;UACI,a;;QACJ,IAAI,KAAK,CAAT,C;UACI,UAAU,kBAAM,CAAN,C;UACV,kBAAM,CAAN,
EAAW,kBAAM,CAAN,CAAX,C;UACA,kBAAM,CAAN,EAAW,GAAX,C;UACA,a;UACA,a;;MAGR,OAAO,C;
K;IAGX,yC;MAGI,YAAY,aAAU,KAAV,EAAiB,IAAjB,EAAuB,KAAvB,C;MACZ,IAAI,QAAO,QAAQ,CAAR,I
AAP,CAAJ,C;QACI,YAAU,KAAV,EAAiB,IAAjB,EAAuB,QAAQ,CAAR,IAAvB,C;MACJ,IAAI,QAAQ,KAAZ,
C;QACI,YAAU,KAAV,EAAiB,KAAjB,EAAwB,KAAxB,C;K;IAKR,gD;MAI6E,UAAU,KAAV,EAAiB,SAAjB,E
AA4B,UAAU,CAAV,IAA5B,C;K;IAC7E,gD;MAC6E,YAAU,KAAV,EAAiB,SAAjB,EAA4B,UAAU,CAAV,IAA
5B,C;K;IAC7E,gD;MAC6E,YAAU,KAAV,EAAiB,SAAjB,EAA4B,UAAU,CAAV,IAA5B,C;K;IAC7E,gD;MAC6
E,YAAU,KAAV,EAAiB,SAAjB,EAA4B,UAAU,CAAV,IAA5B,C;K;IvK9I7E,0C;MF0BI,IAAI,EEjBI,SAAU,OA
AV,GAAiB,CFiBrB,CAAJ,C;QACI,cAda,qB;QAeb,MAAM,gCAAyB,OAAQ,WAAjC,C;OElBV,OAAO,oBAAoB
,CAApB,EAAuB,CAAvB,EAA0B,SAA1B,C;K;IAGX,8C;MACe,Q;MAAX,wBAAW,SAAX,gB;QAAW,SAAA,S
AAX,M;QACI,SAAS,GAAG,CAAH,C;QACT,SAAS,GAAG,CAAH,C;QACT,WAAW,cAAc,EAAd,EAAkB,EAA
lB,C;QACX,IAAI,SAAQ,CAAZ,C;UAAe,OAAO,I;;MAE1B,OAAO,C;K;sGAGX,yB;MAAA,8D;MAAA,iC;QASI
,OAAO,cAAc,SAAS,CAAT,CAAd,EAA2B,SAAS,CAAT,CAA3B,C;O;KATX,C;sGAYA,sC;MASI,OAAO,UAA
W,SAAQ,SAAS,CAAT,CAAR,EAAqB,SAAS,CAAT,CAArB,C;K;IAatB,6B;MAWY,Q;MALR,IAAI,MAAM,CA
AV,C;QAAa,OAAO,C;MACpB,IAAI,SAAJ,C;QAAe,OAAO,E;MACtB,IAAI,SAAJ,C;QAAe,OAAO,C;MAGtB,O
AA8B,iBAAtB,mDAAsB,EAAU,CAAV,C;K;IAaZ,6C;MAAA,uB;QAAU,2BAAoB,CAApB,EAAuB,CAAvB,EA
A0B,iBAA1B,C;O;K;IAVhC,8B;MF7CI,IAAI,EEsDI,SAAU,OAAV,GAAiB,CFtDrB,CAAJ,C;QACI,cAda,qB;QA
eb,MAAM,gCAAyB,OAAQ,WAAjC,C;OEqDV,OAAO,eAAW,2BAAX,C;K;0FAIX,yB;MAAA,sC;MAAA,oC;M
AAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DgB,CA5DhB,C
AAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MAPf,2B;QAOI,sBAAW,0BAAX,C;O;KAPJ,C;0FASA,
yB;MAAA,oC;MAQe,gE;QAAA,uB;UAAU,iBAAsB,kB;UAAtB,eAAkC,gB;UAAlC,OA1Dd,UAAW,SAAQ,SA0
DW,CA1DX,CAAR,EAAqB,SA0DC,CA1DD,CAArB,C;S;O;MAkDtB,uC;QAQI,sBAAW,sCAAX,C;O;KARJ,C;4
GAUA,yB;MAAA,sC;MAAA,oC;MAAA,iCAOe,yB;QAxFf,8D;eAwFe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,
OA/Ed,cAAc,SA+EgB,CA/EhB,CAAd,EAA2B,SA+EM,CA/EN,CAA3B,C;W;S;OA+EI,C;MAPf,2B;QAOI,sBAA
W,oCAAX,C;O;KAPJ,C;8GASA,yB;MAAA,oC;MAUe,0E;QAAA,uB;UAAU,iBAAsB,kB;UAAtB,eAAkC,gB;U
AAlC,OA/Ed,UAAW,SAAQ,SA+EW,CA/EX,CAAR,EAAqB,SA+EC,CA/ED,CAArB,C;S;O;MAqEtB,uC;QAUI,s
BAAW,gDAAX,C;O;KAVJ,C;kFAYA,yB;MAAA,sC;MAAA,oC;MAAA,oBAQe,yB;QA9Gf,8D;eA8Ge,yC;UAA
A,uB;YACP,sBAAsB,WAAY,SAAQ,CAAR,EAAW,CAAX,C;YAClC,Q;YAAA,IAAI,oBAAmB,CAAvB,C;cAA
A,OAA0B,e;;cAAqB,eAAsB,gB;cAArE,OAvGG,cAAc,SAuG8C,CAvG9C,CAAd,EAA2B,SAuGoC,CAvGpC,CA
A3B,C;;YAsGH,W;W;S;OADO,C;MARf,sC;QAQI,sBAAW,kCAAX,C;O;KARJ,C;oFAaA,yB;MAAA,oC;MAQe,
0E;QAAA,uB;UACP,sBAAsB,WAAY,SAAQ,CAAR,EAAW,CAAX,C;UAClC,Q;UAAA,IAAI,oBAAmB,CAAvB
,C;YAAA,OAA0B,e;;YAAqB,iBAAsB,kB;YAAtB,eAAkC,gB;YAAjF,OAxGG,UAAW,SAAQ,SAwGyC,CAxGz
C,CAAR,EAAqB,SAwG+B,CAxG/B,CAArB,C;;UAuGd,W;S;O;MATR,kD;QAQI,sBAAW,8CAAX,C;O;KARJ,C;
sGAaA,yB;MAAA,sC;MAAA,oC;MAAA,8BAQe,yB;QAxIf,8D;eAwIe,mD;UAAA,uB;YACP,sBAAsB,qBAAsB,
SAAQ,CAAR,EAAW,CAAX,C;YAC5C,Q;YAAA,IAAI,oBAAmB,CAAvB,C;cAAA,OAA0B,e;;cAAqB,eAAsB,g
B;cAArE,OAjIG,cAAc,SAiI8C,CAjI9C,CAAd,EAA2B,SAiIoC,CAjIpC,CAA3B,C;;YAgIH,W;W;S;OADO,C;MA
Rf,sC;QAQI,sBAAW,4CAAX,C;O;KARJ,C;wGAaA,yB;MAAA,oC;MAQe,8F;QAAA,uB;UACP,sBAAsB,qBAAs
B,SAAQ,CAAR,EAAW,CAAX,C;UAC5C,Q;UAAA,IAAI,oBAAmB,CAAvB,C;YAAA,OAA0B,e;;YAAqB,iBAA
sB,kB;YAAtB,eAAkC,gB;YAAjF,OAlIG,UAAW,SAAQ,SAkIyC,CAlIzC,CAAR,EAAqB,SAkI+B,CAlI/B,CAArB
,C;;UAiId,W;S;O;MATR,kD;QAQI,sBAAW,wDAAX,C;O;KARJ,C;kGAcA,yB;MAAA,oC;MAOe,wE;QAAA,uB;
UACP,sBAAsB,mBAAoB,SAAQ,CAAR,EAAW,CAAX,C;UAA1C,OACI,oBAAmB,CAAvB,GAA0B,eAA1B,GA

A+C,mBAAW,CAAX,EAAc,CAAd,C;S;O;MATvD,wC;QAOI,sBAAW,4CAAX,C;O;KAPJ,C;IAmBe,oD;MAAA,
uB;QACP,sBAAsB,SAAU,SAAQ,CAAR,EAAW,CAAX,C;QAAhC,OACI,oBAAmB,CAAvB,GAA0B,eAA1B,G
AA+C,kBAAW,SAAQ,CAAR,EAAW,CAAX,C,O;K;IATlE,uC;MAOI,sBAAW,kCAAX,C;K;IAYc,wE;MAAA,u
B;QACV,sBAAsB,mBAAoB,SAAQ,CAAR,EAAW,CAAX,C;QAA1C,OACI,oBAAmB,CAAvB,GAA0B,eAA1B,
GAA+C,kBAAW,SAAQ,CAAR,EAAW,CAAX,C;O;K;IATlE,+C;MAOI,sBAAc,4CAAd,C;K;IAaW,+C;MAAA,u
B;QAEH,UAAM,CAAN,C;UADJ,OACe,C;aACX,c;UAFJ,OAEiB,E;aACb,c;UAHJ,OAGiB,C;;UAHjB,OAIY,kB
AAW,SAAQ,CAAR,EAAW,CAAX,C;O;K;IAZ/B,gC;MAOI,sBAAW,6BAAX,C;K;4FASJ,yB;MAAA,4D;MAAA
,wD;MAAA,mB;QAOqE,kBAAW,cAAX,C;O;KAPrE,C;IAgBe,8C;MAAA,uB;QAEH,UAAM,CAAN,C;UADJ,O
ACe,C;aACX,c;UAFJ,OAEiB,C;aACb,c;UAHJ,OAGiB,E;;UAHjB,OAIY,kBAAW,SAAQ,CAAR,EAAW,CAAX,
C;O;K;IAZ/B,+B;MAOI,sBAAW,4BAAX,C;K;0FASJ,yB;MAAA,4D;MAAA,sD;MAAA,mB;QAOoE,iBAAU,cA
AV,C;O;KAPpE,C;IASA,wB;MAK4F,Q;MAA7B,OAA6B,4F;K;IAE5F,wB;MAK4F,Q;MAA7B,OAA6B,4F;K;IA
E5F,gC;MAM+D,IAEJ,IAFI,EAGJ,M;MAFvD,kBAD2D,SAC3D,sB;QADqD,OAC5B,SAAK,W;WAC9B,WAF2D
,SAE3D,wC;QAFqD,OAEE,4F;WACvD,WAH2D,SAG3D,wC;QAHqD,OAGE,gG;;QAHF,OAI7C,uBAAmB,SAA
nB,C;K;IAIuB,wC;MAAC,4B;K;2CAChC,gB;MAAwC,OAAA,eAAW,SAAQ,CAAR,EAAW,CAAX,C;K;4CACn
D,Y;MACgC,sB;K;;IAGpC,kC;MAAA,sC;K;+CACI,gB;MAAoE,OAAE,iBAAF,CAAE,EAAU,CAAV,C;K;gDAC
tE,Y;MAC8C,2C;K;;;IAHlD,8C;MAAA,6C;QAAA,4B;OAAA,sC;K;IAMA,kC;MAAA,sC;K;+CACI,gB;MAAoE,
OAAE,iBAAF,CAAE,EAAU,CAAV,C;K;gDACtE,Y;MAC8C,2C;K;;;IAHlD,8C;MAAA,6C;QAAA,4B;OAAA,sC
;K;8EwKjTA,4B;MAUI,OAAK,iBAAL,SAAK,EAAU,KAAV,C;K;ICTT,iC;K;;;;oDA2DI,0C;MAiB+D,oB;QAAA
,2C;aAjB/D,kG;K;;IAoBJ,uC;MAAA,e;MAAA,iB;MAAA,uB;K;IAAA,qC;MAAA,wC;O;MASI,4E;MAMA,8E;M
AOA,4E;MAOA,kE;K;;IApBA,mD;MAAA,2B;MAAA,2C;K;;IAMA,oD;MAAA,2B;MAAA,4C;K;;IAOA,mD;M
AAA,2B;MAAA,2C;K;;IAOA,8C;MAAA,2B;MAAA,sC;K;;IA7BJ,iC;MAAA,+K;K;;IAAA,sC;MAAA,a;aAAA,c;
UAAA,gD;aAAA,e;UAAA,iD;aAAA,c;UAAA,gD;aAAA,S;UAAA,2C;gBAAA,oE;;K;;oFAqCA,mB;K;;;;;;;;;;;;;;;;
;;I5HiBiD,gD;MAAA,oB;QACzC,WAAW,sBAAmB,YAAF,CAAE,CAAnB,C;QACX,cAAM,IAAN,C;QADA,OA
EA,IAAK,a;O;K;;;;IAtHb,+B;K;;iFAUA,yB;MAAA,4B;MAAA,mC;QAMI,6BDgDQ,WChDkB,KDgDlB,CChDR,
C;O;KANJ,C;2GAQA,yB;MAAA,4B;MDgDQ,kD;MChDR,uC;QAOI,6BDgDQ,WAAO,cChDW,SDgDX,CAAP,C
ChDR,C;O;KAPJ,C;+FAUA,yB;MAAA,kC;MAAA,mD;MAAA,yE;QASI,sC;QAAA,4C;O;MATJ,iGAWY,Y;QA
AQ,2B;OAXpB,E;MAAA,0DAaQ,kB;QACI,wBAAW,MAAX,C;O;MAdZ,sF;MAAA,sC;QASI,0D;O;KATJ,C;IAi
BA,gD;MAaI,4BAA0D,YAAzC,wCAA6B,UAA7B,CAAyC,CAA1D,EAAyE,yBAAzE,C;K;IAEJ,4D;MAcI,4BAA
oE,YAAnD,0CAA6B,QAA7B,EAAuC,UAAvC,CAAmD,CAApE,EAAmF,yBAAnF,C;K;IAEJ,+C;MAU6C,YAAz
C,wCAA6B,UAA7B,CAAyC,CAtEzC,oBDgDQ,WCsBsD,kBDtBtD,CChDR,C;K;IAyEJ,2D;MAWuD,YAAnD,0C
AA6B,QAA7B,EAAuC,UAAvC,CAAmD,CApFnD,oBDgDQ,WCoCgE,kBDpChE,CChDR,C;K;IAuFJ,+C;MAYI,
OAA6C,8BAAtC,c;K;8EAZX,yB;MAAA,oE;MAAA,6E;MAYiD,gD;QAAA,oB;UACzC,WAAW,sBAAmB,YAA
F,CAAE,CAAnB,C;UACX,cAAM,IAAN,C;UADA,OAEA,IAAK,a;S;O;MAfb,sC;QAYW,mBAAsC,8BAAtC,6B;
QAAP,OAAO,kD;O;KAZX,C;qGA0BI,yB;MAAA,2D;MAAA,mB;QACI,MAAM,6BAAoB,0BAApB,C;O;KADV
,C;;M6HzIA,yC;;IAAA,uC;MAAA,2C;K;;;IAAA,mD;MAAA,kD;QAAA,iC;OAAA,2C;K;+EAkBA,wB;K;oDAaA
,e;MAK2C,IAAI,IAAJ,EAGK,M;MAL5C,IAAI,+CAAJ,C;QAEI,OAAW,GAAI,kBAAS,IAAK,IAAd,CAAR,GAA
4B,cAAI,OAAJ,GAAI,iBAAQ,IAAR,CAAJ,yCAA5B,GAAyD,I;OAGpE,OAAW,8CAA4B,GAAhC,GAAqC,8EA
ArC,GAAoD,I;K;yDAI/D,e;MAGI,IAAI,+CAAJ,C;QACI,OAAW,GAAI,kBAAS,IAAK,IAAd,CAAJ,IAA0B,GAA
I,iBAAQ,IAAR,CAAJ,QAA9B,GAAyD,mCAAzD,GAAoF,I;OAE/F,OAAW,8CAA4B,GAAhC,GAAqC,mCAArC
,GAAgE,I;K;;;;ICtChD,oD;MACf,cAAc,GAAI,kBAAS,OAAQ,IAAjB,C;MAClB,IAAI,YAAY,mCAAhB,C;QAD
A,OACuC,O;;QAEnC,kBAAkB,oBAAQ,yCAAR,C;QAClB,IAAI,mBAAJ,C;UAJJ,OAI6B,oBAAgB,OAAhB,EA
AyB,OAAzB,C;;UACrB,WAAW,OAAQ,kBAAS,yCAAT,C;UAL3B,OAMY,SAAS,mCAAb,GAAoC,oBAAgB,O
AAhB,EAAyB,WAAzB,CAApC,GACI,oBAAgB,oBAAgB,IAAhB,EAAsB,OAAtB,CAAhB,EAAgD,WAAhD,C;;;
K;8CAdxB,mB;MAKI,OAAI,YAAY,mCAAhB,GAAuC,IAAvC,GACI,OAAQ,cAAK,IAAL,EAAW,4BAAX,C;K;
;;;;;qDAiCZ,e;MAEyB,Q;MADrB,OACI,OAAA,IAAK,IAAL,EAAY,GAAZ,CAAJ,GAAqB,0EAArB,GAAoC,I;K;
sDAExC,8B;MACI,iBAAU,OAAV,EAAmB,IAAnB,C;K;0DAEJ,e;MACI,OAAI,OAAA,IAAK,IAAL,EAAY,GAA
Z,CAAJ,GAAqB,mCAArB,GAAgD,I;K;;;IC1DP,8C;MAAC,wB;K;kFAAA,Y;MAAA,yB;K;;IAiCe,wD;MAEjE,k
C;MAEA,4BAAqC,mDAAJ,GAAkD,OAAQ,qBAA1D,GAA0E,O;K;4DAE3G,mB;MAA6C,+BAAS,OAAT,C;K;6

DAC7C,e;MAA8C,eAAQ,IAAR,IAAgB,8BAAe,G;K;;IAGjF,+C;MAW2C,IAAI,IAAJ,EAGV,M;MAL7B,IAAI,+
CAAJ,C;QAEI,OAAW,GAAI,kBAAS,SAAK,IAAd,CAAR,GAA4B,cAAI,OAAJ,GAAI,iBAAQ,SAAR,CAAJ,yC
AA5B,GAAyD,I;OAGpE,OAAW,SAAK,IAAL,KAAa,GAAjB,GAAsB,mFAAtB,GAAqC,I;K;IAGhD,6C;MAUI,I
AAI,+CAAJ,C;QACI,OAAW,GAAI,kBAAS,SAAK,IAAd,CAAJ,IAA0B,GAAI,iBAAQ,SAAR,CAAJ,QAA9B,GA
AyD,mCAAzD,GAAoF,S;OAE/F,OAAW,SAAK,IAAL,KAAa,GAAjB,GAAsB,mCAAtB,GAAiD,S;K;IAG5D,iC;
MAAA,qC;MAKI,4B;K;oDACA,Y;MAAiC,0C;K;kDAEjC,e;MAAyD,W;K;mDACzD,8B;MAA4E,c;K;mDAC5E,
mB;MAAwE,c;K;uDACxE,e;MAA8D,W;K;+CAC9D,Y;MAAsC,Q;K;+CACtC,Y;MAAyC,8B;K;;;IAb7C,6C;MA
AA,4C;QAAA,2B;OAAA,qC;K;IAqB8B,wC;MAC1B,kB;MACA,wB;K;4CAGA,e;MAGQ,Q;MAFJ,UAAU,I;MA
CV,OAAO,IAAP,C;QACI,YAAA,GAAI,UAAJ,aAAY,GAAZ,W;UAAwB,W;SACxB,WAAW,GAAI,O;QACf,IA
AI,oCAAJ,C;UACI,MAAM,I;;UAEN,OAAO,iBAAK,GAAL,C;;;K;6CAKnB,8B;MACI,iBAAU,WAAK,cAAK,O
AAL,EAAc,SAAd,CAAf,EAAyC,cAAzC,C;K;iDAEJ,e;UAGW,I;MAFP,+BAAQ,GAAR,U;QAAoB,OAAO,W;O
AC3B,cAAc,WAAK,kBAAS,GAAT,C;MAEf,gBAAY,WAAZ,C;QAAoB,W;WACpB,gBAAY,mCAAZ,C;QAAq
C,qB;;QAC7B,2BAAgB,OAAhB,EAAyB,cAAzB,C;MAHZ,W;K;uCAOJ,Y;MAIc,IAAI,IAAJ,Q;MAHV,UAAU,I;
MACV,WAAW,C;MACX,OAAO,IAAP,C;QACU,uBAAI,OAAJ,GAAI,OAAJ,gC;QAAA,mB;UAAgC,OAAO,I;S
AA7C,MAAM,M;QACN,mB;;K;2CAIR,mB;MACI,+BAAI,OAAQ,IAAZ,GAAoB,OAApB,C;K;8CAEJ,mB;MAQ
4B,Q;MAPxB,UAAU,O;MACV,OAAO,IAAP,C;QACI,IAAI,CAAC,gBAAS,GAAI,UAAb,CAAL,C;UAA4B,OA
AO,K;QACnC,WAAW,GAAI,O;QACf,IAAI,oCAAJ,C;UACI,MAAM,I;;UAEN,OAAO,gBAAS,0EAAT,C;;;K;uC
AKnB,iB;MACI,gBAAS,KAAT,KAAkB,yCAA4B,KAAM,SAAN,KAAgB,aAA5C,IAAsD,KAAM,eAAY,IAAZ,C
AA9E,C;K;yCAEJ,Y;MAA+B,OAAK,SAAL,WAAK,CAAL,GAA0B,SAAR,cAAQ,CAA1B,I;K;IAGZ,uD;MACX
,OAAI,G3JyHoC,YAAU,C2JzHlD,GAAmB,OAAQ,WAA3B,GAA6C,GAAF,UAAQ,O;K;yCAF3D,Y;MACI,aAA
M,kBAAK,EAAL,EAAS,+BAAT,CAAN,GAEI,G;K;IAMO,8E;MAAA,6B;QAAyB,Q;QAAT,iBAAS,sBAAT,EA
AS,8BAAT,UAAoB,O;QAAQ,W;O;K;+CAJ3D,Y;MAOsB,Q;MANlB,QAAQ,a;MACR,eAAe,gBAA+B,CAA/B,O
;MACf,gBAAY,CAAZ,C;MACA,kBAAK,kBAAL,EAAW,oDAAX,C;M9KtFJ,IAAI,E8KuFM,YAAS,C9KvFf,CA
AJ,C;QACI,cAdW,e;QAeX,MAAM,6BAAsB,OAAQ,WAA9B,C;O8KuFN,OAAO,+BAAW,qDAAX,C;K;IAGa,8
C;MACpB,kD;MADqB,wB;K;IACrB,gD;MAAA,oD;MACI,4B;K;;;IADJ,4D;MAAA,2D;QAAA,0C;OAAA,oD;K;
yDAIA,Y;MAA0C,gBAAT,a;M5Lm9YrB,Q;MADhB,kB4Ll9YmD,mC;M5Lm9YnD,wBAAgB,SAAhB,gB;QAAg
B,cAAA,SAAhB,M;QAAsB,cAAwB,yBAAa,OAAb,C;;M4Ln9YT,O5Lo9Y9B,W;K;;;I6LtoZX,oE;MA4BI,MAA
M,wBAAoB,sEAApB,C;K;8GA5BV,yB;MAAA,2D;MAAA,sC;QA4BI,MAAM,6BAAoB,sEAApB,C;O;KA5BV,
C;IA0CoC,mC;MAAQ,4D;K;IAE5C,4C;MAAA,e;MAAA,iB;MAAA,uB;K;IAAA,0C;MAAA,6C;O;MAK0C,oG;
MAAqB,gF;MAAW,4E;K;;IAAhC,+D;MAAA,gC;MAAA,uD;K;;IAAqB,qD;MAAA,gC;MAAA,6C;K;;IAAW,m
D;MAAA,gC;MAAA,2C;K;;IAL1E,sC;MAAA,sJ;K;;IAAA,2C;MAAA,a;aAAA,qB;UAAA,4D;aAAA,W;UAAA,k
D;aAAA,S;UAAA,gD;gBAAA,qF;;K;;6ECnDA,yB;MAAA,0B;MAAA,mC;QAGsD,OAAiC,OAA3B,SAAL,GAA
uB,KAAS,C;O;KAHvF,C;2EAKA,yB;MAAA,0B;MAAA,mC;QAGqD,OAAgC,OAA1B,SAAL,GAAsB,KAAS,C;
O;KAHrF,C;6EAKA,yB;MAAA,0B;MAAA,mC;QAGsD,OAAiC,OAA3B,SAAL,GAAuB,KAAS,C;O;KAHvF,C;6
EAKA,yB;MAAA,0B;MAAA,4B;QAGqC,OAAqB,OAAP,CAAR,SAAe,C;O;KAH1D,C;+EAMA,yB;MAAA,4B;
MAAA,mC;QAGyD,OAAiC,QAA3B,SAAL,GAAuB,KAAS,C;O;KAH1F,C;6EAKA,yB;MAAA,4B;MAAA,mC;
QAGwD,OAAgC,QAA1B,SAAL,GAAsB,KAAS,C;O;KAHxF,C;+EAKA,yB;MAAA,4B;MAAA,mC;QAGyD,OA
AiC,QAA3B,SAAL,GAAuB,KAAS,C;O;KAH1F,C;+EAKA,yB;MAAA,4B;MAAA,4B;QAGuC,OAAqB,QAAP,C
AAR,SAAe,C;O;KAH5D,C;ICpCA,qC;K;;ICAA,mB;K;;IAOA,iB;K;;IAOA,2C;K;;IAOA,wB;K;;IAQA,0B;K;;IA
OA,sB;K;;IAOA,4B;K;;IAOA,6C;K;;IA+BuC,wE;MAEnC,uB;QAAA,UAAAsB,E;MACtB,qB;QAAA,8B;MACA,2
B;QAAA,qE;MACA,yB;QAAA,YAAAqB,E;MAJrB,sB;MACA,sB;MACA,kB;MACA,8B;MACA,0B;K;;IAGJ,iD;
MAAA,e;MAAA,iB;MAAA,uB;K;IAAA,+C;MAAA,kD;O;MAKI,wG;MACA,wG;MACA,8F;K;;IAFA,iE;MAAA
,qC;MAAA,yD;K;;IACA,iE;MAAA,qC;MAAA,yD;K;;IACA,4D;MAAA,qC;MAAA,oD;K;;IAPJ,2C;MAAA,6K;K
;;IAAA,gD;MAAA,a;aAAA,kB;UAAA,8D;aAAA,kB;UAAA,8D;aAAA,a;UAAA,yD;gBAAA,6E;;K;;IAUA,wB;K
;;ICjGA,qB;MAAA,yB;K;0CAII,Y;MAO6D,uB;K;2HAE7D,yB;MAAA,+D;MAAA,kC;MAAA,0F;MAAA,6F;MA
AA,4E;QAUI,wC;QAAS,2C;O;MAVb,mEAWQ,wC;QAA6E,sBAAS,QAAT,EAAmB,QAAnB,EAA6B,QAA7B,C
;O;MAXrF,oG;MAAA,yC;QAUI,wDAA+B,YAA/B,C;O;KAVJ,C;uHAcA,yB;MAAA,+D;MAAA,kC;MAAA,wF;
MAAA,yF;MAAA,0E;QAcI,wC;QAAS,2C;O;MAdb,kEAeQ,wC;QAAuF,6BAAS,QAAT,EAAmB,QAAnB,EAA6

B,QAA7B,C;O;MAf/F,kG;MAAA,yC;QAcI,sDAA+B,YAA/B,C;O;KAdJ,C;;;IA3BJ,iC;MAAA,gC;QAAA,e;OAA
A,yB;K;IAgDiC,sB;MAC7B,eAAwB,I;K;4CAExB,6B;MACW,Q;MAAA,mB;MAAA,iB;QAAS,MAAM,6BAAsB
,cAAY,QAAS,aAArB,uCAAtB,C;OAAtB,OAAO,I;K;4CAGX,oC;MACI,eAAa,K;K;;;;;kDC9CjB,6B;;K;;;;;;;;iEA+
CA,6B;;K;;ICrDuC,0C;MACvC,uBAAoB,Y;K;wDAEpB,wC;MAM6F,W;K;uDAE7F,wC;K;oDAMA,6B;MACI,O
AAO,oB;K;oDAGX,oC;MACI,eAAe,IAAK,gB;MACpB,IAAI,CAAC,0BAAa,QAAb,EAAuB,QAAvB,EAAiC,KA
AjC,CAAL,C;QACI,M;OAEJ,uBAAa,K;MACb,yBAAY,QAAZ,EAAsB,QAAtB,EAAgC,KAAhC,C;K;;4EC9BR,
wC;MAqBI,OAAO,e;K;4EAGX,+C;MAuBI,cAAI,KAAJ,C;K;4EAIJ,wC;MAmBI,OAAO,cAAI,OAAJ,C;K;4EAG
X,+C;MAqBI,cAAI,OAAJ,EAAa,KAAb,C;K;IC/FJ,kB;MA6PI,4B;K;+BAtOA,Y;MAOiC,6BAAS,EAAT,C;K;uC
AEjC,iB;MAW2C,4BAAQ,CAAR,EAAW,KAAX,C;K;uCAE3C,uB;MAakB,Q;MAHd,iBAAiB,IAAjB,EAAuB,K
AAvB,C;MACA,QAAQ,QAAQ,IAAR,I;MACR,IAAI,IAAI,CAAJ,IAAS,MAAK,WAAlB,C;QACc,IAAI,MAAM,
CAAC,CAAD,IAAN,OAAY,CAAhB,C;UACN,eAAe,SAAS,CAAT,C;UACf,6BAAS,QAAT,C;;UAEA,K;;YAEI,
WAAW,cAAU,KAAK,C;YAC1B,IAAI,OAAO,C;;UACN,gBAAO,CAAP,IAAY,CAAZ,GAAgB,CAAhB,SAAqB,
CAArB,C;UACT,Q;;QATJ,c;QAWA,OAAO,OAAO,GAAP,I;;QAEP,OAAO,IAAP,C;UACI,YAAU,c;UACV,IAA
W,IAAP,qBAAkB,KAAtB,C;YAA6B,OAAO,K;;;K;gCAKhD,Y;MAOmC,OAAU,oBAAV,cAAU,CAAS,WAAI,E
AAJ,CAAnB,yBAA6B,cAA7B,E;K;wCAEnC,iB;MAW8C,iCAAY,KAAZ,C;K;wCAE9C,uB;MAiBkB,Q;MAPd,m
BAAiB,IAAjB,EAAuB,KAAvB,C;MACA,QAAQ,eAAQ,IAAR,C;MACR,IAAI,eAAI,CAAR,C;QACI,O;QACA,I
AAI,aAAO,CAAD,aAAN,GAAY,CAAZ,CAAJ,C;UACI,WAAW,CAAE,Q;UACb,YAAa,qBAAO,EAAP,CAAW,
Q;UAEpB,aAAQ,CAAR,C;YACI,eAAe,SAAS,IAAT,C;YAEf,OAAmB,oBAAnB,sBAAS,QAAT,CAAmB,CAAn
B,iB;iBAEJ,cAAS,CAAT,C;YAEI,OAAU,oBAAV,cAAU,CAAV,iB;;YAEA,iBAAe,SAAS,KAAT,C;YACf,OAA
mB,oBAAnB,sBAAS,UAAT,CAAmB,CAAS,WAAI,EAAJ,CAA5B,KAAiD,oBAAV,cAAU,CAAV,iBAAvC,C;;U
AXR,U;;UAeA,K;;YAEI,WAAW,eAAW,oBAAK,CAAL,C;YACtB,IAAI,YAAO,CAAP,C;;UACC,sBAAO,CAAP
,MAAY,+BAAI,CAAJ,EAAZ,eAAqB,CAArB,C;UACT,MAAM,C;;QAEV,OAAO,SAAO,GAAP,C;;QAEP,OAA
O,IAAP,C;UACI,YAAU,e;UACV,IAAW,IAAP,0CAAkB,KAAlB,CAAJ,C;YAA6B,OAAO,K;;;K;mCAKhD,Y;M
AKyC,6BAAS,CAAT,MAAe,C;K;kCAExD,Y;MAKuC,uBAAgB,sBAAS,EAAT,CAAhB,EAA8B,sBAAS,EAAT,
CAA9B,C;K;0CAEvC,iB;MASoD,+BAAW,GAAX,EAAgB,KAAhB,C;K;0CAEpD,uB;MAcY,Q;MAFR,mBAAiB
,IAAjB,EAAuB,KAAvB,C;MACA,WAAW,QAAQ,I;MACX,IAAS,WAAL,IAAK,CAAL,IAA0B,SAAL,IAAK,CA
A1B,IAA8C,SAAN,KAAM,CAAlD,C;QACJ,SAAS,qBAAgB,QAAQ,CAAR,GAAY,OAAO,CAAnC,C;QACT,cA
AO,EAAP,GAAY,E;;QAEZ,cAAO,oBAAe,I;;MAJ1B,Y;MAMA,OAAW,KAAK,KAAT,GAAsB,SAAN,KAAM,C
AAtB,GAAsC,C;K;iCAGjD,Y;MAKqC,6BAAS,EAAT,IAA0B,Q;K;IAWK,oF;MAAA,mB;QAAE,uBAAa,iBAAb,
sBAAqC,eAArC,+BAAqE,aAAM,OAA3E,M;O;K;iDATtE,qC;MvLjLA,IAAI,EuL0LqB,CAAb,8BAAgB,KAAM,
OvL1L9B,GuL0LiD,CAAX,0BAAc,KAAM,OvL1L1D,GuL0LsC,KvL1LtC,CAAJ,C;QACI,cuLyLgE,kDvLzLlD,E
;QACd,MAAM,gCAAyB,OAAQ,WAAjC,C;OAFV,IAAI,EuL2LQ,aAAa,OvL3LrB,CAAJ,C;QACI,gBuL0LgC,mF
;QvLzLhC,MAAM,gCAAyB,SAAQ,WAAjC,C;OuL2LN,YAAY,CAAC,UAAU,SAAV,IAAD,IAAwB,CAAxB,I;
MAEZ,mBAAe,SAAf,C;MpLzEJ,iBAAc,CAAd,UoL0EW,KpL1EX,U;QoL2EQ,QAAQ,c;QACR,MAAM,UAAN,I
AAoB,OAAF,CAAE,C;QACpB,MAAM,aAAW,CAAX,IAAN,IAAgC,OAAV,CAAE,KAAK,CAAG,C;QAChC,M
AAM,aAAW,CAAX,IAAN,IAAiC,OAAX,CAAE,KAAK,EAAI,C;QACjC,MAAM,aAAW,CAAX,IAAN,IAAiC,O
AAX,CAAE,KAAK,EAAI,C;QACjC,0BAAY,CAAZ,I;;MAGJ,gBAAgB,UAAU,UAAV,I;MAChB,SAAS,sBAAS,
YAAY,CAAZ,IAAT,C;MACT,aAAU,CAAV,MAAkB,SAAlB,M;QACI,MAAM,aAAW,CAAX,IAAN,IAAqC,OA
Af,EAAG,MAAK,IAAI,CAAJ,IAAL,CAAY,C;;MAGzC,OAAO,K;K;yCACX,uD;MAvB4C,yB;QAAA,YAAiB,C;
MAAG,uB;QAAA,UAAe,KAAM,O;aARrF,0H;K;yCAiCA,iB;MAOyD,8BAAU,KAAV,EAAiB,CAAjB,EAAoB,
KAAM,OAA1B,C;K;yCAEzD,gB;MAKkD,8BAAU,cAAU,IAAV,CAAV,C;K;IAGlD,0B;MAAA,8B;MAO2B,iB;
MACvB,uBAAoC,uB;K;IAEpC,qC;MAAA,yC;MACI,4B;K;wDAEA,Y;MAAiC,mC;K;;;IAHrC,iD;MAAA,gD;Q
AAA,+B;OAAA,yC;K;8CAMA,Y;MAAkC,8C;K;gDAElC,oB;MAA4C,OAAA,oBAAc,kBAAS,QAAT,C;K;uCAC
1D,Y;MAA8B,OAAA,oBAAc,U;K;+CAC5C,iB;MAAwC,OAAA,oBAAc,iBAAQ,KAAR,C;K;+CACtD,uB;MAA
mD,OAAA,oBAAc,iBAAQ,IAAR,EAAc,KAAd,C;K;wCAEjE,Y;MAAgC,OAAA,oBAAc,W;K;gDAC9C,iB;MAA
2C,OAAA,oBAAc,kBAAS,KAAT,C;K;gDACzD,uB;MAAuD,OAAA,oBAAc,kBAAS,IAAT,EAAe,KAAf,C;K;2C
AErE,Y;MAAsC,OAAA,oBAAc,c;K;0CAEpD,Y;MAAoC,OAAA,oBAAc,a;K;kDAClD,iB;MAAiD,OAAA,oBAA
c,oBAAW,KAAX,C;K;kDAC/D,uB;MAA+D,OAAA,oBAAc,oBAAW,IAAX,EAAiB,KAAjB,C;K;yCAE7E,Y;MA

AkC,OAAA,oBAAc,Y;K;iDAEhD,iB;MAAsD,OAAA,oBAAc,mBAAU,KAAV,C;K;iDACpE,gB;MAA+C,OAAA
,oBAAc,mBAAU,IAAV,C;K;yDAC7D,qC;MACI,OAAA,oBAAc,mBAAU,KAAV,EAAiB,SAAjB,EAA4B,OAA5
B,C;K;;;IAtCtB,sC;MAAA,qC;QAAA,oB;OAAA,8B;K;;IA0CJ,wB;MAauC,yBAAa,IAAb,EAAmB,IAAK,IAAI,E
AA5B,C;K;IAEvC,wB;MAawC,yBAAa,IAAK,QAAlB,EAA2B,IAAK,YAAI,EAAJ,CAAQ,QAAxC,C;K;IAGxC,
mC;MAUI,IAAA,KAAM,UAAN,C;QAAmB,MAAM,gCAAyB,uCAAoC,KAA7D,C;WACzB,IAAA,KAAM,KAA
N,GAAa,UAAb,C;QAF8C,OAEhB,0BAAQ,KAAM,MAAd,EAAqB,KAAM,KAAN,GAAa,CAAb,IAArB,C;WAC
9B,IAAA,KAAM,MAAN,GAAc,WAAd,C;QAH8C,OAGf,0BAAQ,KAAM,MAAN,GAAc,CAAd,IAAR,EAAyB,
KAAM,KAA/B,IAAuC,CAAvC,I;;QAHe,OAItC,mB;K;IAGZ,oC;MAUI,IAAA,KAAM,UAAN,C;QAAmB,MAA
M,gCAAyB,uCAAoC,KAA7D,C;WACzB,IAAA,KAAM,KAAN,+C;QAFiD,OAElB,2BAAS,KAAM,MAAf,EAAs
B,KAAM,KAAN,yBAAa,CAAb,EAAtB,C;WAC/B,IAAA,KAAM,MAAN,+C;QAHiD,OAGjB,2BAAS,KAAM,M
AAN,8BAAc,CAAd,EAAT,EAA0B,KAAM,KAAhC,0BAAwC,CAAxC,E;;QAHiB,OAIzC,oB;K;IAOZ,yB;MAAy
C,YjFrTkB,MAAO,OiFqTpB,KjFrToB,CiFqTzB,I;K;IAEzC,4C;MAEI,OAAA,SAAK,KAAK,EAAL,GAAU,QAA
f,GAAyC,CAAX,CAAC,QAAD,IAAW,KAAI,E;K;IAEjD,uC;MvLtVI,IAAI,EuLsVuD,QAAQ,IvLtV/D,CAAJ,C;
QACI,cuLqVuE,+B;QvLpVvE,MAAM,gCAAyB,OAAQ,WAAjC,C;Q;IuLqVd,yC;MvLvVI,IAAI,EuLuVyD,sBA
AQ,IAAR,KvLvVzD,CAAJ,C;QACI,cuLsVyE,+B;QvLrVzE,MAAM,gCAAyB,OAAQ,WAAjC,C;Q;IuLsVd,yC;M
vLxVI,IAAI,EuLwV6D,QAAQ,IvLxVrE,CAAJ,C;QACI,cuLuV6E,+B;QvLtV7E,MAAM,gCAAyB,OAAQ,WAAj
C,C;Q;IuLwVd,yC;MAAyD,oCAA0B,IAA1B,qBAAiC,KAAjC,kB;K;ICrXzD,6B;MAOqC,OnMmYE,SmMnYF,m
BnMmYE,C;K;ImMjYvC,sC;MASgD,6BAAS,WAAT,EAAa,KAAb,C;K;IAEhD,4C;MAUI,qBAAqB,IAArB,EAA
2B,KAA3B,C;MAEA,iBAAiB,InMqQgB,KmMrQhB,GAAiB,W;MAClC,kBAAkB,KnMoQe,KmMpQf,GAAkB,W
;MAEpC,mBAAmB,0BAAQ,UAAR,EAAoB,WAApB,IAAqC,W;MACxD,OnMsWmC,SmMtW5B,YnMsW4B,C;
K;ImMnWvC,sC;MAWI,IAAA,KAAM,UAAN,C;QAAmB,MAAM,gCAAyB,uCAAoC,KAA7D,C;;QACzB,InMG
kE,YmMHlE,KAAM,KnMG6E,KAAjB,EmMHrD,4BAAK,UnMG6E,KAA7B,CmMHlE,K;UAFiD,OAElB,sBAA
S,KAAM,MAAf,EnMqBsB,SmMrBA,KAAM,KnMqBI,KAAK,GAAW,CmMrBb,WnMqBa,MAAX,IAAf,CmMrB
tB,C;;UAC/B,InMEkE,YmMFlE,KAAM,MnME6E,KAAjB,EmMFpD,4BAAK,UnME4E,KAA7B,CmMFlE,K;YA
HiD,OnMuBI,SmMpBrB,sBnMiCsB,SmMjCb,KAAM,MnMiCiB,KAAK,GAAY,CmMjC1B,WnMiC0B,MAAZ,IA
Af,CmMjCtB,EAA2B,KAAM,KAAjC,CnMoB+B,KAAK,GAAW,CmMpBN,WnMoBM,MAAX,IAAf,C;;YmMvB
J,OAIzC,mB;;;K;IAGZ,8B;MAOuC,OnL0VG,UmL1VH,oBnL0VG,C;K;ImLxV1C,uC;MASmD,8BAAU,2BAAV,
EAAe,KAAf,C;K;IAEnD,6C;MAUI,sBAAsB,IAAtB,EAA4B,KAA5B,C;MAEA,iBAAiB,InLwNkB,KmLxNlB,8B;
MACjB,kBAAkB,KnLuNiB,KmLvNjB,8B;MAElB,mBAAmB,2BAAS,UAAT,EAAqB,WAArB,+B;MACnB,OnL
6TsC,UmL7T/B,YnL6T+B,C;K;ImL1T1C,uC;MAWI,IAAA,KAAM,UAAN,C;QAAmB,MAAM,gCAAyB,uCAAo
C,KAA7D,C;;QACzB,InL7CmE,amL6CnE,KAAM,KnL7C+E,KAAlB,EmL6CtD,6BAAM,UnL7C8E,KAA9B,Cm
L6CnE,K;UAFoD,OAEpB,uBAAU,KAAM,MAAhB,EnLhCuB,UmLgCA,KAAM,KnLhCK,KAAK,KAAW,ChBs
Q7C,UAAW,oBAAL,CmMtOyB,WnMsOzB,MAAK,CAAL,iBAAN,CgBtQ6C,MAAX,CAAhB,CmLgCvB,C;;UA
ChC,InL9CmE,amL8CnE,KAAM,MnL9C+E,KAAlB,EmL8CrD,6BAAM,UnL9C6E,KAA9B,CmL8CnE,K;YAHo
D,OnL9BG,UmLiCtB,uBnLpBuB,UmLoBb,KAAM,MnLpBkB,KAAK,UAAY,ChByP/C,UAAW,oBAAL,CmMrO
c,WnMqOd,MAAK,CAAL,iBAAN,CgBzP+C,MAAZ,CAAhB,CmLoBvB,EAA4B,KAAM,KAAlC,CnLjCiC,KAA
K,KAAW,ChBsQ7C,UAAW,oBAAL,CmMrOgC,WnMqOhC,MAAK,CAAL,iBAAN,CgBtQ6C,MAAX,CAAhB,C
;;YmL8BH,OAI5C,oB;;;K;IAGZ,sC;MAQI,4BAAU,KhK4+FH,QgK5+FP,C;MACA,OAAO,K;K;IAGX,uC;MAKs
D,OhK2iG3C,egK3iG2C,4BAAU,IAAV,ChK2iG3C,C;K;IgKziGX,4D;MAOgD,yB;QAAA,YAAiB,C;MAAG,uB;
QAAA,UAAe,KAAM,K;MACrF,4BAAU,KhKy9FH,QgKz9FP,EAA+B,SAA/B,EAA0C,OAA1C,C;MACA,OAA
O,K;K;IAIX,2C;MxLrHI,IAAI,EX2B8D,YmM0FD,KnM1FkB,KAAjB,EmM0FO,InM1FsB,KAA7B,CmM0FD,Ix
LrH7D,CAAJ,C;QACI,cwLoH6E,+B;QxLnH7E,MAAM,gCAAyB,OAAQ,WAAjC,C;Q;IwLoHd,4C;MxLtHI,IAAI
,EKmC+D,amLmFC,KnLnFiB,KAAlB,EmLmFS,InLnFqB,KAA9B,CmLmFC,IxLtHhE,CAAJ,C;QACI,cwLqHgF,
+B;QxLpHhF,MAAM,gCAAyB,OAAQ,WAAjC,C;Q;IyLpBc,6C;MAsCxB,oC;MA/BA,iB;MANA,Y;MACA,Y;M
ACA,Y;MACA,Y;MACA,Y;MACA,sB;MzLYA,IAAI,EyLLQ,CAAC,WAAK,QAAL,GAAU,QAAV,GAAe,QAAf
,GAAoB,QAArB,MAA2B,CzLKnC,CAAJ,C;QACI,cyLNwC,wD;QzLOxC,MAAM,gCAAyB,OAAQ,WAAjC,C;O
GoHV,iBAAc,CAAd,UsLxHW,EtLwHX,U;QsLxHiB,c;;K;qCAGjB,Y;MAGI,QAAQ,Q;MACR,IAAI,IAAO,MAA
O,C;MAClB,WAAI,Q;MACJ,WAAI,Q;MACJ,WAAI,Q;MACJ,SAAS,Q;MACT,WAAI,E;MACJ,IAAK,IAAO,KA

AM,CAAd,GAAsB,EAAtB,GAA8B,MAAO,C;MACzC,WAAI,C;MACJ,gCAAU,MAAV,I;MACA,OAAO,IAAI,a
AAJ,I;K;8CAGX,oB;MACI,OAAU,cAAV,cAAU,EAAc,QAAd,C;K;IAEd,kC;MAAA,sC;MACI,4B;K;;;IADJ,8C;
MAAA,6C;QAAA,4B;OAAA,sC;K;;IA7BA,gD;MAAA,sD;MACQ,yBAAK,KAAL,EAAY,KAAZ,EAAmB,CAAn
B,EAAsB,CAAtB,EAA+B,CAAN,KAAzB,EAAuC,SAAU,EAAX,GAAoB,UAAW,CAArE,C;MADR,Y;K;ICbiD,
8C;MACjD,4B;MACA,0C;K;oEADA,Y;MAAA,2B;K;2EACA,Y;MAAA,kC;K;uCAGA,iB;MACI,OAAO,0CAAg
C,kBAAa,KAAM,UAAnB,KAC/B,mBAAS,KAAM,MAAf,KAAwB,0BAAgB,KAAM,aAAtB,CADO,CAAhC,C;
K;yCAIX,Y;MACI,OAAW,cAAJ,GAAe,EAAf,GAAuB,MAAW,SAAN,UAAM,CAAX,QAAqC,SAAb,iBAAa,CA
ArC,I;K;yCAGlC,Y;MAAkC,OAAE,UAAF,qBAAU,iB;K;;IAGhD,kC;MAM6E,2BAAgB,SAAhB,EAAsB,IAAtB,
C;K;;;0DAYzE,iB;MAA2C,qCAAiB,UAAjB,EAAwB,KAAxB,KAAkC,8BAAiB,KAAjB,EAAwB,iBAAxB,C;K;i
DAC7E,Y;MAAkC,QAAC,8BAAiB,UAAjB,EAAwB,iBAAxB,C;K;;IAcR,gD;MAI3B,gBAAqB,K;MACrB,uBAA
4B,Y;K;0FACD,Y;MAAQ,oB;K;iGACD,Y;MAAQ,2B;K;2DAE1C,gB;MAA+D,YAAK,C;K;mDAEpE,iB;MAAg
D,gBAAS,aAAT,IAAmB,SAAS,oB;K;0CAC5E,Y;MAAkC,SAAE,iBAAU,oBAAZ,C;K;yCAElC,iB;MACI,OAA
O,4CAA+B,kBAAa,KAAM,UAAnB,KAC9B,kBAAU,KAAM,SAAhB,IAA0B,yBAAiB,KAAM,gBADnB,CAA/B,
C;K;2CAIX,Y;MACI,OAAW,cAAJ,GAAe,EAAf,GAAuB,MAAY,SAAP,aAAO,CAAZ,QAAuC,SAAd,oBAAc,C
AAvC,I;K;2CAGlC,Y;MAAkC,OAAE,aAAF,qBAAW,oB;K;;IAGjD,oC;MAOqF,6BAAkB,SAAlB,EAAwB,IAAx
B,C;K;IAQvD,+C;MAI1B,gBAAqB,K;MACrB,uBAA4B,Y;K;yFACF,Y;MAAQ,oB;K;gGACD,Y;MAAQ,2B;K;0
DAEzC,gB;MAA6D,YAAK,C;K;kDAElE,iB;MAA+C,gBAAS,aAAT,IAAmB,SAAS,oB;K;yCAC3E,Y;MAAkC,S
AAE,iBAAU,oBAAZ,C;K;wCAElC,iB;MACI,OAAO,2CAA8B,kBAAa,KAAM,UAAnB,KAC7B,kBAAU,KAAM
,SAAhB,IAA0B,yBAAiB,KAAM,gBADpB,CAA9B,C;K;0CAIX,Y;MACI,OAAW,cAAJ,GAAe,EAAf,GAAuB,M
AAY,SAAP,aAAO,CAAZ,QAAuC,SAAd,oBAAc,CAAvC,I;K;0CAGlC,Y;MAAkC,OAAE,aAAF,qBAAW,oB;K;;
IAGjD,oC;MAOkF,4BAAiB,SAAjB,EAAuB,IAAvB,C;K;oFAGlF,8B;MAQI,0BAAmB,2BAAS,OAAT,C;K;IAGv
B,+C;MACI,IAAI,CAAC,UAAL,C;QAAiB,MAAM,gCAAyB,iCAA8B,IAA9B,iBAAzB,C;K;IC5I3B,gC;MAcW,
Q;MADP,IAAI,CAAC,6BAAW,KAAX,CAAL,C;QAAwB,MAAM,uBAAmB,sC/EjBzC,oB+EiByC,CAAnB,C;O
AC9B,OAAO,sD;K;IAMX,oC;MAakC,Q;MAA9B,OAAW,6BAAW,KAAX,CAAJ,GAAuB,sDAAvB,GAAuC,I;K;
;;;;;ICvBhB,yC;MA2B9B,uC;MA1BA,wB;MAIA,gB;M5LQA,IAAI,E4LDS,iBAAY,IAAb,MAAuB,iBAAvB,C5L
CR,CAAJ,C;QACI,c4LDQ,iBAAY,IAAhB,GACI,8CADJ,GAGI,sCAA0B,aAA1B,qC;Q5LDR,MAAM,gCAAyB,
OAAQ,WAAjC,C;Q;yC4LKV,Y;MAAwC,Q;MAAA,oB;MACpC,iB;QAD8B,OACtB,G;WACR,oD;QAF8B,OAE
F,SAAL,SAAK,C;WAC5B,6C;QAH8B,OAGd,iBAAK,SAAL,C;WAChB,8C;QAJ8B,OAIb,kBAAM,SAAN,C;;Q
AJa,mC;K;IAOlC,qC;MAAA,yC;MACI,YAGqC,oBAAgB,IAAhB,EAAsB,IAAtB,C;K;iGAQJ,Y;MAAQ,gB;K;4D
AEzC,gB;MAOI,8DAAqC,IAArC,C;K;gEAEJ,gB;MAMI,uDAA8B,IAA9B,C;K;4DAEJ,gB;MAMI,wDAA+B,IA
A/B,C;K;;;IArCR,iD;MAAA,gD;QAAA,+B;OAAA,yC;K;;2CArCJ,Y;MAWI,oB;K;2CAXJ,Y;MAeI,gB;K;6CAfJ,0
B;MAAA,2BAWI,8CAXJ,EAeI,kCAfJ,C;K;yCAAA,Y;MAAA,c;MAWI,yD;MAIA,qD;MAfJ,a;K;uCAAA,iB;MA
AA,4IAWI,4CAXJ,IAeI,oCAfJ,I;K;ICLA,kC;MAAA,e;MAAA,iB;MAAA,uB;K;IAAA,gC;MAAA,mC;O;MAYI,4
D;MAKA,8C;MAKA,gD;K;;IAVA,2C;MAAA,sB;MAAA,mC;K;;IAKA,oC;MAAA,sB;MAAA,4B;K;;IAKA,qC;
MAAA,sB;MAAA,6B;K;;IAtBJ,4B;MAAA,mG;K;;IAAA,iC;MAAA,a;aAAA,W;UAAA,wC;aAAA,I;UAAA,iC;a
AAA,K;UAAA,kC;gBAAA,6D;;K;;6ECAA,yB;MAAA,4F;MAAA,2B;QAMI,MAAM,mCAA8B,0EAA9B,C;O;K
ANV,C;ICkCA,+D;MAaW,Q;MAAP,OAAO,8CAAO,KAAP,EAAc,UAAd,EAA0B,QAA1B,oC;K;IAGX,kC;MAIi
B,Q;MAAb,wBAAa,KAAb,gB;QAAa,WAAA,KAAb,M;QACI,yBAAO,IAAP,C;;MACJ,OAAO,S;K;mFAGX,qB;
MAGwD,gCAAO,EAAP,C;K;qFAExD,4B;MAG4E,OAAA,yBAAO,KAAP,CALpB,gBAAO,EAAP,C;K;qFAOxD
,4B;MAGmE,OAAA,yBAAO,KAAP,CAVX,gBAAO,EAAP,C;K;IAaxD,wD;MAEQ,sB;QAAqB,yBAAO,UAAU,
OAAV,CAAP,C;WACrB,sD;QAA4B,yBAAO,OAAP,C;WAC5B,2B;QAAmB,yBAAO,kBAAP,C;;QACX,yBAAe,
SAAR,OAAQ,CAAf,C;K;IjL7EhB,+B;MAY6B,kBAAlB,QAAQ,SAAR,EAAc,EAAd,C;MACH,IX0EE,WW1EE,
GAAK,CAAT,C;QAAY,MAAM,gCAAyB,oEAAzB,C;MADtB,OX4EO,W;K;IWvEX,wC;MAgBW,Q;MAAA,qC
AAiB,KAAjB,C;MAAA,iB;QAA2B,MAAM,gCAAyB,8BAAO,SAAP,4CAA+C,KAAxE,C;OAAxC,OAAO,I;K;I
AGX,qC;MAY6B,kBAAlB,QAAQ,SAAR,EAAc,EAAd,C;MAAP,OXmEqB,WWnEa,IAAM,CXmEjC,GAAqB,W
AArB,GAA+B,I;K;IWhE1C,8C;MAgBI,WAAW,KAAX,C;MAC4B,kBAArB,QAAQ,SAAR,EAAc,KAAd,C;MAA
P,OX+CqB,WW/CgB,IAAM,CX+CpC,GAAqB,WAArB,GAA+B,I;K;IW5C1C,gC;MAWI,IAAY,CAAR,8BAAW,
CAAf,C;QACI,OAAO,YAAM,SAAN,C;OAEX,MAAM,gCAAyB,SAAM,SAAN,4BAAzB,C;K;IAGV,yC;MAkB

W,Q;MANP,IAAI,EAAU,CAAV,sBAAa,EAAb,CAAJ,C;QACI,MAAM,gCAAyB,oBAAiB,KAAjB,4CAAzB,C;O
AEV,IAAI,YAAO,CAAP,IAAY,aAAQ,KAAxB,C;QACI,MAAM,gCAAyB,WAAQ,SAAR,mDAAwD,KAAjF,C;
OAEH,IAAI,YAAO,EAAX,C;QACH,mBAAM,SAAN,C;;QAEA,0BAAM,SAAN,IAAa,EAAb,C;;MAHJ,W;K;IA
uFJ,8B;MAWsC,+B;K;0EAEtC,4B;MAM8D,OAAK,oBAAL,SAAK,CAAL,GAAkB,K;K;IAEhF,gD;MAQoC,0B;
QAAA,aAAsB,K;MACtD,IAAI,cAAQ,KAAZ,C;QAAmB,OAAO,I;MAC1B,IAAI,CAAC,UAAL,C;QAAiB,OAA
O,K;MAExB,gBAAqB,cAAL,SAAK,C;MACrB,iBAAuB,cAAN,KAAM,C;MAEhB,yBAAa,U;MAAb,U;QAA2B,
OFrMyB,oBEqMzB,SFrMyB,CAAY,cAfrB,YAAY,CAAZ,CEoNhB,KFrMyB,oBEqMI,UFrMJ,CAAY,cAfrB,YA
AY,CAAZ,C;OEoNlD,W;K;IAGJ,gC;MAGyC,QAAQ,cAAA,sCAAK,cAAL,EAAoB,sCAAK,cAAzB,CAAR,6B;
K;IkL3OzC,6C;MAc6B,4B;QAAA,eAAuB,G;MAChD,wCAAsB,EAAtB,EAA0B,YAA1B,C;K;IAEJ,mE;MAKwC
,yB;QAAA,YAAoB,E;MAAI,4B;QAAA,eAAuB,G;MhMGnF,IAAI,CmBwR+C,CAAC,Q6K1R5C,Y7K0R4C,CnB
xRpD,C;QACI,cgMHiC,wC;QhMIjC,MAAM,gCAAyB,OAAQ,WAAjC,C;OgMHV,cAAY,gB;MAEC,yBAAS,mB
AAS,YAAA,SAAU,OAAV,EAAmB,OAAM,KAAzB,CAAT,I;MAAT,wBAAiD,kBAAkB,SAAlB,C;MA0E9D,gB
AAgB,iBA1ET,OA0ES,C;M1Lg7CT,kBAAoB,gB;MAoSd,gB;MADb,YAAY,C;MACC,O0L9xDN,O1L8xDM,W;
kBAAb,OAAa,cAAb,C;QAAa,sB;QA1RsB,U;QAAA,cA0RT,oBAAmB,cAAnB,EAAmB,sBAAnB,U;Q0L/sDlB,k
B;;YAHA,CAAC,YAAS,CAAT,IAAc,qBAAf,KAA4C,Q1LktDG,I0LltDH,C;UAC5C,a;;UAEA,4B;UA9E+B,uB;;
Y9KgHzB,kC;YAAA,wBZ6qDyC,IY7qDzC,C;YAAA,qB;YAAA,oB;YAAA,oB;YAAd,gE;cACI,I8KjHkD,CAAI,
aAAH,U9KiHrC,YZ4qDqC,IY5qDrC,YAAK,OAAL,E8KjHqC,CAAG,C9KiHtD,C;gBACI,sBAAO,O;gBAAP,wB
;;YAGR,sBAAO,E;;;U8KrHH,iD;UAGI,gCAA2B,EAA3B,C;YAHJ,2BAGqC,I;iBACjC,IAAK,a1LyxD0C,I0LzxD
1C,gBAAyB,uBAAzB,CAAL,C;YAJJ,2B1L6xDmD,IOjmDsB,WmLxLI,0BAAuC,mBAAvC,InLwLJ,C;;YmL5Lz
E,2BAKY,I;;UAyER,iE7LJD,yB6LIC,4B1L+sD+C,I;;QA1RpB,8B;UAA6C,6B;;M0LpgDhF,OAiFK,S1Lo7CE,W0
Lp7CF,EAAO,mBAAc,kBAAd,CAAP,EAA0C,IAA1C,CACA,W;K;IAvET,+B;MAeyC,gCAAc,EAAd,C;K;IAEzC
,6C;MAGgC,yB;QAAA,YAAoB,E;MAM3C,Q;MALL,cAAY,gB;M1LurBL,kBAAS,gB;MA2FA,U;MAAA,S0Lhx
BM,O1LgxBN,W;MAAhB,OAAgB,gBAAhB,C;QAAgB,2B;QAAM,Ia3hB6B,CAAC,Qb2hBhB,Oa3hBgB,Cb2hB
9B,C;UAAwB,WAAY,WAAI,OAAJ,C;;M0L9wBrD,kB1L+wBE,W;MAmrBA,oBAAM,iBAAa,qCAAwB,EAAxB
,CAAb,C;MAuEA,U;MAAA,+B;MAAb,OAAa,gBAAb,C;QAAa,wB;QACT,aAAY,uBAAc,IAAd,E;;M0L5gDhB,s
BAAsB,CAGjB,oB1L0gDE,a0L1gDF,CAHiB,mBAGF,C;MAEP,yBAAS,mBAAS,YAAA,SAAU,OAAV,EAAmB,
OAAM,KAAzB,CAAT,I;MAAT,wBAAiD,kBAAkB,SAAlB,C;MAmC9D,gBAAgB,iBAnCT,OAmCS,C;M1Lg7C
T,oBAAoB,gB;MAoSd,kB;MADb,YAAY,C;MACC,S0LvvDN,O1LuvDM,W;MAAb,OAAa,gBAAb,C;QAAa,0B;
QA1RsB,U;QAAA,cA0RT,oBAAmB,cAAnB,EAAmB,sBAAnB,U;Q0L/sDlB,kB;Q1Lq7C2B,c0Lx7C3B,CAAC,Y
AAS,CAAT,IAAc,qBAAf,KAA4C,Q1LktDG,M0LltDH,C1Lw7CjB,G0Lv7C3B,I1Lu7C2B,G0Lr7C3B,oBAxCmG
,Q1LuvDpD,M0LvvDoD,kBAwCnG,Y7LJD,yB6LIC,4B1L+sD+C,MA1RpB,U;UAA6C,+B;;M0L79ChF,OA0CK,
S1Lo7CE,a0Lp7CF,EAAO,mBAAc,kBAAd,CAAP,EAA0C,IAA1C,CACA,W;K;IAjCI,8C;MAAA,qB;QAEG,IAA
G,QAAH,EAAG,CAAH,C;UAEQ,IAAA,EAAG,OAAH,GAAY,cAAO,OAAnB,C;YAHZ,OAGyC,c;;YAHzC,OAI
oB,E;;UAJpB,OAOY,iBAAS,E;O;K;IAfjC,0C;MAKgC,sB;QAAA,SAAiB,M;MAC7C,OAYK,eAXA,OADL,uBA
CK,EAAI,4BAAJ,CAWA,EAAa,IAAb,C;K;IAET,gC;MAAwC,uB;;Q9KmDtB,gC;QAAA,gC;QAAA,mB;QAAA,
kB;QAAA,kB;QAAd,0D;UACI,I8KpD+C,CAAI,aAAH,U9KoDlC,iCAAK,KAAL,E8KpDkC,CAAG,C9KoDnD,C;
YACI,sBAAO,K;YAAP,wB;;QAGR,sBAAO,E;;;Mf3CA,4B;M6Lb6B,OAA8C,OAAM,EAAV,GAAc,gBAAd,GA
A0B,E;K;IAGpF,wC;MAAkB,W;K;IAC9B,oD;MAAA,uB;QAAkB,wBAAS,I;O;K;IAFvC,mC;MACI,IAAA,M7K
kMgD,YAAU,C6KlM1D,C;QAD4C,OACxB,wB;;QADwB,OAEpC,kC;K;mBAGZ,yB;M1L86CA,+D;MAoSA,wE
;M0LltDA,sF;QAKI,gBAAgB,2B;Q1Lg7CT,kBAAoB,gB;QAoSd,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,c
AAb,C;UAAa,sB;UA1RsB,U;UAAA,cA0RT,oBAAmB,cAAnB,EAAmB,sBAAnB,U;U0L/sDlB,kB;U1Lq7C2B,c0
Lx7C3B,CAAC,YAAS,CAAT,IAAc,qBAAf,KAA4C,Q1LktDG,I0LltDH,C1Lw7CjB,G0Lv7C3B,I1Lu7C2B,G0Lr
7C3B,sC1L+sD+C,I0L/sD/C,a7LJD,yB6LIC,4B1L+sD+C,IA1RpB,U;YAA6C,6B;;Q0Lz7ChF,OAMK,S1Lo7CE,
W0Lp7CF,EAAO,mBAAc,kBAAd,CAAP,EAA0C,IAA1C,CACA,W;O;KAbT,C;6EvEkSA,0B;MAGmE,OAAAA,S
AAK,gBAAO,GAAP,C;K;qFAExE,yB;MAAAA,yD;MAAAA,gC;QAO2B,gBAAhB,oB;QAAsB,atHrU7B,W;QsHqU
A,OtHpUO,SsHoUqC,W;O;KAPhD,C;uFAUA,yB;MAAAA,iE;MAAAA,0C;QAQmC,gBAAxB,mBAAc,QAAd,C;QA
A8B,atHhVrC,W;QsHgVA,OtH/UO,SsH+U6C,W;O;KARxD,C;IAWA,oC;MAIiB,Q;MAAb,wBAAa,KAAb,gB;Q
AAa,WAAA,KAAb,M;QACI,yBAAO,IAAP,C;;MACJ,OAAO,S;K;IAGX,oC;MAIiB,Q;MAAb,wBAAa,KAAb,gB

;QAAa,WAAA,KAAb,M;QACI,yBAAO,IAAP,C;;MACJ,OAAO,S;K;qFAGX,qB;MAG8D,gCAAO,EAAP,C;K;qF
AE9D,4B;MAGkF,OAAA,yBAAO,KAAP,CALpB,gBAAO,EAAP,C;K;qFAO9D,4B;MAG4E,OAAA,yBAAO,KA
AP,CAVd,gBAAO,EAAP,C;K;qFAY9D,4B;MAGyE,OAAA,yBAAO,KAAP,CAfX,gBAAO,EAAP,C;K;qFAiB9D
,4B;MAG8E,OAAA,yBAAO,KAAP,CApBhB,gBAAO,EAAP,C;K;qFAsB9D,4B;MAGyE,OAAA,yBAAO,KAAP,
CAzBX,gBAAO,EAAP,C;K;qFA2B9D,4B;MAG4E,OAAA,yBAAO,KAAP,CA9Bd,gBAAO,EAAP,C;K;I9H/a9D,
iC;MAK0C,iCAAqB,EAArB,C;K;IAE1C,0C;MAQmB,Q;MAAA,qBAAL,SAAK,EAAY,KAAZ,C;MAAL,iB;QA
A2B,OAAO,I;OAA5C,UAAU,I;MACV,IAAI,MAAM,sCAAK,UAAX,IAAwB,MAAM,sCAAK,UAAvC,C;QAAk
D,OAAO,I;MACzD,OAAW,OAAJ,GAAI,C;K;IAGf,kC;MAK4C,kCAAsB,EAAtB,C;K;IAE5C,2C;MAQmB,Q;M
AAA,qBAAL,SAAK,EAAY,KAAZ,C;MAAL,iB;QAA2B,OAAO,I;OAA5C,UAAU,I;MACV,IAAI,MAAM,uCAA
M,UAAZ,IAAyB,MAAM,uCAAM,UAAzC,C;QAAoD,OAAO,I;MAC3D,OAAW,QAAJ,GAAI,C;K;IAGf,gC;MA
KwC,gCAAoB,EAApB,C;K;IAExC,yC;MAQI,WAAW,KAAX,C;MAEA,aAAa,SAAK,O;MAClB,IAAI,WAAU,C
AAd,C;QAAiB,OAAO,I;MAExB,S;MACA,c;MACA,S;MAEA,gBAAgB,qBAAK,CAAL,C;MAChB,IAAI,YAAY,
EAAhB,C;QACI,IAAI,WAAU,CAAd,C;UAAiB,OAAO,I;QAExB,QAAQ,C;QAER,IAAI,cAAa,EAAjB,C;UACI,a
AAa,I;UACb,QAAQ,W;eACL,IAAI,cAAa,EAAjB,C;UACH,aAAa,K;UACb,QAAQ,W;;UAER,OAAO,I;;QAEX,Q
AAQ,C;QACR,aAAa,K;QACb,QAAQ,W;;MAIZ,uBAAuB,S;MAEvB,qBAAqB,gB;MACrB,aAAa,C;MACb,aAA
U,KAAV,MAAsB,MAAtB,M;QACI,YAAY,QAAQ,qBAAK,CAAL,CAAR,EAAiB,KAAjB,C;QAEZ,IAAI,QAAQ
,CAAZ,C;UAAe,OAAO,I;QACtB,IAAI,SAAS,cAAb,C;UACI,IAAI,mBAAkB,gBAAtB,C;YACI,iBAAiB,QAAQ,
KAAR,I;YAEjB,IAAI,SAAS,cAAb,C;cACI,OAAO,I;;YAGX,OAAO,I;;SAIf,6BAAU,KAAV,C;QAEA,IAAI,UAA
S,QAAQ,KAAR,IAAT,CAAJ,C;UAA4B,OAAO,I;QAEnC,kBAAU,KAAV,I;;MAGJ,OAAW,UAAJ,GAAgB,MA
AhB,GAA4B,CAAC,MAAD,I;K;IAGvC,iC;MAK0C,iCAAqB,EAArB,C;K;IAE1C,0C;MAQI,WAAW,KAAX,C;
MAEA,aAAa,SAAK,O;MAClB,IAAI,WAAU,CAAd,C;QAAiB,OAAO,I;MAExB,S;MACA,c;MACA,S;MAEA,gB
AAgB,qBAAK,CAAL,C;MAChB,IAAI,YAAY,EAAhB,C;QACI,IAAI,WAAU,CAAd,C;UAAiB,OAAO,I;QAExB,
QAAQ,C;QAER,IAAI,cAAa,EAAjB,C;UACI,aAAa,I;UACb,gC;eACG,IAAI,cAAa,EAAjB,C;UACH,aAAa,K;UA
Cb,6B;;UAEA,OAAO,I;;QAEX,QAAQ,C;QACR,aAAa,K;QACb,6B;;MAIJ,2C;MAEA,qBAAqB,gB;MACrB,e;M
ACA,aAAU,KAAV,MAAsB,MAAtB,M;QACI,YAAY,QAAQ,qBAAK,CAAL,CAAR,EAAiB,KAAjB,C;QAEZ,IA
AI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,IAAI,uBAAS,cAAT,KAAJ,C;UACI,IAAI,uBAAkB,gBAAlB,CAAJ,
C;YACI,iBAAiB,8BAAQ,KAAR,E;YAEjB,IAAI,uBAAS,cAAT,KAAJ,C;cACI,OAAO,I;;YAGX,OAAO,I;;SAIf,6
CAAU,KAAV,E;QAEA,IAAI,uBAAS,8BAAQ,KAAR,EAAT,KAAJ,C;UAA4B,OAAO,I;QAEnC,6CAAU,KAAV,
E;;MAGJ,OAAW,UAAJ,GAAgB,MAAhB,GAA6B,MAAD,a;K;IAIvC,kC;MAAyD,MAAM,0BAAsB,6BAA0B,K
AA1B,MAAtB,C;K;uEwBhI/D,yB;MAAA,oC;MAAA,uC;QAII,iBAAiB,C;QACCjB,eAAe,mBAAS,CAAT,I;QACf,
iBAAiB,K;QAEjB,OAAO,cAAc,QAArB,C;UACI,YAAgB,CAAC,UAAL,GAAiB,UAAjB,GAAiC,Q;UAC7C,YA
AY,UAAU,iCAAK,KAAL,EAAV,C;UAEZ,IAAI,CAAC,UAAL,C;YACI,IAAI,CAAC,KAAL,C;cACI,aAAa,I;;cA
Eb,0BAAc,CAAd,I;;YAEJ,IAAI,CAAC,KAAL,C;cACI,K;;cAEA,sBAAY,CAAZ,I;;;QAIZ,OAAO,8BAAY,UAAZ
,EAAwB,WAAW,CAAX,IAAxB,C;O;KAzBX,C;yEA4BA,yB;MAAA,8B;MA5BA,oC;MA4BA,uC;QAIK,Q;QAA
sB,kBAAtB,2D;QA5BD,iBAAiB,C;QACjB,eAAe,qBAAS,CAAT,I;QACf,iBAAiB,K;QAEjB,OAAO,cAAc,QAAr
B,C;UACI,YAAgB,CAAC,UAAL,GAAiB,UAAjB,GAAiC,Q;UAC7C,YAsBwB,SAtBZ,CAAU,mCAAK,KAAL,E
AAV,C;UAEZ,IAAI,CAAC,UAAL,C;YACI,IAAI,CAAC,KAAL,C;cACI,aAAa,I;;cAEb,0BAAc,CAAd,I;;YAEJ,I
AAI,CAAC,KAAL,C;cACI,K;;cAEA,sBAAY,CAAZ,I;;;QAWZ,OAPO,gCAAY,UAAZ,EAAwB,WAAW,CAAX,I
AAxB,CAOgC,W;O;KAJ3C,C;iFAMA,yB;MAAA,mD;MAAA,oC;MAAA,uC;QAIuB,UAAL,MAAK,EAAL,MA
AK,EAAL,M;QAAK,mBAAL,SAAK,C;QAAL,mB;QAAA,kB;QAAA,kB;QAAd,0D;UACI,IAAI,CAAC,UAAU,i
CAAK,KAAL,EAAV,CAAL,C;YACI,OAAO,8BAAY,KAAZ,EAAmB,gBAAnB,C;QAEf,OAAO,E;O;KARX,C;m
FAWA,yB;MAAA,8B;MAXA,mD;MAAA,oC;MAWA,uC;QAIK,Q;QAAsB,kBAAtB,2D;QAAsB,oB;;UAXJ,kC;
UAAA,qBAAL,WAAK,C;UAAL,qB;UAAA,oB;UAAA,oB;UAAd,0D;YACI,IAAI,CAUyB,SAVxB,CAAU,mCA
AK,KAAL,EAAV,CAAL,C;cACI,mBAAO,gCAAY,KAAZ,EAAmB,kBAAnB,C;cAAP,qB;aAER,mBAAO,E;;;Q
AOP,OAA4C,2B;O;KAJhD,C;6EAMA,yB;MAAA,mD;MAAA,+C;MAAA,oC;MAAA,uC;QAIkB,Q;QAAA,OAA
a,SAAR,YAAL,SAAK,CAAQ,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,IAAI,CAAC,UAAU,iCAAK,K
AAL,EAAV,CAAL,C;YACI,OAAO,8BAAY,CAAZ,EAAe,QAAQ,CAAR,IAAf,C;;QAEf,OAAO,E;O;KARX,C;+
EAWA,yB;MAAA,8B;MAXA,mD;MAAA,+C;MAAA,oC;MAWA,uC;QAIK,Q;QAAsB,kBAAtB,2D;QAAsB,kB;;

UAXT,U;UAAA,SAAa,SAAR,YAAL,WAAK,CAAQ,CAAb,W;UAAd,OAAc,gBAAd,C;YAAc,yB;YACV,IAAI,
CAUuB,SAVtB,CAAU,mCAAK,KAAL,EAAV,CAAL,C;cACI,iBAAO,gCAAY,CAAZ,EAAe,QAAQ,CAAR,IAA
f,C;cAAP,mB;;UAER,iBAAO,E;;;QAOP,OAA0C,yB;O;KAJ9C,C;IAMA,kC;MAhEI,iBAAiB,C;MACjB,eAAe,m
BAAS,CAAT,I;MACf,iBAAiB,K;MAEjB,OAAO,cAAc,QAArB,C;QACI,YAAgB,CAAC,UAAL,GAAiB,UAAjB,
GAAiC,Q;QAC7C,YA6DgE,4BA7D1C,iCAAK,KAAL,EA6D0C,E;QA3DhE,IAAI,CAAC,UAAL,C;UACI,IAAI,
CAAC,KAAL,C;YACI,aAAa,I;;YAEb,0BAAc,CAAd,I;;UAEJ,IAAI,CAAC,KAAL,C;YACI,K;;YAEA,sBAAY,C
AAZ,I;;;MAkDiD,OA9CtD,8BAAY,UAAZ,EAAwB,WAAW,CAAX,IAAxB,C;K;IAgDX,kC;MAzCK,Q;MAAsB,
kBAAtB,2D;MA5BD,iBAAiB,C;MACjB,eAAe,qBAAS,CAAT,I;MACf,iBAAiB,K;MAEjB,OAAO,cAAc,QAArB,
C;QACI,YAAgB,CAAC,UAAL,GAAiB,UAAjB,GAAiC,Q;QAC7C,YAkEoD,4BAlE9B,mCAAK,KAAL,EAkE8B
,E;QAhEpD,IAAI,CAAC,UAAL,C;UACI,IAAI,CAAC,KAAL,C;YACI,aAAa,I;;YAEb,0BAAc,CAAd,I;;UAEJ,IA
AI,CAAC,KAAL,C;YACI,K;;YAEA,sBAAY,CAAZ,I;;;MAuDqC,OAnD1C,gCAAY,UAAZ,EAAwB,WAAW,CA
AX,IAAxB,CAOgC,W;K;IA8C3C,uC;MAGsE,oB;;QA3C/C,gC;QAAA,gC;QAAL,mB;QAAA,kB;QAAA,kB;QA
Ad,0D;UACI,IAAI,CA0CsE,4BA1C3D,iCAAK,KAAL,EA0C2D,EA1C1E,C;YACI,mBAAO,8BAAY,KAAZ,EAA
mB,gBAAnB,C;YAAP,qB;;QAER,mBAAO,E;;;MAuC2D,uB;K;IAEtE,uC;MAlCK,Q;MAAsB,kBAAtB,2D;MAAs
B,oB;;QAXJ,kC;QAAA,wBAAL,WAAK,C;QAAL,qB;QAAA,oB;QAAA,oB;QAAd,0D;UACI,IAAI,CA+C0D,4B
A/C/C,mCAAK,KAAL,EA+C+C,EA/C9D,C;YACI,mBAAO,gCAAY,KAAZ,EAAmB,kBAAnB,C;YAAP,qB;;QA
ER,mBAAO,E;;;MA4C+C,OArCV,2B;K;IAuChD,qC;MAGoE,kB;;QApClD,Q;QAAA,OAAa,WAAR,yBAAQ,CA
Ab,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,IAAI,CAmCkE,4BAnCvD,iCAAK,KAAL,EAmCuD,EAnCtE,C;Y
ACI,iBAAO,8BAAY,CAAZ,EAAe,QAAQ,CAAR,IAAf,C;YAAP,mB;;QAER,iBAAO,E;;;MAgCyD,qB;K;IAEpE,
qC;MA3BK,Q;MAAsB,kBAAtB,2D;MAAsB,kB;;QAXT,U;QAAA,SAAa,WAAR,eAAL,WAAK,CAAQ,CAAb,W
;QAAd,OAAc,gBAAd,C;UAAc,yB;UACV,IAAI,CAwCsD,4BAxC3C,mCAAK,KAAL,EAwC2C,EAxC1D,C;YAC
I,iBAAO,gCAAY,CAAZ,EAAe,QAAQ,CAAR,IAAf,C;YAAP,mB;;QAER,iBAAO,E;;;MAqC6C,OA9BV,yB;K;IA
gC9C,2B;MA9FI,iBAAiB,C;MACjB,eAAe,mBAAS,CAAT,I;MACf,iBAAiB,K;MAEjB,OAAO,cAAc,QAArB,C;
QACI,YAAgB,CAAC,UAAL,GAAiB,UAAjB,GAAiC,Q;QAC7C,mCAAsB,iCAAK,KAAL,EAAtB,E;QAEA,IAA
I,CAAC,UAAL,C;UACI,IAAI,CAAC,KAAL,C;YACI,aAAa,I;;YAEb,0BAAc,CAAd,I;;UAEJ,IAAI,CAAC,KAAL,
C;YACI,K;;YAEA,sBAAY,CAAZ,I;;;MAgF+B,OA5EpC,8BAAY,UAAZ,EAAwB,WAAW,CAAX,IAAxB,C;K;y
EA8EX,yB;MAAA,8B;MAAA,qC;MAAA,4B;QAI2C,Q;QAAD,OAAuB,KAAtB,2DAAsB,CAAO,W;O;KAJxE,C
;IAMA,gC;MAGoD,oB;;QA1E7B,gC;QAAA,gC;QAAL,mB;QAAA,kB;QAAA,kB;QAAd,0D;UACI,IAAI,wBAA
W,iCAAK,KAAL,EAAX,EAAJ,C;YACI,mBAAO,8BAAY,KAAZ,EAAmB,gBAAnB,C;YAAP,qB;;QAER,mBAA
O,E;;;MAsEyC,uB;K;mFAEpD,yB;MAAA,8B;MAAA,+C;MAAA,4B;QAIgD,Q;QAAD,OAAuB,UAAtB,2DAAs
B,CAAY,W;O;KAJlF,C;IAMA,8B;MAGkD,kB;;QApEhC,Q;QAAA,OAAa,WAAR,yBAAQ,CAAb,W;QAAd,OA
Ac,cAAd,C;UAAc,uB;UACV,IAAI,wBAAW,iCAAK,KAAL,EAAX,EAAJ,C;YACI,iBAAO,8BAAY,CAAZ,EAA
e,QAAQ,CAAR,IAAf,C;YAAP,mB;;QAER,iBAAO,E;;;MAgEuC,qB;K;+EAElD,yB;MAAA,8B;MAAA,2C;MAA
A,4B;QAI8C,Q;QAAD,OAAuB,QAAtB,2DAAsB,CAAU,W;O;KAJ9E,C;IAMA,8C;MAU8C,uB;QAAA,UAAgB,
E;MAO5C,Q;MANd,IAAI,SAAS,CAAb,C;QACI,MAAM,gCAAyB,oBAAiB,MAAjB,wBAAzB,C;MACV,IAAI,U
AAU,SAAK,OAAnB,C;QACI,OAAY,mBAAL,SAAK,EAAY,CAAZ,EAAe,SAAK,OAApB,C;MAEhB,SAAS,mB
AAc,MAAd,C;MACK,gBAAS,SAAK,OAAd,I;MAAd,aAAU,CAAV,iB;QACI,EAAG,gBAAO,OAAP,C;MACP,E
AAG,gBAAO,SAAP,C;MACH,OAAO,E;K;IAGX,gD;MASwC,uB;QAAA,UAAgB,E;MACnD,Q;MAAD,OAAuB,
SAAtB,6DAAsB,EAAS,MAAT,EAAiB,OAAjB,CAA0B,W;K;IAErD,4C;MAU4C,uB;QAAA,UAAgB,E;MAQ1C,
Q;MAPd,IAAI,SAAS,CAAb,C;QACI,MAAM,gCAAyB,oBAAiB,MAAjB,wBAAzB,C;MACV,IAAI,UAAU,SAA
K,OAAnB,C;QACI,OAAY,mBAAL,SAAK,EAAY,CAAZ,EAAe,SAAK,OAApB,C;MAEhB,SAAS,mBAAc,MAA
d,C;MACT,EAAG,gBAAO,SAAP,C;MACW,gBAAS,SAAK,OAAd,I;MAAd,aAAU,CAAV,iB;QACI,EAAG,gBA
AO,OAAP,C;MACP,OAAO,E;K;IAGX,8C;MASsC,uB;QAAA,UAAgB,E;MACjD,Q;MAAD,OAAuB,OAAtB,6D
AAsB,EAAO,MAAP,EAAe,OAAf,CAAwB,W;K;2FAEnD,qB;MAWI,OAAO,qBAAgB,SAAK,OAAL,KAAe,C;K
;+EAG1C,qB;MAMoD,4BAAU,C;K;sFAE9D,qB;MAMuD,0BAAS,C;K;mFAMhE,yB;MAAA,2C;MAAA,4B;QA
MuD,QAAC,kB;O;KANxD,C;yFAQA,yB;MAAA,2C;MAAA,4B;QAWI,OAAO,qBAAqB,QAAL,SAAK,C;O;KA
XhC,C;IAiB4D,+C;MAAA,kC;MAAS,uB;MACjE,eAAoB,C;K;gDAEpB,Y;MAA2C,gB;MAAA,iE;MAAJ,4C;K;+
CAEvC,Y;MAAyC,sBAAQ,yB;K;;IARrD,+B;MAG4D,4C;K;+EAQ5D,qB;MAE8C,uCAAQ,E;K;+EAEtD,mC;M

ASI,OA5DgD,qBAAU,CA4D1D,GAAe,cAAf,GAAmC,S;K;6EAEvC,yB;MAAA,2C;MAAA,0C;QASI,OAAI,kBA
AJ,GAAe,cAAf,GAAmC,S;O;KATvC,C;IAeI,mC;MAAQ,uBAAG,mBAAS,CAAT,IAAH,C;K;IAMR,qC;MAAQ,
OAAA,SAAK,OAAL,GAAc,CAAd,I;K;IAEZ,8C;MAIuB,Q;MAAA,0BAAS,CAAT,I;MAAnB,OAAgB,CAAT,8B
ACgB,gBAAZ,qBAAK,KAAL,CAAY,CADhB,IAEoB,eAAhB,qBAAK,QAAQ,CAAR,IAAL,CAAgB,C;K;IAG/B,
uC;MAGuD,ONpKyC,oBMoK/B,KAAM,MNpKyB,EMoKlB,KAAM,aAAN,GAAqB,CAArB,INpKkB,C;K;IMsK
hG,yC;MAGqE,qCAAY,KAAM,MAAlB,EAAyB,KAAM,aAAN,GAAqB,CAArB,IAAzB,C;K;uFAErE,iC;MAS2E
,2BAAY,KAAZ,EAAmB,GAAnB,C;K;mFAE3E,2C;MAO0D,wB;QAAA,WAAgB,gB;MAAkB,OAAA,8BAAY,U
AAZ,EAAwB,QAAxB,CAAkC,W;K;IAE9H,uC;MAG6D,OAAA,8BAAY,KAAM,MAAlB,EAAyB,KAAM,aAAN
,GAAqB,CAArB,IAAzB,CAAiD,W;K;IAE9G,sE;MAImD,qC;QAAA,wBAAgC,S;MAC/E,YAAY,sBAAQ,SAAR,
C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN1M4F,oBM0M/B,CN1M+B,EM0M5B,KN1M4B,C;K;IM
6MhG,wE;MAIqD,qC;QAAA,wBAAgC,S;MACjF,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNnN4F,oBMmN/B,CNnN+B,EMmN5B,KNnN4B,C;K;IMsNhG,qE;MAIkD,qC;QAAA,wBAAgC,C
S;MAC9E,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN5N4F,oBM4N/B,CN5N+B,EM4N5B,KN5N4B,C;K;IM+NhG,uE;MAIoD,qC;QAAA,wBAAgC,S;MAChF,YAAY,sBAAQ,SAAR,
C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNrO4F,oBMqO/B,CNrO+B,EMqO5B,KNrO4B,C;K;IMwOhG,0E;MAIuD,qC;QAAA,wBAAgC,S;MACnF,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN9O4F,oBM8O/B,CN9O+B,EM8O5B,KN9O4B,C;K;IMiPhG,4E;MAIyD,qC;QAAA,wBAAgC,S;MACrF,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNvP4F,oBMuP/B,CNvP+B,EMuP5B,KNvP4B,C;K;IM0PhG,8E;MAI2D,qC;QAAA,wBAAgC,S;MACvF,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNhQ4F,oBMgQ/B,CNhQ+B,EMgQ5B,KNhQ4B,C;K;IMmQhG,gF;MAI6D,qC;QAAA,wBAAgC,S;MACzF,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNzQ4F,oBMyQ/B,CNzQ+B,EMyQ5B,KNzQ4B,C;K;IM4QhG,kF;MAI+D,qC;QAAA,wBAAgC,S;MAC3F,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNlR4F,oBMkR/B,CNlR+B,EMkR5B,KNlR4B,C;K;IMqRhG,oF;MAIiE,qC;QAAA,wBAAgC,S;MAC7F,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN3R4F,oBM2R/B,CN3R+B,EM2R5B,KN3R4B,C;K;IM8RhG,sF;MAImE,qC;QAAA,wBAAgC,S;MAC/F,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNpS4F,oBMoS/B,CNpS+B,EMoS5B,KNpS4B,C;K;IMuShG,wF;MAIqE,qC;QAAA,wBAAgC,S;MACjG,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN7S4F,oBM6S/B,CN7S+B,EM6S5B,KN7S4B,C;K;IMgThG,0F;MAIuE,qC;QAAA,wBAAgC,S;MACnG,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNtT4F,oBMsT/B,CNtT+B,EMsT5B,KNtT4B,C;K;IMyThG,4F;MAIyE,qC;QAAA,wBAAgC,S;MACrG,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN/T4F,oBM+T/B,CN/T+B,EM+T5B,KN/T4B,C;K;IMkUhG,8F;MAI2E,qC;QAAA,wBAAgC,S;MACvG,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNxU4F,oBMwU/B,CNxU+B,EMwU5B,KNxU4B,C;K;IM2UhG,gG;MAI6E,qC;QAAA,wBAAgC,S;MACzG,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNjV4F,oBMiV/B,CNjV+B,EMiV5B,KNjV4B,C;K;IMoVhG,kG;MAI+E,qC;QAAA,wBAAgC,S;MAC3G,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN1V4F,oBM0V/B,CN1V+B,EM0V5B,KN1V4B,C;K;IM6VhG,oG;MAIiF,qC;QAAA,wBAAgC,S;MAC7G,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNnW4F,oBMmW/B,CNnW+B,EMmW5B,KNnW4B,C;K;IMsWhG,sG;MAImF,qC;QAAA,wBAAgC,S;MAC/G,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN5W4F,oBM4W/B,CN5W+B,EM4W5B,KN5W4B,C;K;IM+WhG,wG;MAIqF,qC;QAAA,wBAAgC,S;MACjH,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNrX4F,oBMqX/B,CNrX+B,EMqX5B,KNrX4B,C;K;IMwXhG,0G;MAIuF,qC;QAAA,wBAAgC,S;MACnH,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN9X4F,oBM8X/B,CN9X+B,EM8X5B,KN9X4B,C;K;IMiYhG,4G;MAIyF,qC;QAAA,wBAAgC,S;MACrH,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNvY4F,oBMuY/B,CNvY+B,EMuY5B,KNvY4B,C;K;IM0YhG,8G;MAI2F,qC;QAAA,wBAAgC,S;MACvH,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNhZ4F,oBMgZ/B,CNhZ+B,EMgZ5B,KNhZ4B,C;K;IMmZhG,gH;MAI6F,qC;QAAA,wBAAgC,S;MACzH,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNzZ4F,oBMyZ/B,CNzZ+B,EMyZ5B,KNzZ4B,C;K;IM4ZhG,kH;MAI+F,qC;QAAA,wBAAgC,S;MAC3H,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNla4F,oBMka/B,CNla+B,EMka5B,KNla4B,C;K;IMqahG,oH;MAIiG,qC;QAAA,wBAAgC,S;MAC7H,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN3a4F,oBM2a/B,CN3a+B,EM2a5B,KN3a4B,C;K;IM8ahG,sH;MAImG,qC;QAAA,wBAAgC,S;MAC/H,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNpb4F,oBMob/B,CNpb+B,EMob5B,KNpb4B,C;K;IMubhG,wH;MAIqG,qC;QAAA,wBAAgC,S;MACjI,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN7b4F,oBM6b/B,CN7b+B,EM6b5B,KN7b4B,C;K;IMgchG,0H;MAIuG,qC;QAAA,wBAAgC,S;MACnI,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNtc4F,oBMsc/B,CNtc+B,EMsc5B,KNtc4B,C;K;IMych,4H;MAIyG,qC;QAAA,wBAAgC,S;MACrI,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN/c4F,oBM+c/B,CN/c+B,EM+c5B,KN/c4B,C;K;IMkdhG,8H;MAI2G,qC;QAAA,wBAAgC,S;MACvI,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNxd4F,oBMwd/B,CNxd+B,EMwd5B,KNxd4B,C;K;IM2dhG,gI;MAI6G,qC;QAAA,wBAAgC,S;MACzI,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNje4F,oBMie/B,CNje+B,EMie5B,KNje4B,C;K;IMoehG,kI;MAIiH,qC;QAAA,wBAAgC,S;MAC7I,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN1e4F,oBM0e/B,CN1e+B,EM0e5B,KN1e4B,C;K;IM6ehG,oI;MAIiH,qC;QAAA,wBAAgC,S;MAC7I,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNnf4F,oBMmf/B,CNnf+B,EMmf5B,KNnf4B,C;K;IMsfhG,sI;MAImH,qC;QAAA,wBAAgC,S;MAC/I,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN5f4F,oBM4f/B,CN5f+B,EM4f5B,KN5f4B,C;K;IM+fhG,wI;MAIqH,qC;QAAA,wBAAgC,S;MACjJ,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNrg4F,oBMqg/B,CNrg+B,EMqg5B,KNrg4B,C;K;IMwghG,0I;MAIuH,qC;QAAA,wBAAgC,S;MACnJ,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN9g4F,oBM8g/B,CN9g+B,EM8g5B,KN9g4B,C;K;IMihhG,4I;MAIyH,qC;QAAA,wBAAgC,S;MACrJ,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNvh4F,oBMuh/B,CNvh+B,EMuh5B,KNvh4B,C;K;IM0hhG,8I;MAIuH,qC;QAAA,wBAAgC,S;MACnJ,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNhi4F,oBMgi/B,CNhi+B,EMgi5B,KNhi4B,C;K;IMmihG,gJ;MAIgI,qC;QAAA,wBAAgC,S;MAC5J,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNzi4F,oBMyi/B,CNzi+B,EMyi5B,KNzi4B,C;K;IM4ihG,kJ;MAIiI,qC;QAAA,wBAAgC,S;MAC7J,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNlj4F,oBMkj/B,CNlj+B,EMkj5B,KNlj4B,C;K;IMqjhG,oJ;MAIiI,qC;QAAA,wBAAgC,S;MAC7J,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN3j4F,oBM2j/B,CN3j+B,EM2j5B,KN3j4B,C;K;IM8jhG,sJ;MAImI,qC;QAAA,wBAAgC,S;MAC/K,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNpk4F,oBMok/B,CNpk+B,EMok5B,KNpk4B,C;K;IMukhG,wJ;MAIqJ,qC;QAAA,wBAAgC,S;MACjL,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN7k4F,oBM6k/B,CN7k+B,EM6k5B,KN7k4B,C;K;IMglhG,0J;MAIuJ,qC;QAAA,wBAAgC,S;MACnL,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNtl4F,oBMsl/B,CNtl+B,EMsl5B,KNtl4B,C;K;IMylhG,4J;MAIyJ,qC;QAAA,wBAAgC,S;MACrL,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN/l4F,oBM+l/B,CN/l+B,EM+l5B,KN/l4B,C;K;IMkmhG,8J;MAI2J,qC;QAAA,wBAAgC,S;MACvL,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNxm4F,oBMwm/B,CNxm+B,EMwm5B,KNxm4B,C;K;IM2mhG,gK;MAI6J,qC;QAAA,wBAAgC,S;MACzL,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNjn4F,oBMin/B,CNjn+B,EMin5B,KNjn4B,C;K;IMonhG,kK;MAIiK,qC;QAAA,wBAAgC,S;MAC7L,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN1n4F,oBM0n/B,CN1n+B,EM0n5B,KN1n4B,C;K;IM6nhG,oK;MAIiK,qC;QAAA,wBAAgC,S;MAC7L,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNno4F,oBMmo/B,CNno+B,EMmo5B,KNno4B,C;K;IMsohG,sK;MAImK,qC;QAAA,wBAAgC,S;MAC/M,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN5o4F,oBM4o/B,CN5o+B,EM4o5B,KN5o4B,C;K;IM+ohG,wK;MAIqL,qC;QAAA,wBAAgC,S;MACjN,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNrp4F,oBMqp/B,CNrp+B,EMqp5B,KNrp4B,C;K;IMwphG,0K;MAIuL,qC;QAAA,wBAAgC,S;MACnN,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN9p4F,oBM8p/B,CN9p+B,EM8p5B,KN9p4B,C;K;IMiqhG,4K;MAIyL,qC;QAAA,wBAAgC,S;MACrN,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNvq4F,oBMuq/B,CNvq+B,EMuq5B,KNvq4B,C;K;IM0qhG,8K;MAIuL,qC;QAAA,wBAAgC,S;MACnN,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNhr4F,oBMgr/B,CNhr+B,EMgr5B,KNhr4B,C;K;IMmrhG,gL;MAIgM,qC;QAAA,wBAAgC,S;MAC5N,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNzr4F,oBMyr/B,CNzr+B,EMyr5B,KNzr4B,C;K;IM4rhG,kL;MAIiM,qC;QAAA,wBAAgC,S;MAC7N,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNls4F,oBMks/B,CNls+B,EMks5B,KNls4B,C;K;IMqshG,oL;MAIiM,qC;QAAA,wBAAgC,S;MAC7N,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN3s4F,oBM2s/B,CN3s+B,EM2s5B,KN3s4B,C;K;IM8shG,sL;MAImM,qC;QAAA,wBAAgC,S;MAC/O,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNpt4F,oBMot/B,CNpt+B,EMot5B,KNpt4B,C;K;IMuthG,wL;MAIqN,qC;QAAA,wBAAgC,S;MACjP,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN7t4F,oBM6t/B,CN7t+B,EM6t5B,KN7t4B,C;K;IMguhG,0L;MAIuN,qC;QAAA,wBAAgC,S;MACnP,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNtu4F,oBMsu/B,CNtu+B,EMsu5B,KNtu4B,C;K;IMyuhG,4L;MAIyN,qC;QAAA,wBAAgC,S;MACrP,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN/u4F,oBM+u/B,CN/u+B,EM+u5B,KN/u4B,C;K;IMkvhG,8L;MAI2N,qC;QAAA,wBAAgC,S;MACvP,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNxv4F,oBMwv/B,CNxv+B,EMwv5B,KNxv4B,C;K;IM2vhG,gM;MAI6N,qC;QAAA,wBAAgC,S;MACzP,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNjw4F,oBMiw/B,CNjw+B,EMiw5B,KNjw4B,C;K;IMowhG,kM;MAIiO,qC;QAAA,wBAAgC,S;MAC7P,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN1w4F,oBM0w/B,CN1w+B,EM0w5B,KN1w4B,C;K;IM6whG,oM;MAIiO,qC;QAAA,wBAAgC,S;MAC7P,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNnx4F,oBMmx/B,CNnx+B,EMmx5B,KNnx4B,C;K;IMsxhG,sM;MAImO,qC;QAAA,wBAAgC,S;MAC/P,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN5x4F,oBM4x/B,CN5x+B,EM4x5B,KN5x4B,C;K;IM+xhG,wM;MAIqP,qC;QAAA,wBAAgC,S;MACjR,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNry4F,oBMqy/B,CNry+B,EMqy5B,KNry4B,C;K;IMwyhG,0M;MAIuP,qC;QAAA,wBAAgC,S;MACnR,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN9y4F,oBM8y/B,CN9y+B,EM8y5B,KN9y4B,C;K;IMizhG,4M;MAIyP,qC;QAAA,wBAAgC,S;MACrR,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNvz4F,oBMuz/B,CNvz+B,EMuz5B,KNvz4B,C;K;IM0zhG,8M;MAIuP,qC;QAAA,wBAAgC,S;MACnR,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNh04F,oBMg0/B,CNh0+B,EMg05B,KNh04B,C;K;IMm0hG,gN;MAIgQ,qC;QAAA,wBAAgC,S;MAC5R,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNz04F,oBMy0/B,CNz0+B,EMy05B,KNz04B,C;K;IM40hG,kN;MAIiQ,qC;QAAA,wBAAgC,S;MAC7R,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNl14F,oBMk1/B,CNl1+B,EMk15B,KNl14B,C;K;IMq1hG,oN;MAIiQ,qC;QAAA,wBAAgC,S;MAC7R,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN31/B,oBM21/B,CN31+B,EM21/B,KN31/B,C;K;IM81hG,sN;MAImS,qC;QAAA,wBAAgC,S;MAC/T,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNp24F,oBMo2/B,CNp2+B,EMo25B,KNp24B,C;K;IMu2hG,wN;MAIqT,qC;QAAA,wBAAgC,S;MACjV,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN73/B,oBM63/B,CN73+B,EM63/B,KN73/B,C;K;IMg4hG,0N;MAIuT,qC;QAAA,wBAAgC,S;MACnV,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNt44F,oBMs4/B,CNt4+B,EMs45B,KNt44B,C;K;IMy4hG,4N;MAIyT,qC;QAAA,wBAAgC,S;MACrV,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN/54F,oBM+5/B,CN/5+B,EM+55B,KN/54B,C;K;IMk5hG,8N;MAI2T,qC;QAAA,wBAAgC,S;MACvV,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNx64F,oBMw6/B,CNx6+B,EMw65B,KNx64B,C;K;IM26hG,gO;MAI6U,qC;QAAA,wBAAgC,S;MACzW,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNj74F,oBMi7/B,CNj7+B,EMi75B,KNj74B,C;K;IMo7hG,kO;MAIiW,qC;QAAA,wBAAgC,S;MAC7X,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN18/B,oBM08/B,CN18+B,EM08/B,KN18/B,C;K;IM68hG,oO;MAIiW,qC;QAAA,wBAAgC,S;MAC7X,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNn94F,oBMm9/B,CNn9+B,EMm95B,KNn94B,C;K;IMs9hG,sO;MAImY,qC;QAAA,wBAAgC,S;MAC/Z,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN5+4F,oBM4+/B,CN5++B,EM4+5B,KN5+4B,C;K;IM++hG,wO;MAIqZ,qC;QAAA,wBAAgC,S;MACjb,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNrg5F,oBMqg/B,CNrg++B,EMqg55B,KNrg4B,C;K;IMwghG,0O;MAIuZ,qC;QAAA,wBAAgC,S;MACnb,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN9g5F,oBM8g/B,CN9g++B,EM8g55B,KN9g4B,C;K;IMihhG,4O;MAIyZ,qC;QAAA,wBAAgC,S;MACrb,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNvh5F,oBMuh/B,CNvh++B,EMuh55B,KNvh4B,C;K;IM0hhG,8O;MAIuZ,qC;QAAA,wBAAgC,S;MACnb,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNhi5F,oBMgi/B,CNhi++B,EMgi55B,KNhi4B,C;K;IMmihG,gP;MAIgb,qC;QAAA,wBAAgC,S;MAC5c,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNzi5F,oBMyi/B,CNzi++B,EMyi55B,KNzi4B,C;K;IM4ihG,kP;MAIic,qC;QAAA,wBAAgC,S;MAC7d,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNlj5F,oBMkj/B,CNlj++B,EMkj55B,KNlj4B,C;K;IMqjhG,oP;MAIic,qC;QAAA,wBAAgC,S;MAC7d,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN3j5F,oBM2j/B,CN3j++B,EM2j55B,KN3j4B,C;K;IM8jhG,sP;MAIme,qC;QAAA,wBAAgC,S;MAC/f,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNpk5F,oBMok/B,CNpk++B,EMok55B,KNpk4B,C;K;IMukhG,wP;MAIqf,qC;QAAA,wBAAgC,S;MACjhB,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN7k5F,oBM6k/B,CN7k++B,EM6k55B,KN7k4B,C;K;IMglhG,0P;MAIuf,qC;QAAA,wBAAgC,S;MACnhB,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNtl5F,oBMsl/B,CNtl++B,EMsl55B,KNtl4B,C;K;IMylhG,4P;MAIyf,qC;QAAA,wBAAgC,S;MACrhB,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN/l5F,oBM+l/B,CN/l++B,EM+l55B,KN/l4B,C;K;IMkmhG,8P;MAI2f,qC;QAAA,wBAAgC,S;MACvhB,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNxm5F,oBMwm/B,CNxm++B,EMwm55B,KNxm4B,C;K;IM2mhG,gQ;MAI6f,qC;QAAA,wBAAgC,S;MACzhB,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNjn5F,oBMin/B,CNjn++B,EMin55B,KNjn4B,C;K;IMonhG,kQ;MAIigB,qC;QAAA,wBAAgC,S;MAC7iB,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN1n5F,oBM0n/B,CN1n++B,EM0n55B,KN1n4B,C;K;IM6nhG,oQ;MAIigB,qC;QAAA,wBAAgC,S;MAC7iB,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNno5F,oBMmo/B,CNno++B,EMmo55B,KNno4B,C;K;IMsohG,sQ;MAImiB,qC;QAAA,wBAAgC,S;MAC/jB,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN5o5F,oBM4o/B,CN5o++B,EM4o55B,KN5o4B,C;K;IM+ohG,wQ;MAIqkB,qC;QAAA,wBAAgC,S;MACjmB,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNrp5F,oBMqp/B,CNrp++B,EMqp55B,KNrp4B,C;K;IMwphG,0Q;MAIulB,qC;QAAA,wBAAgC,S;MACnnB,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN9p5F,oBM8p/B,CN9p++B,EM8p55B,KN9p4B,C;K;IMiqhG,4Q;MAIylB,qC;QAAA,wBAAgC,S;MACrnB,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNvq5F,oBMuq/B,CNvq++B,EMuq55B,KNvq4B,C;K;IM0qhG,8Q;MAIumB,qC;QAAA,wBAAgC,S;MACnoB,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNhr5F,oBMgr/B,CNhr++B,EMgr55B,KNhr4B,C;K;IMmrhG,gR;MAIgnB,qC;QAAA,wBAAgC,S;MAC5oB,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNzr5F,oBMyr/B,CNzr++B,EMyr55B,KNzr4B,C;K;IM4rhG,kR;MAIinB,qC;QAAA,wBAAgC,S;MAC7oB,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNls5F,oBMks/B,CNls++B,EMks55B,KNls4B,C;K;IMqshG,oR;MAIinB,qC;QAAA,wBAAgC,S;MAC7oB,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN3s5F,oBM2s/B,CN3s++B,EM2s55B,KN3s4B,C;K;IM8shG,sR;MAImoB,qC;QAAA,wBAAgC,S;MAC/pB,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNpt5F,oBMot/B,CNpt++B,EMot55B,KNpt4B,C;K;IMuthG,wR;MAIqqB,qC;QAAA,wBAAgC,S;MACjsB,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN7t5F,oBM6t/B,CN7t++B,EM6t55B,KN7t4B,C;K;IMguhG,0R;MAIuqB,qC;QAAA,wBAAgC,S;MACnsB,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNtu5F,oBMsu/B,CNtu++B,EMsu55B,KNtu4B,C;K;IMyuhG,4R;MAIyqB,qC;QAAA,wBAAgC,S;MACrsB,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN/u5F,oBM+u/B,CN/u++B,EM+u55B,KN/u4B,C;K;IMkvhG,8R;MAI2qB,qC;QAAA,wBAAgC,S;MACvsB,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNxv5F,oBMwv/B,CNxv++B,EMwv55B,KNxv4B,C;K;IM2vhG,gS;MAI6qB,qC;QAAA,wBAAgC,S;MACzsB,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNjw5F,oBMiw/B,CNjw++B,EMiw55B,KNjw4B,C;K;IMowhG,kS;MAIirB,qC;QAAA,wBAAgC,S;MAC7tB,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN1w5F,oBM0w/B,CN1w++B,EM0w55B,KN1w4B,C;K;IM6whG,oS;MAIirB,qC;QAAA,wBAAgC,S;MAC7tB,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNnx5F,oBMmx/B,CNnx++B,EMmx55B,KNnx4B,C;K;IMsxhG,sS;MAImuB,qC;QAAA,wBAAgC,S;MAC/vB,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN5x5F,oBM4x/B,CN5x++B,EM4x55B,KN5x4B,C;K;IM+xhG,wS;MAIquB,qC;QAAA,wBAAgC,S;MACjwB,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNry5F,oBMqy/B,CNry++B,EMqy55B,KNry4B,C;K;IMwyhG,0S;MAIuuB,qC;QAAA,wBAAgC,S;MACnwB,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GN9y5F,oBM8y/B,CN9y++B,EM8y55B,KN9y4B,C;K;IMizhG,4S;MAIyuB,qC;QAAA,wBAAgC,S;MACrwB,YAAY,sBAAQ,SAAR,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNvz5F,oBMuz/

Ab,C;QAAA,OAAiB,qB;;QA5JvB,U;QA4JM,OA5JgB,aAAtB,+DAAsB,EA4JyC,CA5JzC,EA4J4C,KA5J5C,EA4J
mD,WA5JnD,CAAgD,W;;MA4JvE,W;K;IAGJ,mF;MAIwE,qC;QAAA,wBAAgC,S;MACpG,YAAY,sBAAQ,SAA
R,C;MACL,Q;MAAA,IAAI,UAAS,EAAb,C;QAAA,OAAiB,qB;;QArKvB,U;QAqKM,OArKgB,aAAtB,+DAAsB,
EAqKyC,CArKzC,EAqK4C,KArK5C,EAqKmD,WArKnD,CAAgD,W;;MAqKvE,W;K;IAGJ,gF;MAIqE,qC;QAA
A,wBAAgC,S;MACjG,YAAY,sBAAQ,SAAR,C;MACL,Q;MAAA,IAAI,UAAS,EAAb,C;QAAA,OAAiB,qB;;QA
A2B,iBAAa,QAAQ,CAAR,I;QAAb,eAAwB,gB;QA9K1E,U;QA8KM,OA9KgB,aAAtB,+DAAsB,EAAa,UAAb,E
AAyB,QAAzB,EA8K4D,WA9K5D,CAAgD,W;;MA8KvE,W;K;IAGJ,kF;MAIuE,qC;QAAA,wBAAgC,S;MACnG,
YAAY,sBAAQ,SAAR,C;MACL,Q;MAAA,IAAI,UAAS,EAAb,C;QAAA,OAAiB,qB;;QAA2B,iBAAa,QAAQ,SA
AU,OAAlB,I;QAAb,eAAuC,gB;QAvLzF,U;QAuLM,OAvLgB,aAAtB,+DAAsB,EAAa,UAAb,EAAyB,QAAzB,E
AuL2E,WAvL3E,CAAgD,W;;MAuLvE,W;K;IAGJ,oF;MAI2E,qC;QAAA,wBAAgC,S;MACvG,YAAY,0BAAY,S
AAZ,C;MACL,Q;MAAA,IAAI,UAAS,EAAb,C;QAAA,OAAiB,qB;;QAA2B,iBAAa,QAAQ,SAAU,OAAlB,I;QA
Ab,eAAuC,gB;QAhMzF,U;QAgMM,OAhMgB,aAAtB,+DAAsB,EAAa,UAAb,EAAyB,QAAzB,EAgM2E,WAhM
3E,CAAgD,W;;MAgMvE,W;K;IAGJ,sF;MAIyE,qC;QAAA,wBAAgC,S;MACrG,YAAY,0BAAY,SAAZ,C;MACL
,Q;MAAA,IAAI,UAAS,EAAb,C;QAAA,OAAiB,qB;;QAA2B,iBAAa,QAAQ,CAAR,I;QAAb,eAAwB,gB;QAzM1
E,U;QAyMM,OAzMgB,aAAtB,+DAAsB,EAAa,UAAb,EAAyB,QAAzB,EAyM4D,WAzM5D,CAAgD,W;;MAyM
vE,W;K;IAGJ,qF;MAI0E,qC;QAAA,wBAAgC,S;MACtG,YAAY,0BAAY,SAAZ,C;MACL,Q;MAAA,IAAI,UAA
S,EAAb,C;QAAA,OAAiB,qB;;QAlNvB,U;QAkNM,OAlNgB,aAAtB,+DAAsB,EAkNyC,CAlNzC,EAkN4C,KAlN
5C,EAkNmD,WAlNnD,CAAgD,W;;MAkNvE,W;K;IAGJ,uF;MAI4E,qC;QAAA,wBAAgC,S;MACxG,YAAY,0B
AAY,SAAZ,C;MACL,Q;MAAA,IAAI,UAAS,EAAb,C;QAAA,OAAiB,qB;;QA3NvB,U;QA2NM,OA3NgB,aAAtB
,+DAAsB,EA2NyC,CA3NzC,EA2N4C,KA3N5C,EA2NmD,WA3NnD,CAAgD,W;;MA2NvE,W;K;+EAOJ,yC;MA
QoF,OAAA,KAAM,iBAAQ,SAAR,EAAc,WAAd,C;K;+EAE1F,uC;MAOI,OAAA,KAAM,iBAAQ,SAAR,EAAc,S
AAd,C;K;yFAEV,yC;MAMyF,OAAA,KAAM,sBAAa,SAAb,EAAmB,WAAnB,C;K;+FAE/F,yB;MAAA,oC;MAA
A,gC;MAAA,uC;QAeW,Q;QAAA,IApe4C,mBAAS,CAoerD,C;uBAAkB,oBAAU,iCAAK,CAAL,EAAV,E;UAA
A,YNljBoD,oBMkjBrB,CNljBqB,C;UMkjBtE,OLrjBwD,2BAAL,GAAkB,K;;UKqjBrE,OAAyD,S;QAAhE,W;O;K
AfJ,C;iGAkBA,yB;MAAA,oC;MAAA,uC;QAeI,OAtfmD,mBAAS,CAsf5D,GAAyB,UAAU,iCAAK,CAAL,EAA
V,CAAmB,WAAnB,GNpkBoD,oBMokBV,CNpkBU,CMokB7E,GAA2E,S;O;KAf/E,C;+EAmBA,4B;MAIsE,OA
AA,KAAM,iBAAQ,SAAR,C;K;IAE5E,0F;MAKI,IAAK,cAAc,CAAf,IAAsB,aAAa,CAAnC,IAA0C,cAAa,SAAK,
OAAL,GAAc,MAAd,IAAb,CAA1C,IAAiF,eAAc,KAAM,OAAN,GAAe,MAAf,IAAd,CAArF,C;QACI,OAAO,K;
OAGX,iBAAc,CAAd,UAAsB,MAAtB,U;QACI,IAAI,CAA0B,SAAzB,qBAAK,aAAa,KAAb,IAAL,CAAyB,EAA
O,iBAAM,cAAc,KAAd,IAAN,CAAP,EAAmC,UAAnC,CAA9B,C;UACI,OAAO,K;;MAEf,OAAO,I;K;IAGX,mD;
MAG+C,0B;QAAA,aAAsB,K;MACjE,OAAA,SAAK,OAAL,GAAc,CAAd,IAA2B,SAAR,qBAAK,CAAL,CAAQ,
EAAO,IAAP,EAAa,UAAb,C;K;IAE/B,iD;MAG6C,0B;QAAA,aAAsB,K;MAC/D,OAAA,SAAK,OAAL,GAAc,C
AAd,IAAmC,SAAhB,qBAAK,2BAAL,CAAgB,EAAO,IAAP,EAAa,UAAb,C;K;IAEvC,qD;MAGyD,0B;QAAA,a
AAsB,K;MAC3E,IAAI,CAAC,UAAD,IAAe,6BAAf,IAAiC,0BAArC,C;QACI,OAAY,WAAL,SAAK,EAAAW,MA
AX,C;;QAEZ,OAAO,6BAAkB,CAAlB,EAAqB,MAArB,EAA6B,CAA7B,EAAgC,MAAO,OAAvC,EAA+C,UAA/
C,C;K;IAGf,iE;MAG0E,0B;QAAA,aAAsB,K;MAC5F,IAAI,CAAC,UAAD,IAAe,6BAAf,IAAiC,0BAArC,C;QAC
I,OAAY,aAAL,SAAK,EAAAW,MAAX,EAAmB,UAAnB,C;;QAEZ,OAAO,6BAAkB,UAAlB,EAA8B,MAA9B,EA
AsC,CAAtC,EAAyC,MAAO,OAAhD,EAAwD,UAAxD,C;K;IAGf,mD;MAGuD,0B;QAAA,aAAsB,K;MACzE,IA
AI,CAAC,UAAD,IAAe,6BAAf,IAAiC,0BAArC,C;QACI,OAAY,SAAL,SAAK,EAAS,MAAT,C;;QAEZ,OAAO,6
BAAkB,mBAAS,MAAO,OAAhB,IAAlB,EAA0C,MAA1C,EAAkD,CAAlD,EAAqD,MAAO,OAA5D,EAAoE,UAA
pE,C;K;IAMf,wD;MAQ8D,0B;QAAA,aAAsB,K;MAChF,qBAAe,OAAqB,MAAO,KeinBa,SAAK,OAAjnBlB,EeinB0B,K
AAM,OAjnBhC,C;MemnBd,QAAQ,C;MACR,OAAO,IAAI,cAAJ,IAA8B,SAAR,qBAAK,CAAL,CAAQ,EAAO,iB
AAM,CAAN,CAAP,EAA8B,UAA9B,CAArC,C;QACI,a;;MAEJ,IAAS,mBAAL,SAAK,EAAmB,IAAI,CAAJ,IAA
nB,CAAL,IAAwC,mBAAN,KAAM,EAAmB,IAAI,CAAJ,IAAnB,CAA5C,C;QACI,a;OAEJ,OAAO,8BAAY,CAA
Z,EAAAe,CAAf,CAAkB,W;K;IAG7B,wD;MAQ8D,0B;QAAA,aAAsB,K;MAChF,iBAAiB,SAAK,O;MACtB,kBAA
kB,KAAM,O;MACxB,qBAAe,OAAqB,MAAO,KewoBa,UfxoBb,EewoByB,WfxoBzB,C;Me0oBd,QAAQ,C;MACR,OA
AO,IAAI,cAAJ,IAA+C,SAAzB,qBAAK,aAAa,CAAb,GAAiB,CAAjB,IAAL,CAAyB,EAAO,iBAAM,cAAc,CAA
d,GAAkB,CAAlB,IAAN,CAAP,EAAgD,UAAhD,CAAtD,C;QACI,a;;MAEJ,IAAS,mBAAL,SAAK,EAAmB,aAAa

,CAAb,GAAiB,CAAjB,IAAnB,CAAL,IAAqD,mBAAN,KAAM,EAAmB,cAAc,CAAd,GAAkB,CAAlB,IAAnB,C
AAzD,C;QACI,a;OAEJ,OAAO,8BAAY,aAAa,CAAb,IAAZ,EAA4B,UAA5B,CAAwC,W;K;IAMnD,8D;MAQqD,
0B;QAAA,aAAkB,C;MAAG,0B;QAAA,aAAsB,K;MAMnE,UAAkB,M;MAL3C,IAAI,CAAC,UAAD,IAAe,KAA
M,OAAN,KAAc,CAA7B,IAAkC,6BAAtC,C;QACI,WAAiB,SAAN,KAAM,C;QACjB,ONjtBwF,kB6G3ME,oBvG
45BrE,IuG55BqE,C7G2MF,EMitB7D,UNjtB6D,C;OMotBnE,uBAAX,UAAW,EAAc,CAAd,C;MAAkB,oC;kBAA
3C,gD;QACI,kBAAkB,qBAAI,KAAJ,C;QACR,c;;UjCikXE,U;UAAhB,4BiCjkXQ,KjCikXR,kB;YAAgB,cAAhB,
UiCjkXQ,KjCikXR,S;YAAsB,IiCjkXC,SAAH,UjCikXgB,oBiCjkXhB,CAAG,0BjCikXD,C;cAAwB,aAAO,I;cAA
P,e;;UAC9C,aAAO,K;;;QiClkXH,e;UACI,OAAO,K;;MAEf,OAAO,E;K;IAGX,kE;MASyD,0B;QAAA,aAAkB,2B;
MAAW,0B;QAAA,aAAsB,K;MACxG,IAAI,CAAC,UAAD,IAAe,KAAM,OAAN,KAAc,CAA7B,IAAkC,6BAAtC
,C;QACI,WAAiB,SAAN,KAAM,C;QACjB,ONruB4F,sB6G3MM,oBvGg7BzE,IuGh7ByE,C7G2MN,EMquB7D,U
NruB6D,C;mBMyuBhG,iBAAyB,eAAX,UAAW,EAAa,2BAAb,CAAzB,WAAwD,CAAxD,U;QACI,kBAAkB,qB
AAI,KAAJ,C;QACR,c;;UjCyiXE,Q;UAAhB,wBiCziXQ,KjCyiXR,gB;YAAgB,cAAhB,UiCziXQ,KjCyiXR,O;YA
AsB,IiCziXC,SAAH,UjCyiXgB,oBiCziXhB,CAAG,0BjCyiXD,C;cAAwB,aAAO,I;cAAP,e;;UAC9C,aAAO,K;;;Qi
C1iXH,e;UACI,OAAO,K;;MAGf,OAAO,E;K;IAIX,8E;MAA2G,oB;QAAA,OAAgB,K;MAOrG,UAKA,M;MAXl
B,cAAkB,CAAC,IAAL,GACV,aAAW,gBAAX,UAAW,EAAc,CAAd,CAAX,EAAsC,eAAT,QAAS,EAAa,gBAAb
,CAAtC,CADU,GAGV,SAAW,eAAX,UAAW,EAAa,2BAAb,CAAX,EAAmD,gBAAT,QAAS,EAAc,CAAd,CAA
nD,C;MAEJ,IAAI,iCAAkB,yBAAtB,C;QACkB,yB;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,IAAU,cAAN,KAAM
,EAAc,CAAd,EAAiB,SAAjB,EAAuB,KAAvB,EAA8B,KAAM,OAApC,EAA4C,UAA5C,CAAV,C;YACI,OAAO,
K;;;QAGD,2B;QAAd,OAAc,gBAAd,C;UAAc,2B;UACV,IAAU,kBAAN,KAAM,EAAkB,CAAlB,EAAqB,SAArB,
EAA2B,OAA3B,EAAkC,KAAM,OAAxC,EAAgD,UAAhD,CAAV,C;YACI,OAAO,O;;;MAGnB,OAAO,E;K;IAG
X,qE;MAUsB,UAMA,M;MAflB,IAAI,CAAC,UAAD,IAAe,OAAQ,KAAR,KAAgB,CAAnC,C;QACI,aAAqB,UA
AR,OAAQ,C;QACrB,YAAgB,CAAC,IAAL,GAAW,sBAAQ,MAAR,EAAgB,UAAhB,CAAX,GAA4C,0BAAY,M
AAZ,EAAoB,UAApB,C;QACxD,OAAW,QAAQ,CAAZ,GAAe,IAAf,GAAyB,UAAS,MAAT,C;OAGpC,cAAkB,
CAAC,IAAL,GAAW,aAAW,gBAAX,UAAW,EAAc,CAAd,CAAX,EAA6B,gBAA7B,CAAX,GAAoD,SAAW,eA
AX,UAAW,EAAa,2BAAb,CAAX,EAA0C,CAA1C,C;MAElE,IAAI,6BAAJ,C;QACkB,yB;oBAAd,OAAc,cAAd,C
;UAAc,yB;UACmB,sB;;Yb7sBrB,U;YAAA,Sa6sBa,Ob7sBb,W;YAAhB,OAAgB,gBAAhB,C;cAAgB,2B;cAAM,I
a6sBgC,cb7sBlB,Oa6sBkB,EAAc,CAAd,sBb7sBlB,Oa6sBmD,OAAjC,ab7sBhC,C;gBAAwB,qBAAO,O;gBAAP,u
B;;YAC9C,qBAAO,I;;;Ua4sBC,uC;UACA,IAAI,sBAAJ,C;YACI,OAAO,YAAS,cAAT,C;;;QAGD,2B;oBAAd,OA
Ac,gBAAd,C;UAAc,2B;UACmB,wB;;YbntBrB,U;YAAA,SamtBa,ObntBb,W;YAAhB,OAAgB,gBAAhB,C;cAAg
B,6B;cAAM,IamtBgC,kBbntBlB,SamtBkB,EAAkB,CAAlB,sBbntBlB,SamtBuD,OAArC,abntBhC,C;gBAAwB,uB
AAO,S;gBAAP,uB;;YAC9C,uBAAO,I;;;UaktBC,2C;UACA,IAAI,wBAAJ,C;YACI,OAAO,YAAS,gBAAT,C;;;M
AInB,OAAO,I;K;IAGX,iE;MAY+D,0B;QAAA,aAAkB,C;MAAG,0B;QAAA,aAAsB,K;MACtG,4BAAU,OAAV,E
AAmB,UAAnB,EAA+B,UAA/B,EAAkD,KAAlD,C;K;IAEJ,mE;MAYmE,0B;QAAA,aAAkB,2B;MAAW,0B;QA
AA,aAAsB,K;MAClH,4BAAU,OAAV,EAAmB,UAAnB,EAA+B,UAA/B,EAAkD,IAAlD,C;K;IAEJ,kE;MAWgE,
0B;QAAA,aAAkB,C;MAAG,0B;QAAA,aAAsB,K;MACvG,gB;MAAA,8CAAU,OAAV,EAAmB,UAAnB,EAA+B
,UAA/B,EAAkD,KAAlD,mDAAmE,E;K;IAEvE,sE;MAYoE,0B;QAAA,aAAkB,2B;MAAW,0B;QAAA,aAAsB,K;
MACnH,gB;MAAA,8CAAU,OAAV,EAAmB,UAAnB,EAA+B,UAA/B,EAAkD,IAAlD,mDAAkE,E;K;IAKtE,6D;
MAM4C,0B;QAAA,aAAkB,C;MAAG,0B;QAAA,aAAsB,K;MACnF,OAAW,cAAc,gCAAzB,GACI,sBAAW,mB
AAY,IAAZ,CAAX,EAA8B,UAA9B,EAA0C,UAA1C,CADJ,GNz2B4F,kB6G3ME,oBvGujC5E,IuGvjC4E,C7G2
MF,EM42BpE,UN52BoE,C;K;IM+2BhG,+D;MAQgD,0B;QAAA,aAAkB,C;MAAG,0B;QAAA,aAAsB,K;MACvF
,OAAW,cAAc,gCAAzB,GACI,sBAAQ,MAAR,EAAgB,UAAhB,EAA4B,gBAA5B,EAAoC,UAApC,CADJ,GNx3
B4F,kBM23B1E,MN33B0E,EM23BlE,UN33BkE,C;K;IM83BhG,iE;MAQgD,0B;QAAA,aAAkB,2B;MAAW,0B;Q
AAA,aAAsB,K;MAC/F,OAAW,cAAc,gCAAzB,GACI,0BAAe,mBAAY,IAAZ,CAAf,EAAkC,UAAlC,EAA8C,U
AA9C,CADJ,GNp4BgG,sB6G3MM,oBvGklChF,IuGllCgF,C7G2MN,EMu4BpE,UNv4BoE,C;K;IM04BpG,mE;M
AQoD,0B;QAAA,aAAkB,2B;MAAW,0B;QAAA,aAAsB,K;MACnG,OAAW,cAAc,gCAAzB,GACI,sBAAQ,MAA
R,EAAgB,UAAhB,EAA4B,CAA5B,EAA+B,UAA/B,EAAkD,IAAlD,CADJ,GNn5BgG,sBMs5B1E,MNt5B0E,EM
s5BlE,UNt5BkE,C;K;IMy5BpG,mD;MAM+D,0B;QAAA,aAAsB,K;MACjF,OAAI,yBAAJ,GACI,sBAAQ,KAAR,
UAA4B,UAA5B,KAA2C,CAD/C,GAGI,sBAAQ,KAAR,EAAe,CAAf,EAAkB,gBAAlB,EAA0B,UAA1B,KAAyC,

C;K;IAIjD,kD;MAMsD,0B;QAAA,aAAsB,K;MACxE,6BAAQ,IAAR,UAA2B,UAA3B,KAA0C,C;K;kFAE9C,4B;MAI0E,OAAA,KAAM,yBAAgB,SAAhB,C;K;IAM3C,yE;MACjC,oB;MACA,8B;MACA,oB;MACA,kC;K;IAG8C,sF;MAAA,gE;MAC1C,iBAAqB,E;MACrB,yBAAwC,WAAX,yCAAW,EAAS,CAAT,EAAY,oCAAM,OAAlB,B,C;MACxC,uBAA2B,sB;MAC3B,gBAA0B,I;MAC1B,eAAmB,C;K;0EAEnB,Y;MACI,IAAI,uBAAkB,CAAtB,C;QACI,iBAAY,C;QACZ,gBAAW,I;;QAEX,IAAI,4CAAQ,CAAR,IAAa,uDAAa,yCAA1B,IAAmC,uBAAkB,yCAAM,OAA/D,C;UACI,gBAAW,qCAAyB,iBAAN,yCAAM,CAAa,zB,C;UACjD,uBAAkB,E;;UAElB,IAAlB,YAAkB,iDAAN,yCAAM,EAAa,oBAAb,C;UACjB,IAAI,SAAS,IAAb,C;YACI,IAAlB,QAAkB,iBAAN,yCAAM,EAAa,qCAAb,C;YACjB,IAAI,QAAJ,C;cACI,IAAI,QAAJ,C;gBACI,IAAI,QAAJ,C;kBACI,IAAI,QAAJ,C;oBACI,IAAI,QAAJ,C;sBACI,IAAI,QAAJ,C;wBACI,IAAI,QAAJ,C;0BACI,IAAI,QAAJ,C;4BACI,IAAI,QAAJ,C;8BACI,IAAI,QAAJ,C;gCACI,IAAI,QAAJ,C;kCACI,IAAI,QAAJ,C;oCACI,IAAI,QAAJ,C;sCACI,IAAI,QAAJ,C;wCACI,IAAI,QAAJ,C;0CACI,IAAI,QAAJ,C;4CACI,IAAI,QAAJ,C;8CACI,IAAI,QAAJ,C;gDACI,IAAI,QAAJ,C;kDACI,IAAI,QAAJ,C;oDACI,IAAI,QAAJ,C;sDACI,IAAI,QAAJ,C;wDACI,IAAI,QAAJ,C;0DACI,IAAI,QAAJ,C;4DACI,IAAI,QAAJ,C;8DACI,IAAI,QAAJ,C;gEACI,IAAI,QAAJ,C;kEACI,IAAI,QAAJ,C;oEACI,IAAI,QAAJ,C;sEACI,IAAI,QAAJ,C;wEACI,IAAI,QAAJ,C;0EACI,IAAI,QAAJ,C;4EACI,IAAI,QAAJ,C;8EACI,IAAI,QAAJ,C;gFACI,IAAI,QAAJ,C;kFACI,IAAI,QAAJ,C;oFACI,IAAI,QAAJ,C;sFACI,IAAI,QAAJ,C;wFACI,IAAI,QAAJ,C;0FACI,IAAI,QAAJ,C;4FACI,IAAI,QAAJ,C;8FACI,IAAI,QAAJ,C;gGACI,IAAI,QAAJ,C;kGACI,IAAI,QAAJ,C;oGACI,IAAI,QAAJ,C;sGACI,IAAI,QAAJ,C;wGACI,IAAI,QAAJ,C;0GACI,IAAI,QAAJ,C;4GACI,IAAI,QAAJ,C;8GACI,IAAI,QAAJ,C;gHACI,IAAI,QAAJ,C;kHACI,IAAI,QAAJ,C;oHACI,IAAI,QAAJ,C;sHACI,IAAI,QAAJ,C;wHACI,IAAI,QAAJ,C;0HACI,IAAI,QAAJ,C;4HACI,IAAI,QAAJ,C;8HACI,IAAI,QAAJ,C;gIACI,IAAI,QAAJ,C;kIACI,IAAI,QAAJ,C;oIACI,IAAI,QAAJ,C;sIACI,IAAI,QAAJ,C;wIACI,IAAI,QAAJ,C;0IACI,IAAI,QAAJ,C;4IACI,IAAI,QAAJ,C;8IACI,IAAI,QAAJ,C;gJACI,IAAI,QAAJ,C;kJACI,IAAI,QAAJ,C;oJACI,IAAI,QAAJ,C;sJACI,IAAI,QAAJ,C;wJACI,IAAI,QAAJ,C;0JACI,IAAI,QAAJ,C;4JACI,IAAI,QAAJ,C;8JACI,IAAI,QAAJ,C;gKACI,IAAI,QAAJ,C;kKACI,IAAI,QAAJ,C;oKACI,IAAI,QAAJ,C;sKACI,IAAI,QAAJ,C;wKACI,IAAI,QAAJ,C;0KACI,IAAI,QAAJ,C;4KACI,IAAI,QAAJ,C;8KACI,IAAI,QAAJ,C;gLACI,IAAI,QAAJ,C;kLACI,IAAI,QAAJ,C;oLACI,IAAI,QAAJ,C;sLACI,IAAI,QAAJ,C;wLACI,IAAI,QAAJ,C;0LACI,IAAI,QAAJ,C;4LACI,IAAI,QAAJ,C;8LACI,IAAI,QAAJ,C;gMACI,IAAI,QAAJ,C;kMACI,IAAI,QAAJ,C;oMACI,IAAI,QAAJ,C;sMACI,IAAI,QAAJ,C;wMACI,IAAI,QAAJ,C;0MACI,IAAI,QAAJ,C;4MACI,IAAI,QAAJ,C;8MACI,IAAI,QAAJ,C;gNACI,IAAI,QAAJ,C;kNACI,IAAI,QAAJ,C;oNACI,IAAI,QAAJ,C;sNACI,IAAI,QAAJ,C;wNACI,IAAI,QAAJ,C;0NACI,IAAI,QAAJ,C;4NACI,IAAI,QAAJ,C;8NACI,IAAI,QAAJ,C;gOACI,IAAI,QAAJ,C;kOACI,IAAI,QAAJ,C;oOACI,IAAI,QAAJ,C;sOACI,IAAI,QAAJ,C;wOACI,IAAI,QAAJ,C;0OACI,IAAI,QAAJ,C;4OACI,IAAI,QAAJ,C;8OACI,IAAI,QAAJ,C;gPACI,IAAI,QAAJ,C;kPACI,IAAI,QAAJ,C;oPACI,IAAI,QAAJ,C;sPACI,IAAI,QAAJ,C;wPACI,IAAI,QAAJ,C;0PACI,IAAI,QAAJ,C;4PACI,IAAI,QAAJ,C;8PACI,IAAI,QAAJ,C;gQACI,IAAI,QAAJ,C;kQACI,IAAI,QAAJ,C;oQACI,IAAI,QAAJ,C;sQACI,IAAI,QAAJ,C;wQACI,IAAI,QAAJ,C;0QACI,IAAI,QAAJ,C;4QACI,IAAI,QAAJ,C;8QACI,IAAI,QAAJ,C;gRACI,IAAI,QAAJ,C;kRACI,IAAI,QAAJ,C;oRACI,IAAI,QAAJ,C;sRACI,IAAI,QAAJ,C;wRACI,IAAI,QAAJ,C;0RACI,IAAI,QAAJ,C;4RACI,IAAI,QAAJ,C;8RACI,IAAI,QAAJ,C;gSACI,IAAI,QAAJ,C;kSACI,IAAI,QAAJ,C;oSACI,IAAI,QAAJ,C;sSACI,IAAI,QAAJ,C;wSACI,IAAI,QAAJ,C;0SACI,IAAI,QAAJ,C;4SACI,IAAI,QAAJ,C;8SACI,IAAI,QAAJ,C;gTACI,IAAI,QAAJ,C;kTACI,IAAI,QAAJ,C;oTACI,IAAI,QAAJ,C;sTACI,IAAI,QAAJ,C;wTACI,IAAI,QAAJ,C;0TACI,IAAI,QAAJ,C;4TACI,IAAI,QAAJ,C;8TACI,IAAI,QAAJ,C;gUACI,IAAI,QAAJ,C;kUACI,IAAI,QAAJ,C;oUACI,IAAI,QAAJ,C;sUACI,IAAI,QAAJ,C;wUACI,IAAI,QAAJ,C;0UACI,IAAI,QAAJ,C;4UACI,IAAI,QAAJ,C;8UACI,IAAI,QAAJ,C;gVACI,IAAI,QAAJ,C;kVACI,IAAI,QAAJ,C;oVACI,IAAI,QAAJ,C;sVACI,IAAI,QAAJ,C;wVACI,IAAI,QAAJ,C;0VACI,IAAI,QAAJ,C;4VACI,IAAI,QAAJ,C;8VACI,IAAI,QAAJ,C;gWACI,IAAI,QAAJ,C;kWACI,IAAI,QAAJ,C;oWACI,IAAI,QAAJ,C;sWACI,IAAI,QAAJ,C;wWACI,IAAI,QAAJ,C;0WACI,IAAI,QAAJ,C;4WACI,IAAI,QAAJ,C;8WACI,IAAI,QAAJ,C;gXACI,IAAI,QAAJ,C;kXACI,IAAI,QAAJ,C;oXACI,IAAI,QAAJ,C;sXACI,IAAI,QAAJ,C;wXACI,IAAI,QAAJ,C;0XACI,IAAI,QAAJ,C;4XACI,IAAI,QAAJ,C;8XACI,IAAI,QAAJ,C;gYACI,IAAI,QAAJ,C;kYACI,IAAI,QAAJ,C;oYACI,IAAI,QAAJ,C;sYACI,IAAI,QAAJ,C;wYACI,IAAI,QAAJ,C;0YACI,IAAI,QAAJ,C;4YACI,IAAI,QAAJ,C;8YACI,IAAI,QAAJ,C;gZACI,IAAI,QAAJ,C;kZACI,IAAI,QAAJ,C;oZACI,IAAI,QAAJ,C;sZACI,IAAI,QAAJ,C;wZACI,IAAI,QAAJ,C;0ZACI,IAAI,QAAJ,C;4ZACI,IAAI,QAAJ,C;8ZACI,IAAI,QAAJ,C;gaACI,IAAI,QAAJ,C;kaACI,IAAI,QAAJ,C;oaACI,IAAI,QAAJ,C;saACI,IAAI,QAAJ,C;waACI,IAAI,QAAJ,C;0aACI,IAAI,QAAJ,C;4aACI,IAAI,QAAJ,C;8aACI,IAAI,QAAJ,C;gbACI,IAAI,QAAJ,C;kbACI,IAAI,QAAJ,C;obACI,IAAI,QAAJ,C;sbACI,IAAI,QAAJ,C;wbACI,IAAI,QAAJ,C;0bACI,IAAI,QAAJ,C;4bACI,IAAI,QAAJ,C;8bACI,IAAI,QAAJ,C;gcACI,IAAI,QAAJ,C;kcACI,IAAI,QAAJ,C;ocACI,IAAI,QAAJ,C;scACI,IAAI,QAAJ,C;wcACI,IAAI,QAAJ,C;0cACI,IAAI,QAAJ,C;4cACI,IAAI,QAAJ,C;8cACI,IAAI,QAAJ,C;gdACI,IAAI,QAAJ,C;kdACI,IAAI,QAAJ,C;odACI,IAAI,QAAJ,C;sdACI,IAAI,QAAJ,C;wdACI,IAAI,QAAJ,C;0dACI,IAAI,QAAJ,C;4dACI,IAAI,QAAJ,C;8dACI,IAAI,QAAJ,C;geACI,IAAI,QAAJ,C;keACI,IAAI,QAAJ,C;oeACI,IAAI,QAAJ,C;seACI,IAAI,QAAJ,C;weACI,IAAI,QAAJ,C;0eACI,IAAI,QAAJ,C;4eACI,IAAI,QAAJ,C;8eACI,IAAI,QAAJ,C;gfACI,IAAI,QAAJ,C;kfACI,IAAI,QAAJ,C;ofACI,IAAI,QAAJ,C;sfACI,IAAI,QAAJ,C;wfACI,IAAI,QAAJ,C;0fACI,IAAI,QAAJ,C;4fACI,IAAI,QAAJ,C;8fACI,IAAI,QAAJ,C;ggACI,IAAI,QAAJ,C;kgACI,IAAI,QAAJ,C;ogACI,IAAI,QAAJ,C;sgACI,IAAI,QAAJ,C;wgACI,IAAI,QAAJ,C;0gACI,IAAI,QAAJ,C;4gACI,IAAI,QAAJ,C;8gACI,IAAI,QAAJ,C;ghACI,IAAI,QAAJ,C;khACI,IAAI,QAAJ,C;ohACI,IAAI,QAAJ,C;shACI,IAAI,QAAJ,C;whACI,IAAI,QAAJ,C;0hACI,IAAI,QAAJ,C;4hACI,IAAI,QAAJ,C;8hACI,IAAI,QAAJ,C;giACI,IAAI,QAAJ,C;kiACI,IAAI,QAAJ,C;oiACI,IAAI,QAAJ,C;siACI,IAAI,QAAJ,C;wiACI,IAAI,QAAJ,C;0iACI,IAAI,QAAJ,C;4iACI,IAAI,QAAJ,C;8iACI,IAAI,QAAJ,C;gjACI,IAAI,QAAJ,C;kjACI,IAAI,QAAJ,C;ojACI,IAAI,QAAJ,C;sjACI,IAAI,QAAJ,C;wjACI,IAAI,QAAJ,C;0jACI,IAAI,QAAJ,C;4jACI,IAAI,QAAJ,C;8jACI,IAAI,QAAJ,C;gkACI,IAAI,QAAJ,C;kkACI,IAAI,QAAJ,C;okACI,IAAI,QAAJ,C;skACI,IAAI,QAAJ,C;wkACI,IAAI,QAAJ,C;0kACI,IAAI,QAAJ,C;4kACI,IAAI,QAAJ,C;8kACI,IAAI,QAAJ,C;glACI,IAAI,QAAJ,C;klACI,IAAI,QAAJ,C;olACI,IAAI,QAAJ,C;slACI,IAAI,QAAJ,C;wlACI,IAAI,QAAJ,C;0lACI,IAAI,QAAJ,C;4lACI,IAAI,QAAJ,C;8lACI,IAAI,QAAJ,C;gmACI,IAAI,QAAJ,C;kmACI,IAAI,QAAJ,C;omACI,IAAI,QAAJ,C;smACI,IAAI,QAAJ,C;wmACI,IAAI,QAAJ,C;0mACI,IAAI,QAAJ,C;4mACI,IAAI,QAAJ,C;8mACI,IAAI,QAAJ,C;gnACI,IAAI,QAAJ,C;knACI,IAAI,QAAJ,C;onACI,IAAI,QAAJ,C;snACI,IAAI,QAAJ,C;wnACI,IAAI,QAAJ,C;0nACI,IAAI,QAAJ,C;4nACI,IAAI,QAAJ,C;8nACI,IAAI,QAAJ,C;goACI,IAAI,QAAJ,C;koACI,IAAI,QAAJ,C;ooACI,IAAI,QAAJ,C;soACI,IAAI,QAAJ,C;woACI,IAAI,QAAJ,C;0oACI,IAAI,QAAJ,C;4oACI,IAAI,QAAJ,C;8oACI,IAAI,QAAJ,C;gpACI,IAAI,QAAJ,C;kpACI,IAAI,QAAJ,C;opACI,IAAI,QAAJ,C;spACI,IAAI,QAAJ,C;wpACI,IAAI,QAAJ,C;0pACI,IAAI,QAAJ,C;4pACI,IAAI,QAAJ,C;8pACI,IAAI,QAAJ,C;gqACI,IAAI,QAAJ,C;kqACI,IAAI,QAAJ,C;oqACI,IAAI,QAAJ,C;sqACI,IAAI,QAAJ,C;wqACI,IAAI,QAAJ,C;0qACI,IAAI,QAAJ,C;4qACI,IAAI,QAAJ,C;8qACI,IAAI,QAAJ,C;grACI,IAAI,QAAJ,C;krACI,IAAI,QAAJ,C;orACI,IAAI,QAAJ,C;srACI,IAAI,QAAJ,C;wrACI,IAAI,QAAJ,C;0rACI,IAAI,QAAJ,C;4rACI,IAAI,QAAJ,C;8rACI,IAAI,QAAJ,C;gsACI,IAAI,QAAJ,C;ksACI,IAAI,QAAJ,C;osACI,IAAI,QAAJ,C;ssACI,IAAI,QAAJ,C;wsACI,IAAI,QAAJ,C;0sACI,IAAI,QAAJ,C;4sACI,IAAI,QAAJ,C;8sACI,IAAI,QAAJ,C;gtACI,IAAI,QAAJ,C;ktACI,IAAI,QAAJ,C;otACI,IAAI,QAAJ,C;stACI,IAAI,QAAJ,C;wtACI,IAAI,QAAJ,C;0tACI,IAAI,QAAJ,C;4tACI,IAAI,QAAJ,C;8tACI,IAAI,QAAJ,C;guACI,IAAI,QAAJ,C;kuACI,IAAI,QAAJ,C;ouACI,IAAI,QAAJ,C;suACI,IAAI,QAAJ,C;wuACI,IAAI,QAAJ,C;0uACI,IAAI,QAAJ,C;4uACI,IAAI,QAAJ,C;8uACI,IAAI,QAAJ,C;gvACI,IAAI,QAAJ,C;kvACI,IAAI,QAAJ,C;ovACI,IAAI,QAAJ,C;svACI,IAAI,QAAJ,C;wvACI,IAAI,QAAJ,C;0vACI,IAAI,QAAJ,C;4vACI,IAAI,QAAJ,C;8vACI,IAAI,QAAJ,C;gwACI,IAAI,QAAJ,C;kwACI,IAAI,QAAJ,C;owACI,IAAI,QAAJ,C;swACI,IAAI,QAAJ,C;wwACI,IAAI,QAAJ,C;0wACI,IAAI,QAAJ,C;4wACI,IAAI,QAAJ,C;8wACI,IAAI,QAAJ,C;gxACI,IAAI,QAAJ,C;kxACI,IAAI,QAAJ,C;oxACI,IAAI,QAAJ,C;sxACI,IAAI,QAAJ,C;wxACI,IAAI,QAAJ,C;0xACI,IAAI,QAAJ,C;4xACI,IAAI,QAAJ,C;8xACI,IAAI,QAAJ,C;gyACI,IAAI,QAAJ,C;kyACI,IAAI,QAAJ,C;oyACI,IAAI,QAAJ,C;syACI,IAAI,QAAJ,C;wyACI,IAAI,QAAJ,C;0yACI,IAAI,QAAJ,C;4yACI,IAAI,QAAJ,C;8yACI,IAAI,QAAJ,C;gzACI,IAAI,QAAJ,C;kzACI,IAAI,QAAJ,C;ozACI,IAAI,QAAJ,C;szACI,IAAI,QAAJ,C;wzACI,IAAI,QAAJ,C;0zACI,IAAI,QAAJ,C;4zACI,IAAI,QAAJ,C;8zACI,IAAI,QAAJ,C;g0ACI,IAAI,QAAJ,C;k0ACI,IAAI,QAAJ,C;o0ACI,IAAI,QAAJ,C;s0ACI,IAAI,QAAJ,C;w0ACI,IAAI,QAAJ,C;00ACI,IAAI,QAAJ,C;40ACI,IAAI,QAAJ,C;80ACI,IAAI,QAAJ,C;g1ACI,IAAI,QAAJ,C;k1ACI,IAAI,QAAJ,C;o1ACI,IAAI,QAAJ,C;s1ACI,IAAI,QAAJ,C;w1ACI,IAAI,QAAJ,C;01ACI,IAAI,QAAJ,C;41ACI,IAAI,QAAJ,C;81ACI,IAAI,QAAJ,C;g2ACI,IAAI,QAAJ,C;k2ACI,IAAI,QAAJ,C;o2ACI,IAAI,QAAJ,C;s2ACI,IAAI,QAAJ,C;w2ACI,IAAI,QAAJ,C;02ACI,IAAI,QAAJ,C;42ACI,IAAI,QAAJ,C;82ACI,IAAI,QAAJ,C;g3ACI,IAAI,QAAJ,C;k3ACI,IAAI,QAAJ,C;o3ACI,IAAI,QAAJ,C;s3ACI,IAAI,QAAJ,C;w3ACI,IAAI,QAAJ,C;03ACI,IAAI,QAAJ,C;43ACI,IAAI,QAAJ,C;83ACI,IAAI,QAAJ,C;g4ACI,IAAI,QAAJ,C;k4ACI,IAAI,QAAJ,C;o4ACI,IAAI,QAAJ,C;s4ACI,IAAI,QAAJ,C;w4ACI,IAAI,QAAJ,C;04ACI,IAAI,QAAJ,C;44ACI,IAAI,QAAJ,C;84ACI,IAAI,QAAJ,C;g5ACI,IAAI,QAAJ,C;k5ACI,IAAI,QAAJ,C;o5ACI,IAAI,QAAJ,C;s5ACI,IAAI,QAAJ,C;w5ACI,IAAI,QAAJ,C;05ACI,IAAI,QAAJ,C;45ACI,IAAI,QAAJ,C;85ACI,IAAI,QAAJ,C;g6ACI,IAAI,QAAJ,C;k6ACI,IAAI,QAAJ,C;o6ACI,IAAI,QAAJ,C;s6ACI,IAAI,QAAJ,C;w6ACI,IAAI,QAAJ,C;06ACI,IAAI,QAAJ,C;46ACI,IAAI,QAAJ,C;86ACI,IAAI,QAAJ,C;g7ACI,IAAI,QAAJ,C;k7ACI,IAAI,QAAJ,C;o7ACI,IAAI,QAAJ,C;s7ACI,IAAI,QAAJ,C;w7ACI,IAAI,QAAJ,C;07ACI,IAAI,QAAJ,C;47ACI,IAAI,QAAJ,C;87ACI,IAAI,QAAJ,C;g8ACI,IAAI,QAAJ,C;k8ACI,IAAI,QAAJ,C;o8ACI,IAAI,QAAJ,C;s8ACI,IAAI,QAAJ,C;w8ACI,IAAI,QAAJ,C;08ACI,IAAI,QAAJ,C;48ACI,IAAI,QAAJ,C;88ACI,IAAI,QAAJ,C;g9ACI,IAAI,QAAJ,C;k9ACI,IAAI,QAAJ,C;o9ACI,IAAI,QAAJ,C;s9ACI,IAAI,QAAJ,C;w9ACI,IAAI,QAAJ,C;09ACI,IAAI,QAAJ,C;49ACI,IAAI,QAAJ,C;89ACI,IAAI,QAAJ,C;g+ACI,IAAI,QAAJ,C;k+ACI,IAAI,QAAJ,C;o+ACI,IAAI,QAAJ,C;s+ACI,IAAI,QAAJ,C;w+ACI,IAAI,QAAJ,C;0+ACI,IAAI,QAAJ,C;4+ACI,IAAI,QAAJ,C;8+ACI,IAAI,QAAJ,C;g/ACI,IAAI,QAAJ,C;k/ACI,IAAI,QAAJ,C;o/ACI,IAAI,QAAJ,C;s/ACI,IAAI,QAAJ,C;w/ACI,IAAI,QAAJ,C;0/ACI,IAAI,QAAJ,C;4/ACI,IAAI,QAAJ,C;8/ACI,IAAI,QAAJ,C;ggACI,IAAI,QAAJ,C;kgACI,IAAI,QAAJ,C;ogACI,IAAI,QAAJ,C;sgACI,IAAI,QAAJ,C;wgACI,IAAI,QAAJ,C;0gACI,IAAI,QAAJ,C;4gACI,IAAI,QAAJ,C;8gACI,IAAI,QAAJ,C;ghACI,IAAI,QAAJ,C;khACI,IAAI,QAAJ,C;ohACI,IAAI,QAAJ,C;shACI,IAAI,QAAJ,C;whACI,IAAI,QAAJ,C;0hACI,IAAI,QAAJ,C;4hACI,IAAI,QAAJ,C;8hACI,IAAI,QAAJ,C;giACI,IAAI,QAAJ,C;kiACI,IAAI,QAAJ,C;oiACI,IAAI,QAAJ,C;siACI,IAAI,QAAJ,C;wiACI,IAAI,QAAJ,C;0iACI,IAAI,QAAJ,C;4iACI,IAAI,QAAJ,C;8iACI,IAAI,QAAJ,C;gjACI,IAAI,QAAJ,C;kjACI,IAAI,QAAJ,C;ojACI,IAAI,QAAJ,C;sjACI,IAAI,QAAJ,C;wjACI,IAAI,QAAJ,C;0jACI,IAAI,QAAJ,C;4jACI,IAAI,QAAJ,C;8jACI,IAAI,QAAJ,C;gkACI,IAAI,QAAJ,C;kkACI,IAAI,QAAJ,C;okACI,IAAI,QAAJ,C;skACI,IAAI,QAAJ,C;wkACI,IAAI,QAAJ,C;0kACI,IAAI,QAAJ,C;4kACI,IAAI,QAAJ,C;8kACI,IAAI,QAAJ,C;glACI,IAAI,QAAJ,C;klACI,IAAI,QAAJ,C;olACI,IAAI,QAAJ,C;slACI,IAAI,QAAJ,C;wlACI,IAAI,QAAJ,C;0lACI,IAAI,QAAJ,C;4lACI,IAAI,QAAJ,C;8lACI,IAAI,QAAJ,C;gmACI,IAAI,QAAJ,C;kmACI,IAAI,QAAJ,C;omACI,IAAI,QAAJ,C;smACI,IAAI,QAAJ,C;wmACI,IAAI,QAAJ,C;0mACI,IAAI,QAAJ,C;4mACI,IAAI,QAAJ,C;8mACI,IAAI,QAAJ,C;gnACI,IAAI,QAAJ,C;knACI,IAAI,QAAJ,C;onACI,IAAI,QAAJ,C;snACI,IAAI,QAAJ,C;wnACI,IAAI,QAAJ,C;0nACI,IAAI,QAAJ,C;4nACI,IAAI,QAAJ,C;8nACI,IAAI,QAAJ,C;goACI,IAAI,QAAJ,C;koACI,IAAI,QAAJ,C;ooACI,IAAI,QAAJ,C;soACI,IAAI,QAAJ,C;woACI,IAAI,QAAJ,C;0oACI,IAAI,QAAJ,C;4oACI,IAAI,QAAJ,C;8oACI,IAAI,QAAJ,C;gpACI,IAAI,QAAJ,C;kpACI,IAAI,QAAJ,C;opACI,IAAI,QAAJ,C;spACI,IAAI,QAAJ,C;wpACI,IAAI,QAAJ,C;0pACI,IAAI,QAAJ,C;4pACI,IAAI,QAAJ,C;8pACI,IAAI,QAAJ,C;gqACI,IAAI,QAAJ,C;kqACI,IAAI,QAAJ,C;oqACI,IAAI,QAAJ,C;sqACI,IAAI,QAAJ,C;wqACI,IAAI,QAAJ,C;0qACI,IAAI,QAAJ,C;4qACI,IAAI,QAAJ,C;8qACI,IAAI,QAAJ,C;grACI,IAAI,QAAJ,C;krACI,IAAI,QAAJ,C;orACI,IAAI,QAAJ,C;srACI,IAAI,QAAJ,C;wrACI,IAAI,QAAJ,C;0rACI,IAAI,QAAJ,C;4rACI,IAAI,QAAJ,C;8rACI,IAAI,QAAJ,C;gsACI,IAAI,QAAJ,C;ksACI,IAAI,QAAJ,C;osACI,IAAI,QAAJ,C;ssACI,IAAI,QAAJ,C;wsACI,IAAI,QAAJ,C;0sACI,IAAI,QAAJ,C;4sACI,IAAI,QAAJ,C;8sACI,IAAI,QAAJ,C;gtACI,IAAI,QAAJ,C;ktACI,IAAI,QAAJ,C;otACI,IAAI,QAAJ,C;stACI,IAAI,QAAJ,C;wtACI,IAAI,QAAJ,C;0tACI,IAAI,QAAJ,C;4tACI,IAAI,QAAJ,C;8tACI,IAAI,QAAJ,C;guACI,IAAI,QAAJ,C;kuACI,IAAI,QAAJ,C;ouACI,IAAI,QAAJ,C;suACI,IAAI,QAAJ,C;wuACI,IAAI,QAAJ,C;0uACI,IAAI,QAAJ,C;4uACI,IAAI,QAAJ,C;8uACI,IAAI,QAAJ,C;gvACI,IAAI,QAAJ,C;kvACI,IAAI,QAAJ,C;ovACI,IAAI,QAAJ,C;svACI,IAAI,QAAJ,C;wvACI,IAAI,QAAJ,C;0vACI,IAAI,QAAJ,C;4vACI,IAAI,QAAJ,C;8vACI,IAAI,QAAJ,C;gwACI,IAAI,QAAJ,C;kwACI,IAAI,QAAJ,C;owACI,IAAI,QAAJ,C;swACI,IAAI,QAAJ,C;wwACI,IAAI,QAAJ,C;0wACI,IAAI,QAAJ,C;4wACI,IAAI,QAAJ,C;8wACI,IAAI,QAAJ,C;gxACI,IAAI,QAAJ,C;kxACI,IAAI,QAAJ,C;oxACI,IAAI,QAAJ,C;sxACI,IAAI,QAAJ,C;wxACI,IAAI,QAAJ,C;0xACI,IAAI,QAAJ,C;4xACI,IAAI,QAAJ,C;8xACI,IAAI,QAAJ,C;gyACI,IAAI,QAAJ,C;kyACI,IAAI,QAAJ,C;oyACI,IAAI,QAAJ,C;syACI,IAAI,QAAJ,C;wyACI,IAAI,QAAJ,C;0yACI,IAAI,QAAJ,C;4yACI,IAAI,QAAJ,C;8yACI,IAAI,QAAJ,C;gzACI,IAAI,QAAJ,C;kzACI,IAAI,QAAJ,C;ozACI,IAAI,QAAJ,C;szACI,IAAI,QAAJ,C;wzACI,IAAI,QAAJ,C;0zACI,IAAI,QAAJ,C;4zACI,IAAI,QAAJ,C;8zACI,IAAI,QAAJ,C;g0ACI,IAAI,QAAJ,C;k0ACI,IAAI,QAAJ,C;o0ACI,IAAI,QAAJ,C;s0ACI,IAAI,QAAJ,C;w0ACI,IAAI,QAAJ,C;00ACI,IAAI,QAAJ,C;40ACI,IAAI,QAAJ,C;80ACI,IAAI,QAAJ,C;g1ACI,IAAI,QAAJ,C;k1ACI,IAAI,QAAJ,C;o1ACI,IAAI,QAAJ,C;s1ACI,IAAI,QAAJ,C;w1ACI,IAAI,QAAJ,C;01ACI,IAAI,QAAJ,C;41ACI,IAAI,QAAJ,C;81ACI,IAAI,QAAJ,C;g2ACI,IAAI,QAAJ,C;k2ACI,IAAI,QAAJ,C;o2ACI,IAAI,QAAJ,C;s2ACI,IAAI,QAAJ,C;w2ACI,IAAI,QAAJ,C;02ACI,IAAI,QAAJ,C;42ACI,IAAI,QAAJ,C;82ACI,IAAI,QAAJ,C;g3ACI,IAAI,QAAJ,C;k3ACI,IAAI,QAAJ,C;o3ACI,IAAI,QAAJ,C;s3ACI,IAAI,QAAJ,C;w3ACI,IAAI,QAAJ,C;03ACI,IAAI,QAAJ,C;43ACI,IAAI,QAAJ,C;83ACI,IAAI,QAAJ,C;g4ACI,IAAI,QAAJ,C;k4ACI,IAAI,QAAJ,C;o4ACI,IAAI,QAAJ,C;s4ACI,IAAI,QAAJ,C;w4ACI,IAAI,QAAJ,C;04ACI,IAAI,QAAJ,C;44ACI,IAAI,QAAJ,C;84ACI,IAAI,QAAJ,C;g5ACI,IAAI,QAAJ,C;k5ACI,IAAI,QAAJ,C;o5ACI,IAAI,QAAJ,C;s5ACI,IAAI,QAAJ,C;w5ACI,IAAI,QAAJ,C;05ACI,IAAI,QAAJ,C;45ACI,IAAI,QAAJ,C;85ACI,IAAI,QAAJ,C;g6ACI,IAAI,QAAJ,C;k6ACI,IAAI,QAAJ,C;o6ACI,IAAI,QAAJ,C;s6ACI,IAAI,QAAJ,C;w6ACI,IAAI,QAAJ,C;06ACI,IAAI,QAAJ,C;46ACI,IAAI,QAAJ,C;86ACI,IAAI,QAAJ,C;g7ACI,IAAI,QAAJ,C;k7ACI,IAAI,QAAJ,C;o7ACI,IAAI,QAAJ,C;s7ACI,IAAI,QAAJ,C;w7ACI,IAAI,QAAJ,C;07ACI,IAAI,QAAJ,C;47ACI,IAAI,QAAJ,C;87ACI,IAAI,QAAJ,C;g8ACI,IAAI,QAAJ,C;k8ACI,IAAI,QAAJ,C;o8ACI,IAAI,QAAJ,C;s8ACI,IAAI,QAAJ,C;w8ACI,IAAI,QAAJ,C;08ACI,IAAI,QAAJ,C;48ACI,IAAI,QAAJ,C;88ACI,IAAI,QAAJ,C;g9ACI,IAAI,QAAJ,C;k9ACI,IAAI,QAAJ,C;o9ACI,IAAI,QAAJ,C;s9ACI,IAAI,QAAJ,C;w9ACI,IAAI,QAAJ,C;09ACI,IAAI,QAAJ,C;49ACI,IAAI,QAAJ,C;89ACI,IAAI,QAAJ,C;g+ACI,IAAI,QAAJ,C;k+ACI,IAAI,QAAJ,C;o+ACI,IAAI,QAAJ,C;s+ACI,IAAI,QAAJ,C;w+ACI,IAAI,QAAJ,C;0+ACI,IAAI,QAAJ,C;4+ACI,IAAI,QAAJ,C;8+ACI,IAAI,QAAJ,C;g/ACI,IAAI,QAAJ,C;k/ACI,IAAI,QAAJ,C;o/ACI,IAAI,QAAJ,C;s/ACI,IAAI,QAAJ,C;w/ACI,IAAI,QAAJ,C;0/ACI,IAAI,QAAJ,C;4/ACI,IAAI,QAAJ,C;8/ACI,IAAI,QAAJ,C;ggACI,IAAI,QAAJ,C;kgACI,IAAI,QAAJ,C;ogACI,IAAI,QAAJ,C;sgACI,IAAI,QAAJ,C;wgACI,IAAI,QAAJ,C;0gACI,IAAI,QAAJ,C;4gACI,IAAI,QAAJ,C;8gACI,IAAI,QAAJ,C;ghACI,IAAI,QAAJ,C;khACI,IAAI,QAAJ,C;ohACI,IAAI,QAAJ,C;shACI,IAAI,QAAJ,C;whACI,IAAI,QAAJ,C;0hACI,IAAI,QAAJ,C;4hACI,IAAI,QAAJ,C;8hACI,IAAI,QAAJ,C;giACI,IAAI,QAAJ,C;kiACI,IAAI,QAAJ,C;oiACI,IAAI,QAAJ,C;siACI,IAAI,QAAJ,C;wiACI,IAAI,QAAJ,C;0iACI,IAAI,QAAJ,C;4iACI,IAAI,QAAJ,C;8iACI,IAAI,QAAJ,C;gjACI,IAAI,QAAJ,C;kjACI,IAAI,QAAJ,C;ojACI,IAAI,QAAJ,C;sjACI,IAAI,QAAJ,C;wjACI,IAAI,QAAJ,C;0jACI,IAAI,QAAJ,C;4jACI,IAAI,QAAJ,C;8jACI,IAAI,QAAJ,C;gkACI,IAAI,QAAJ,C;kkACI,IAAI,QAAJ,C;okACI,IAAI,QAAJ,C;skACI,IAAI,QAAJ,C;wkACI,IAAI,QAAJ,C;0kACI,IAAI,QAAJ,C;4kACI,IAAI,QAAJ,C;8kACI,IAAI,QAAJ,C;glACI,IAAI,QAAJ,C;klACI,IAAI,QAAJ,C;olACI,IAAI,QAAJ,C;slACI,IAAI,QAAJ,C;wlACI,IAAI,QAAJ,C;0lACI,IAAI,QAAJ,C;4lACI,IAAI,QAAJ,C;8lACI,IAAI,QAAJ,C;gmACI,IAAI,QAAJ,C;kmACI,IAAI,QAAJ,C;omACI,IAAI,QAAJ,C;smACI,IAAI,QAAJ,C;wmACI,IAAI,QAAJ,C;0mACI,IAAI,QAAJ,C;4mACI,IAAI,QAAJ,C;8mACI,IAAI,QAAJ,C;gnACI,IAAI,QAAJ,C;knACI,IAAI,QAAJ,C;onACI,IAAI,QAAJ,C;snACI,IAAI,QAAJ,C;wnACI,IAAI,QAAJ,C;0nACI,IAAI,QAAJ,C;4nACI,IAAI,QAAJ,C;8nACI,IAAI,QAAJ,C;goACI,IAAI,QAAJ,C;koACI,IAAI,QAAJ,C;ooACI,IAAI,QAAJ,C;soACI,IAAI,QAAJ,C;woACI,IAAI,QAAJ,C;0oACI,IAAI,QAAJ,C;4oACI,IAAI,QAAJ,C;8oACI,IAAI,QAAJ,C;gpACI,IAAI,QAAJ,C;kpACI,IAAI,QAAJ,C;opACI,IAAI,QAAJ,C;spACI,IAAI,QAAJ,C;wpACI,IAAI,QAAJ,C;0pACI,IAAI,QAAJ,C;4pACI,IAAI,QAAJ,C;8pACI,IAAI,QAAJ,C;gqACI,IAAI,QAAJ,C;kqACI,IAAI,QAAJ,C;oqACI,IAAI,QAAJ,C;sqACI,IAAI,QAAJ,C;wqACI,IAAI,QAAJ,C;0qACI,IAAI,QAAJ,C;4qACI,IAAI,QAAJ,C;8qACI,IAAI,QAAJ,C;grACI,IAAI,QAAJ,C;krACI,IAAI,QAAJ,C;orACI,IAAI,QAAJ,C;srACI,IAAI,QAAJ,C;wrACI,IAAI,QAAJ

QACI,OAAO,kBAAQ,KAAR,C;OAGX,IAAI,cAAS,KAAb,C;QAAoB,OAAO,I;MAC3B,IAAI,qBAAgB,aAAhB,I
AAiC,SAAK,OAAL,KAAe,KAAM,OAA1D,C;QAAkE,OAAO,K;MAEvD,uB;MAAlB,aAAU,CAAV,gB;QACI,I
AAI,qBAAK,CAAL,MAAW,iBAAM,CAAN,CAAf,C;UACI,OAAO,K;;MAIf,OAAO,I;K;IAGX,oC;MAU+C,QA
AM,SAAN,C;aAC3C,M;UAD2C,OACjC,I;aACV,O;UAF2C,OAEhC,K;gBACH,MAAM,gCAAyB,mDAAgD,SA
AzE,C;;K;IAGlB,0C;MAUsD,QAAM,SAAN,C;aAClD,M;UADkD,OACxC,I;aACV,O;UAFkD,OAEvC,K;gBAFu
C,OAG1C,I;;K;I8Kr8CZ,sB;MAAA,0B;MAII,aAC+B,e;MAC/B,cACgC,e;MAChC,WAC6B,e;MAC7B,YAC8B,e;
MAC9B,eACiC,e;MACjC,YAC8B,gB;MAC9B,aAC+B,gB;MAC/B,YAC8B,gB;MAC9B,aAC+B,gB;MAC/B,eAC
iC,gB;MACjC,iBACmC,gB;MACnC,qBAEuC,gB;MACvC,sBAEwC,gB;MACxC,kBACoC,gB;MACpC,cACgC,g
B;MAChC,iBACmC,gB;MACnC,iBACmC,gB;MACnC,iBACmC,gB;MACnC,YAC8B,gB;MAC9B,aAC+B,iB;M
AC/B,aAC+B,iB;MAC/B,uBACyC,iB;MACzC,wBAC0C,iB;MAC1C,sBACwC,iB;MACxC,uBACyC,iB;MACzC,
wBAC0C,iB;MAC1C,sBACwC,iB;MACxC,cACgC,iB;MAChC,oBACsC,iB;MACtC,cACgC,iB;MAChC,gBACkC
,iB;MAClC,aAC+B,iB;MAC/B,mBACqC,iB;MACrC,YAC8B,iB;MAC9B,UAC4B,iB;MAC5B,mBACqC,iB;MAC
rC,gBACkC,iB;MAClC,mBACqC,iB;MACrC,sBACwC,iB;MAExC,sBAGwC,gB;MAExC,uBAGyC,gB;K;;;IA7F7
C,kC;MAAA,iC;QAAA,gB;OAAA,0B;K;;;;;;;;;2FCuE0C,Y;MAAQ,oCAAa,IAAb,C;K;IAiBpB,yC;MAAqB,kB;K;
mIAC3C,Y;MACmD,OAAA,UAAM,YAAN,aAAkB,CAAlB,C;K;mIACnD,Y;MACmD,OAAA,UAAM,YAAN,a
AAkB,CAAlB,C;K;mIACnD,Y;MACmD,OAAA,UAAM,YAAN,aAAkB,CAAlB,C;K;mIACnD,Y;MACmD,OAA
A,UAAM,YAAN,aAAkB,CAAlB,C;K;mIACnD,Y;MACmD,OAAA,UAAM,YAAN,aAAkB,CAAlB,C;K;mIACn
D,Y;MACmD,OAAA,UAAM,YAAN,aAAkB,CAAlB,C;K;mIACnD,Y;MACmD,OAAA,UAAM,YAAN,aAAkB,C
AAlB,C;K;mIACnD,Y;MACmD,OAAA,UAAM,YAAN,aAAkB,CAAlB,C;K;mIACnD,Y;MACmD,OAAA,UAA
M,YAAN,aAAkB,CAAlB,C;K;qIACnD,Y;MACmD,OAAA,UAAM,YAAN,aAAkB,EAAlB,C;K;gDAEnD,Y;MA
MoC,OAAA,UAAM,YAAY,iBAAQ,CAAR,EAAW,UAAM,YAAY,KAA7B,C;K;;;6EhEjH9D,yB;MAAA,iD;MA
AA,4B;QAI4C,kBAAM,SAAN,C;O;KAJ5C,C;+EAMA,yB;MAAA,gD;MAAA,oC;QAI+D,kBAAM,SAAN,EAAY
,MAAZ,C;O;KAJ/D,C;+EAMA,yB;MAAA,oC;MAAA,qC;QAIqE,sBAAM,SAAN,EAAY,OAAZ,C;O;KAJrE,C;ItI
Y4B,4B;MAmBxB,gC;MAnB6C,0B;MAW7B,UAEA,MAFA,EAGA,M;MALZ,IiIjC8D,IjIiC9D,C;QACI,IAAI,kB
AAJ,C;UACQ,mB;UAAJ,IAAI,sEAAsB,SAAtB,EAAJ,C;YAAqC,MAAM,sBAAiB,YAAF,+CAAf,C;;UAEvC,qB;
UAAJ,IAAI,0EAAuB,UAAvB,EAAJ,C;YAAuC,MAAM,sBAAiB,YAAF,gDAAf,C;UACzC,qB;UAAJ,IAAI,kEA
A+B,mBAA/B,CAAJ,C;YAAwD,MAAM,sBAAiB,YAAF,mCAAf,C;;Q;mFAZlD,Y;MAAQ,kCAAa,CAAb,C;K;+
FACU,Y;MAAQ,OAAA,eAAS,QAAT,GAAqB,C;K;qCACvE,Y;MAA0B,QADwB,eAAS,QAAT,GAAqB,CAC7C
,MAAqB,C;K;sCAC/C,Y;MAA2B,QAFuB,eAAS,QAAT,GAAqB,CAE5C,MAAqB,C;K;yFACxB,Y;MAAQ,OAA
I,kBAAJ,mF;K;IAahC,8B;MAAA,kC;MACI,YAC4B,gB;MAE5B,gBACgC,iBAAiB,UAAjB,C;MAChC,4BAAsC,
uC;K;mDAEtC,yC;MAGI,2BAAoB,KAApB,EAA2B,UAA3B,EAAuC,UAAvC,C,C;K;iJAM8B,yB;MAAA,6C;MAA
A,iD;MAAA,4B;QAAQ,sD;O;KAAR,C;iJAIC,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,sD;O;KAAR,C;iJAU
E,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,sD;O;KAAR,C;mJAKF,yB;MAAA,6C;MAAA,iD;MAAA,4B;QA
AQ,uD;O;KAAR,C;mJAIC,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,uD;O;KAAR,C;mJAUE,yB;MAAA,6C;
MAAA,iD;MAAA,4B;QAAQ,uD;O;KAAR,C;mJAKH,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,uD;O;KAAR
,C;mJAIC,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,uD;O;KAAR,C;mJAUE,yB;MAAA,6C;MAAA,iD;MAA
A,4B;QAAQ,uD;O;KAAR,C;yIAKR,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,kD;O;KAAR,C;yIAIC,yB;MA
AA,6C;MAAA,iD;MAAA,4B;QAAQ,kD;O;KAAR,C;yIAUE,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,kD;O;
KAAR,C;yIAKH,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,kD;O;KAAR,C;yIAIC,yB;MAAA,6C;MAAA,iD;
MAAA,4B;QAAQ,kD;O;KAAR,C;yIAUE,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,kD;O;KAAR,C;qIAKL,y
B;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,gD;O;KAAR,C;qIAIC,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,g
D;O;KAAR,C;qIAUE,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,gD;O;KAAR,C;mIAKJ,yB;MAAA,6C;MAA
A,iD;MAAA,4B;QAAQ,+C;O;KAAR,C;mIAIC,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,+C;O;KAAR,C;mIA
UE,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,+C;O;KAAR,C;uDAK9B,iB;MAK+C,OAAM,WAAN,KAAM,y
C;K;uDAErD,iB;MAKgD,OAAM,aAAN,KAAM,yC;K;uDAEtD,iB;MASkD,OAAM,aAAN,KAAM,yC;K;wDAGx
D,iB;MAKgD,OAAM,WAAN,KAAM,0C;K;wDAEtD,iB;MAKiD,OAAM,aAAN,KAAM,0C;K;wDAEvD,iB;MA
SmD,OAAM,aAAN,KAAM,0C;K;wDAGzD,iB;MAKgD,OAAM,WAAN,KAAM,0C;K;wDAEtD,iB;MAKiD,OA
AM,aAAN,KAAM,0C;K;wDAEvD,iB;MASmD,OAAM,aAAN,KAAM,0C;K;mDAGzD,iB;MAK2C,OAAM,WA

AN,KAAM,qC;K;mDAEjD,iB;MAK4C,OAAM,aAAN,KAAM,qC;K;mDAElD,iB;MAS8C,OAAM,aAAN,KAAM,
qC;K;mDAGpD,iB;MAK2C,OAAM,WAAN,KAAM,qC;K;mDAEjD,iB;MAK4C,OAAM,aAAN,KAAM,qC;K;mD
AElD,iB;MAS8C,OAAM,aAAN,KAAM,qC;K;iDAGpD,iB;MAKyC,OAAM,WAAN,KAAM,mC;K;iDAE/C,iB;M
AK0C,OAAM,aAAN,KAAM,mC;K;iDAEhD,iB;MAS4C,OAAM,aAAN,KAAM,mC;K;gDAGlD,iB;MAKwC,OA
AM,WAAN,KAAM,kC;K;gDAE9C,iB;MAKyC,OAAM,aAAN,KAAM,kC;K;gDAE/C,iB;MAS2C,OAAM,aAAN,
KAAM,kC;K;iDAEjD,iB;;QAY4C,OACxC,cAAc,KAAd,EAAiC,KAAjC,C;;QACF,+C;UACE,MAAM,6BAAyB,s
CAAmC,KAAnC,OAAzB,EAAsE,CAAtE,C;;UAHkC,O;;K;0DAM5C,iB;;QAMqD,OACjD,cAAc,KAAd,EAAiC,I
AAjC,C;;QACF,+C;UACE,MAAM,6BAAyB,0CAAuC,KAAvC,OAAzB,EAA0E,CAA1E,C;;UAH2C,O;;K;uDAM
rD,iB;;QAWmD,OAC/C,cAAc,KAAd,EAAiC,KAAjC,C;;QACF,+C;UAFiD,OAG/C,I;;UAH+C,O;;K;gEAMnD,iB
;;QAK4D,OACxD,cAAc,KAAd,EAAiC,IAAjC,C;;QACF,+C;UAF0D,OAGxD,I;;UAHwD,O;;K;;;IA/XhE,0C;MA
AA,yC;QAAA,wB;OAAA,kC;K;oCAwYA,Y;MAC6C,kBAAY,YAAD,aAAX,EAzZK,eAAS,QAAT,GAAqB,CAy
Z1B,C;K;qCAE7C,iB;MAiBW,Q;MATH,IAAA,IAAK,aAAL,C;QACI,IAAI,KAAM,WAAN,IAAqB,IAAK,WAA
L,KAAkB,KAAM,WAAxB,gBAAoC,CAA7D,C;UACI,OAAO,I;;UAEP,MAAM,gCAAyB,2EAAzB,C;WAEd,IA
AA,KAAM,aAAN,C;QAAsB,OAAO,K;MAI7B,KA7a0C,eAAS,QAAT,GAAqB,CA6a/D,OAA0B,KA7agB,WAAS
,QAAT,GAAqB,CA6a/D,E;QACI,aAAa,IAAK,QAAL,KAAa,KAAM,QAAnB,C;QAET,uB;UACI,iCAA0B,MAA1
B,C;;UAEA,kCAA2B,MAA3B,C;aAGZ,IAAA,IAAK,eAAL,C;QACI,mCAAqB,IAAK,QAA1B,EAAiC,KAAM,Q
AAvC,C;;QAEA,mCAAqB,KAAM,QAA3B,EAAkC,IAAK,QAAvC,C;MAbR,W;K;gDAiBJ,kC;MAGW,Q;MAFP,
kBAAkB,cAAc,UAAd,C;MAClB,mBAAmB,eAAa,WAAb,C;MACZ,IAAI,8EAAsC,mBAAtC,CAAAJ,C;QACH,yB
AAyB,oBAAa,cAAc,WAAd,CAAb,C;QACzB,uBAAgB,cAAc,YAAd,MAA8B,kBAA9B,CAAhB,C;;QAEA,wBA
A8B,WAAb,YAAa,yBAAsB,UAAtB,CAA9B,C;;MAJJ,W;K;sCAQJ,iB;MAMuD,wBAAS,KAAD,aAAR,C;K;uCA
EvD,iB;MAQe,UAUJ,M;MAXP,IAAI,iBAAJ,C;QAEQ,cAAS,CAAT,C;UAAc,MAAM,gCAAyB,mEAAzB,C;aAC
pB,YAAQ,CAAR,C;UAAa,W;;UACL,OAAC,IAAD,a;QAHZ,W;OAMJ,IAAI,UAAS,CAAb,C;QAAgB,OAAO,qC
;MAEvB,YAAY,Y;MACZ,aAAa,mCAAQ,KAAR,E;MACN,IAAI,kBAAJ,C;QACH,IAAI,yEAAJ,C;UAEI,yBAAg
B,MAAhB,C;;UAEA,IAAI,sCAAS,KAAT,IAAkB,KAAlB,CAAJ,C;YACI,mCAA0B,MAA1B,C;;YAEA,aAAa,cA
Ac,KAAd,C;YACb,eAAe,eAAQ,cAAc,MAAd,CAAR,C;YACf,mBAAmB,oCAAS,KAAT,E;YACnB,kBAAkB,iB
AAe,cAAc,sCAAW,KAAX,EAAd,CAAf,C;YAClB,IAAI,4CAAe,KAAf,IAAwB,MAAxB,KAAkC,gBAAgB,YAA
hB,gBAAgC,CAAtE,C;cACI,0BAA6B,WAAZ,WAAY,EAAS,8BAAa,UAAb,CAAT,CAA7B,C;;cAEA,SAAI,YA
AM,WAAN,KAAM,CAAN,EAAmB,WAAN,KAAM,CAAnB,IAA0B,CAA9B,GAAiC,yCAAjC,GAA+C,qD;;;;;Q
AK3D,IAAI,sCAAS,KAAT,IAAkB,KAAlB,CAAJ,C;UACI,0BAAwB,WAAP,MAAO,EAAS,8BAAa,UAAb,CAA
T,CAAxB,C;;UAEA,SAAI,YAAM,WAAN,KAAM,CAAN,EAAmB,WAAN,KAAM,CAAnB,IAA0B,CAA9B,GA
AiC,yCAAjC,GAA+C,qD;;;MAvBvD,a;K;uCA4BJ,iB;MASI,eAAqB,WAAN,KAAM,C;MACrB,IAAa,QAAT,KA
AuB,KAA3B,C;QACI,OAAO,mBAAM,QAAN,C;OAGX,WAAW,kB;MACX,aAAa,sBAAS,IAAT,IAAiB,K;MA
C9B,OAAc,aAAP,MAAO,EAAW,IAAX,C;K;qCAGlB,iB;MAQe,Q;MADX,IAAI,UAAS,CAAb,C;QAEQ,sB;UA
AgB,gD;aAChB,sB;UAAgB,4D;;UACR,MAAM,gCAAyB,4DAAzB,C;QAHlB,W;OAMJ,IAAI,kBAAJ,C;QACI,O
AAO,gBAAgB,qCAAQ,KAAR,EAAhB,C;;QAEP,IAAI,iBAAJ,C;UACI,OAAO,mBAAa,WAAN,KAAM,CAAb,C
;QAEX,aAAa,qCAAQ,KAAR,E;QAEb,IAAI,kEAAgC,mBAAhC,CAAJ,C;UACI,UAAU,cAAc,sBAAS,oCAAS,K
AAT,EAAT,CAAd,0BAA0C,KAA1C,E;UACV,OAAO,gBAAgB,cAAc,MAAd,MAAwB,GAAxB,CAAhB,C;SAE
X,OAAO,iBAAiB,MAAjB,C;;K;qCAIf,iB;MAOI,eAAqB,WAAN,KAAM,C;MACrB,IAAa,QAAT,KAAuB,KAAv
B,IAAgC,aAAY,CAAhD,C;QACI,OAAO,iBAAI,QAAJ,C;OAGX,WAAW,kB;MACX,aAAa,sBAAS,IAAT,IAAiB
,K;MAC9B,OAAc,aAAP,MAAO,EAAW,IAAX,C;K;oCAGlB,iB;MAEI,kBAAkB,SAAM,IAAK,cAAX,EAAwB,K
AAM,cAA9B,C;MAClB,OAAO,IAAK,kBAAS,WAAT,CAAL,GAA6B,KAAM,kBAAS,WAAT,C;K;oCAG9C,Y;
MACmC,oCAAW,C;K;oCAE9C,Y;MACmC,oCAAW,C;K;oCAE9C,Y;MACmC,+BAAY,yCAAS,WAArB,KAAi
C,wBAAY,qDAAa,WAAzB,C;K;kCAEpE,Y;MACiC,QAAC,iB;K;yFAGC,Y;MAAQ,OAAI,iBAAJ,GAAmB,IAA
D,aAAlB,GAA6B,I;K;yCAExE,iB;MACI,kBAAkB,IAAK,WAAL,KAAkB,KAAM,WAAxB,C;MAClB,IAAI,yBA
Ac,CAAd,IAAmB,CAAA,WAAY,QAAZ,GAAwB,CAAxB,MAA6B,CAApD,C;QACI,OAAO,IAAK,WAAS,iBA
AU,KAAM,WAAhB,C;MAEzB,QAAQ,CA1lBsC,eAAS,QAAT,GAAqB,CA0lB3D,KAAyB,KA1lBa,WAAS,QAA
T,GAAqB,CA0lB3D,K;MACR,OAAW,iBAAJ,GAAkB,CAAC,CAAD,IAAlB,GAA0B,C;K;uHAMrC,kB;MAeI,O
AAO,OAAO,gBAAP,EAAoB,mBAApB,EAAoC,qBAApC,EAAsD,qBAAtD,EAAwE,yBAAxE,C;K;uHAGX,kB;

MAcI,OAAO,OAAO,iBAAP,EAAqB,qBAArB,EAAuC,qBAAvC,EAAyD,yBAAzD,C;K;uHAGX,kB;MAaI,OAA
O,OAAO,mBAAP,EAAuB,qBAAvB,EAAyC,yBAAzC,C;K;uHAGX,kB;MAYI,OAAO,OAAO,mBAAP,EAAuB,y
BAAvB,C;K;0FAKP,Y;MAAQ,OAAI,iBAAJ,GAAkB,CAAlB,GAA0B,6CAAe,EAAf,EAAmB,Q;K;4FAIrD,Y;M
AAQ,OAAI,iBAAJ,GAAkB,CAAlB,GAA0B,+CAAiB,EAAjB,EAAqB,Q;K;4FAIvD,Y;MAAQ,OAAI,iBAAJ,GA
AkB,CAAlB,GAA0B,+CAAiB,EAAjB,EAAqB,Q;K;gGAIvD,Y;MACI,sB;QADI,OACY,C;WAChB,wB;QAFI,OA
EY,cAAc,wCAAQ,IAAR,EAAd,CAA6B,Q;;QAFzC,OAGK,wCAAQ,UAAR,EAAuB,Q;K;0CAMxC,gB;MAQiB,
UAAN,M;MAAM,sB;MACT,iBAAA,yCAAS,WAAT,E;QAA4B,SAAP,wCAAO,kB;WAC5B,iBAAA,qDAAa,W
AAb,E;QAAgC,SAAP,wCAAO,kB;;QAG5B,6BAAoB,YAAM,WAA1B,EAAsC,kBAAtC,EAAmD,IAAnD,C;;MA
LR,a;K;wCAUJ,gB;MAUiB,UAAN,M;MAAM,sB;MACT,iBAAA,yCAAS,WAAT,E;;WACA,iBAAA,qDAAa,W
AAb,E;;;QACQ,+BAAoB,YAApB,EAA2B,kBAA3B,EAAwC,IAAxC,C;MAHZ,a;K;uCAOJ,gB;MAUI,OAAa,WA
Ab,oBAAO,IAAP,CAAa,4BAAyD,Q;K;kFAKhD,Y;MAAQ,6D;K;mFAKP,Y;MAAQ,8D;K;qFAKN,Y;MAAQ,gE
;K;qFAKR,Y;MAAQ,gE;K;0FAKH,Y;MAAQ,qE;K;0FAKR,Y;MAAQ,qE;K;yFAKT,Y;MAAQ,oE;K;uFASrC,Y;
MAAQ,2D;K;wFAQR,Y;MAAQ,4D;K;0FAQR,Y;MAAQ,8D;K;0FAQR,Y;MAAQ,8D;K;+FAQR,Y;MACI,OAA
W,uBAAgB,eAApB,GAAgC,YAAhC,GAA2C,4D;K;+FAatD,Y;MAAQ,mE;K;8FAYR,Y;MAEW,Q;MADP,YAA
Y,Y;MAER,uB;QAAe,Y;WACf,8C;;WACA,+C;;;QACQ,qBAAc,KAAd,C;MAJZ,W;K;2CAUR,Y;MASuC,8B;K;
4CAEvC,Y;MASwC,+B;K;kCAExC,Y;MAuBwC,Q;MAAA,sB;MACpC,qB;QAD8B,OACxB,I;WACN,iBAAA,y
CAAS,WAAT,E;QAF8B,OAET,U;WACrB,iBAAA,qDAAa,WAAb,E;QAH8B,OAGL,W;;QAErB,iBAAiB,iB;Q6
HzhBF,gBAAhB,sB;Q7H2hBK,e;UAAgB,yBAAO,EAAP,C;QACF,YAAd,kB;QA9RD,WAAO,iB;QAAP,YAAoB,
oB;QAApB,cAAoC,sB;QAApC,cAAsD,sB;QAAtD,kBAAwE,0B;QAsS/D,0B;QAPJ,cAAc,iB;QACd,eAAe,UAAS
,C;QACxB,iBAAiB,YAAW,C;QAC5B,iBAAiB,YAAW,CAAX,IAAgB,gBAAe,C;QAChD,iBAAiB,C;QACjB,IA
AI,OAAJ,C;UACI,yBAAO,IAAP,CAAa,gBAAO,GAAP,C;UACb,+B;SAEJ,IAAI,aAAa,YAAY,cAAc,UAA1B,CA
Ab,CAAJ,C;UACI,IAAI,6DAAe,CAAnB,C;YAAsB,yBAAO,EAAP,C;UACtB,yBAAO,KAAP,CAAc,gBAAO,GA
AP,C;SAElB,IAAI,eAAe,eAAe,YAAY,OAA3B,CAAf,CAAJ,C;UACI,IAAI,6DAAe,CAAnB,C;YAAsB,yBAAO,E
AAP,C;UACtB,yBAAO,OAAP,CAAgB,gBAAO,GAAP,C;SAEpB,IAAI,UAAJ,C;UACI,IAAI,6DAAe,CAAnB,C;
YAAsB,yBAAO,EAAP,C;UAElB,gBAAW,CAAX,IAAgB,OAAhB,IAA2B,QAA3B,IAAuC,UAAvC,C;YACI,mC
AAiB,OAAjB,EAA0B,WAA1B,EAAuC,CAAvC,EAA0C,GAA1C,EAA2D,KAA3D,C;eACJ,mBAAe,OAAf,C;YA
CI,mCAAiB,cAAc,OAAd,IAAjB,EAA0C,cAAc,OAAxD,EAAmE,CAAnE,EAAsE,IAAtE,EAAwF,KAAxF,C;eAC
J,mBAAe,IAAf,C;YACI,mCAAiB,cAAc,IAAd,IAAjB,EAAsC,cAAc,IAApD,EAA2D,CAA3D,EAA8D,IAA9D,EA
AgF,KAAhF,C;;YAEA,yBAAO,WAAP,CAAoB,gBAAO,IAAP,C;SAGhC,IAAI,cAAc,aAAa,CAA/B,C;UAAkC,y
BAAO,CAAP,EAAU,EAAV,CAAe,gBAAO,EAAP,C;QAvC/B,OOx1B3B,SsHoUqC,W;;K;4C7HikB5C,yE;MACI
,yBAAO,KAAP,C;MACA,IAAI,eAAc,CAAlB,C;QACI,yBAAO,EAAP,C;QACA,iBAAuC,WAAtB,UAAW,WAA
W,EAAS,cAAT,EAAyB,EAAzB,C;QACR,sB;;UsB5zBzB,Q;UAAA,OAAQ,WAAR,etB4zBc,UsB5zBd,CAAQ,C
AAR,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,ItB2zBiD,UsB3zBnC,YtB2zBU,UsB3zBV,YAAK,KAAL,EtB2z
BmC,MAAM,EsB3zBvD,C;cACI,qBAAO,K;cAAP,uB;;UAGR,qBAAO,E;;;QtBuzBC,oBAAoB,qBAAuC,CAAvC
,I;QAEhB,KAAC,SAAD,IAAc,gBAAgB,CAA9B,C;UAAmC,8BAAY,UAAZ,EAAwB,CAAxB,EAA2B,aAA3B,C;
;UAC3B,8BAAY,UAAZ,EAAwB,CAAxB,EAA2B,CAAC,CAAC,gBAAgB,CAAhB,IAAD,IAAsB,CAAtB,IAAD,
IAA4B,CAA5B,IAA3B,C;OAGhB,yBAAO,IAAP,C;K;0CAGJ,0B;MAgBwC,wB;QAAA,WAAgB,C;MIn9BxD,IA
AI,EJo9BQ,YAAY,CIp9BpB,CAAJ,C;QACI,cJm9ByB,oD;QIl9BzB,MAAM,gCAAyB,OAAQ,WAAjC,C;OJm9B
N,aAAa,sBAAS,IAAT,C;MACb,IAAW,WAAP,MAAO,CAAX,C;QAAyB,OAAO,MAAO,W;MACvC,OAAO,sB
AAsB,MAAtB,EAAuC,eAAT,QAAS,EAAa,EAAb,CAAvC,IAAgE,UAAL,IAAK,C;K;qCAI3E,Y;M6HvmBuB,gB
AAhB,sB;M7HqnBH,IAAI,iBAAJ,C;QAAkB,yBAAO,EAAP,C;MAClB,yBAAO,IAAP,C;MAC4B,YAAd,kB;MA
xWP,YAAO,kB;MAAP,cAAqB,sB;MAArB,cAAuC,sB;MAAvC,kBAAyD,0B;MAyW5D,cACY,K;MACZ,IAAI,i
BAAJ,C;QAEI,wB;OAEJ,eAAe,oB;MACf,iBAAiB,YAAW,CAAX,IAAgB,gBAAe,C;MAChD,iBAAiB,YAAW,C
AAX,KAAiB,cAAc,QAA/B,C;MACjB,IAAI,QAAJ,C;QACI,yBAAO,OAAP,CAAc,gBAAO,EAAP,C;OAElB,IAA
I,UAAJ,C;QACI,yBAAO,OAAP,CAAgB,gBAAO,EAAP,C;OAEpB,IAAI,eAAe,CAAC,QAAD,IAAa,CAAC,UAA
7B,CAAJ,C;QACI,mCAAiB,OAAjB,EAA0B,WAA1B,EAAuC,CAAvC,EAA0C,GAA1C,EAA2D,IAA3D,C;OAp
BuB,OOx7B5B,SsHoUqC,W;K;;;;;kC7H5YhD,Y;MAAA,c;MAuBiD,2D;MAvBjD,a;K;gCAAA,iB;MAAA,2IAuBi
D,gDAvBjD,G;K;IA8hCA,qC;MAIW,Q;MAAA,IAAI,6DAAJ,C;QACH,uBAAgB,4BAAiC,oBAAL,SAAK,CAAj

C,EAA2C,IAA3C,yCAAhB,C;;QAES,oBAAT,8BAAS,EAAW,IAAX,C;MAHb,W;K;IAMJ,uC;MAII,kBAAkB,4B
AA4B,SAA5B,0CAAiE,IAAjE,C;MAClB,IAAa,WAAD,aAAR,yDAAsB,WAAtB,CAAJ,C;QACI,OAAO,gBAAg
B,4BAA4B,SAA5B,EAAkC,IAAlC,yCAAhB,C;;QAEP,aAAa,sBAAoB,SAApB,EAA0B,IAA1B,0C;QACb,OAAO
,iBAAwB,WAAP,MAAO,yBAAsB,UAAtB,CAAxB,C;;K;IAIf,uC;MAaW,Q;MAHP,gBAAgB,oBAAoB,SAApB,E
AA0B,IAA1B,yC;MIviChB,IAAI,CJwiCI,CAAW,QAAV,SAAU,CIxiCnB,C;QACI,cJuiC0B,+B;QItiC1B,MAAM,
gCAAyB,OAAQ,WAAjC,C;OJuiCV,YAAsB,YAAV,SAAU,C;MACf,IAAI,sEAAqB,SAArB,CAAJ,C;QACH,uBA
AgB,KAAhB,C;;QAEA,aAAwE,YAA3D,oBAAoB,SAApB,EAA0B,IAA1B,0CAA2D,C;QACxE,kCAA2B,MAA3
B,C;;MAJJ,W;K;IAgBuB,oC;MAAQ,oE;K;IAOP,sC;MAAQ,sE;K;IAWN,sC;MAAQ,sE;K;IAQV,qC;MAAQ,qE;K
;IAOP,uC;MAAQ,uE;K;IAWN,uC;MAAQ,uE;K;IAQX,qC;MAAQ,qE;K;IAOP,uC;MAAQ,uE;K;IAWN,uC;MAA
Q,uE;K;IAQhB,gC;MAAQ,gE;K;IAOP,kC;MAAQ,kE;K;IAWN,kC;MAAQ,kE;K;IAQX,gC;MAAQ,gE;K;IAOP,k
C;MAAQ,kE;K;IAWN,kC;MAAQ,kE;K;IAQb,8B;MAAQ,8D;K;IAOP,gC;MAAQ,gE;K;IAWN,gC;MAAQ,gE;K;I
AQZ,6B;MAAQ,6D;K;IAOP,+B;MAAQ,+D;K;IAWN,+B;MAAQ,+D;K;yEAG/B,+B;MAIqE,8BAAW,SAAX,C;
K;2EAErE,+B;MAUwE,8BAAW,SAAX,C;K;IAIxE,yC;MACI,aAAa,KAAM,O;MACnB,IAAI,WAAU,CAAd,C;Q
AAiB,MAAM,gCAAyB,qBAAzB,C;MACvB,YAAY,C;MACZ,aAAa,gCAAS,K;MACtB,qBAAqB,U;MACrB,QA
AM,iBAAM,KAAN,CAAN,C;aACI,E;aAAA,E;UAAY,qB;UAAZ,K;;MAEJ,cAAc,QAAQ,C;MACtB,iBAAiB,WA
AiB,aAAN,KAAM,EAAW,EAAX,C;MAE9B,cAAU,KAAV,C;QACI,MAAM,gCAAyB,eAAzB,C;WACV,qBAA
M,KAAN,MAAgB,EAAhB,C;QACI,IAAI,mCAAW,MAAf,C;UAAuB,MAAM,+B;QAC7B,sBAAsB,K;QACtB,sB
AAsB,K;QACtB,eAA8B,I;QAC9B,OAAO,QAAQ,MAAf,C;UACI,IAAI,iBAAM,KAAN,MAAgB,EAApB,C;YAC
I,IAAI,mBAAmB,mCAAW,MAAlC,C;cAA0C,MAAM,+B;YAChD,kBAAkB,I;YAClB,Q;WAEkB,iBAAe,K;UA+
EjD,QAHgC,U;UAIhC,Y;YAAO,eAhFqB,KAgFjB,O;YAAJ,S;cAAc,SAAU,YAhFH,KAgFG,YAAK,CAAL,E;cA
AV,OAhFqC,CAAM,kBAAK,EAAL,CAAN,qCAAkB,2C;;;YAgFnC,a;;UAhF7B,gBAAgB,KiBvlCgE,WjBmqClF,
UiBnqCkF,EjBwqCrF,CiBxqCqF,C;UjBwlChF,IAAI,SuBrhCgC,YAAU,CvBqhC9C,C;YAAyB,MAAM,+B;UAC/
B,gBAAS,SAAU,OAAnB,I;UACqB,cAAU,K;UsBzrCpC,U;UAAA,IAAI,WAAS,CAAT,IAAc,WAAS,iBtByrCP,K
sBzrCO,CAA3B,C;YAAA,StByrCoB,KsBzrCkB,YAAI,OAAJ,C;;YtByrCO,MAAM,gCAAyB,qCAAzB,C;;UAA9
C,qB;UACA,qB;UACA,WAAW,sBAAsB,QAAtB,EAAgC,eAAhC,C;UACX,IAAI,YAAY,IAAZ,IAAoB,yBAAY,I
AAZ,MAAxB,C;YAA0C,MAAM,gCAAyB,yCAAzB,C;UAChD,WAAW,I;UACX,eAAyB,WAAV,SAAU,EAAQ,
EAAR,C;UACzB,IAAI,+CAAgC,WAAW,CAA/C,C;YACI,YAAY,SiBjmCgE,WjBimC5C,CiBjmC4C,EjBimCzC,
QiBjmCyC,C;YjBkmC5E,4BAA2C,aAAjC,0BAA0B,KAA1B,CAAiC,EAAW,IAAX,CAA3C,C;YACA,4BAAmD,
aAAX,SAA9B,SiBtmCmD,WjBsmC/B,QiBtmC+B,CjBsmCrB,CAAW,EAAW,IAAX,CAAnD,C;;YAEA,4BAA+C
,aAArC,0BAA0B,SAA1B,CAAqC,EAAW,IAAX,CAA/C,C;;;aAIZ,c;QACI,MAAM,+B;;QACV,IAAM,cAAN,KA
AM,EAAc,KAAd,EAAqB,cAArB,EAAqC,CAArC,EQ/xCH,MAAO,KR+xCmD,SAAS,KAAT,IQ/xCnD,ER+xCm
E,cAAe,OQ/xClF,CR+xCJ,EAA4G,IAA5G,CAAN,C;UACI,SAAS,gCAAS,S;;UAIlB,iBAA8B,I;UAC9B,iBAAiB,
K;UACjB,kBAAkB,CAAC,O;UACnB,IAAI,WAAW,iBAAM,KAAN,MAAgB,EAA3B,IAAwC,QAAN,KAAM,C
AAN,KAAgB,EAAtD,C;YACI,cAAc,I;YACd,IAAI,oCAAW,uBAAX,EAAW,MAAX,CAAJ,C;cAAyB,MAAM,g
CAAyB,eAAzB,C;WAEnC,OAAO,QAAQ,MAAf,C;YACI,IAAI,cAAc,WAAlB,C;cA8CZ,UA7CwC,K;cA8CxC,Y
;gBAAO,mBA9CiB,KA8Cb,O;gBAAJ,W;kBAAc,SA9C4B,UA8ClB,YA9CP,KA8CO,YAAK,GAAL,EA9CkB,M
AAM,E;;;gBA8Cd,iB;;cA9CzB,QA+CT,G;aA7CK,aAAa,I;YACS,mBAAe,K;YA0CjD,UAHgC,Y;YAIhC,Y;cAA
O,mBA3CqB,KA2CjB,O;cAAJ,W;gBAAc,WAAU,YA3CH,KA2CG,YAAK,GAAL,E;gBAAV,SA3CqC,CAAM,k
BAAK,EAAL,CAAN,uCAAkB,oBAAM,E;;;cA2CzC,iB;;YA3C7B,kBAAgB,KiB5nCgE,WjBmqClF,YiBnqCkF,Ej
BwqCrF,GiBxqCqF,C;YjB6nChF,IAAI,WuB1jCgC,YAAU,CvB0jC9C,C;cAAyB,MAAM,+B;YAC/B,gBAAS,WA
AU,OAAnB,I;YACqB,mBAAe,K;YAuChD,UAHgC,Y;YAIhC,Y;cAAO,mBAxCoB,KAwChB,O;cAAJ,W;gBAAc,
WAAU,YAxCJ,KAwCI,YAAK,GAAL,E;gBAAV,SAxCoC,CAAM,kBAAK,GAAL,CAAN,mC;;;cAwChB,iB;;YA
xC7B,eAAe,KiB/nCiE,WjBmqClF,YiBnqCkF,EjBwqCrF,GiBxqCqF,C;YjBgoChF,gBAAS,QAAS,OAAlB,I;YAC
A,aAAW,wBAAwB,QAAxB,C;YACX,IAAI,cAAY,IAAZ,IAAoB,2BAAY,MAAZ,MAAxB,C;cAA0C,MAAM,gC
AAyB,yCAAzB,C;YAChD,aAAW,M;YACX,iBAAyB,WAAV,WAAU,EAAQ,EAAR,C;YACzB,IAAI,aAAW,CA
Af,C;cACI,cAAY,WiBtoCgE,WjBsoC5C,CiBtoC4C,EjBsoCzC,UiBtoCyC,C;cjBuoC5E,4BAAyB,aAAT,OAAN,O
AAM,CAAS,EAAW,MAAX,CAAzB,C;cACA,4BAAmD,aAAX,SAA9B,WiB3oCmD,WjB2oC/B,UiB3oC+B,CjB
2oCrB,CAAW,EAAW,MAAX,CAAnD,C;cACA,IAAI,QAAQ,MAAZ,C;gBAAoB,MAAM,gCAAyB,mCAAzB,C;;

cAE1B,4BAA6B,aAAT,OAAV,WAAU,CAAS,EAAW,MAAX,CAA7B,C;;;;;MAKhB,OAAW,UAAJ,GAAiB,MA
AD,aAAhB,GAA6B,M;K;IAIxC,0C;MACI,aAAa,KAAM,O;MACnB,iBAAiB,C;MACjB,IAAI,SAAS,CAAT,IAA
c,YAAY,IAAZ,mBAAM,CAAN,EAAlB,C;QAAoC,+B;OAChC,YAAC,SAAS,UAAT,IAAD,IAAwB,E;MAAxB,S
;QAA4D,gBAA7B,yBAAkB,iBAAN,KAAM,CAAlB,C;QAA6B,c;;UU4ThD,U;UADhB,IAAI,wCAAsB,mBAA1B
,C;YAAqC,aAAO,I;YAAP,e;WACrB,6B;UAAhB,OAAgB,gBAAhB,C;YAAgB,2B;YAAM,IAAI,CV5T4C,CAAa,
kBAAK,EAAL,CAAb,oCU4TjC,OV5TiC,EU4ThD,C;cAAyB,aAAO,K;cAAP,e;;UAC/C,aAAO,I;;;QV7TyD,iB;O
AAhE,S;QAEI,OAAW,iBAAM,CAAN,MAAY,EAAhB,sD;OAGX,OAAiB,WAAN,KAAM,EAAW,GAAX,CAAV
,GAAyC,OAAR,QAAN,KAAM,EAAK,CAAL,CAAQ,CAAzC,GAA6D,OAAN,KAAM,C;K;IAKxE,0D;MAII,QA
HgC,U;MAIhC,OAAO,IAAI,gBAAJ,IAJqC,SAIvB,CAAU,iCAAK,CAAL,EAAV,CAArB,C;QAAyC,a;;MAJzC,O
iBnqC4F,oBjBmqClF,UiBnqCkF,EjBwqCrF,CiBxqCqF,C;K;IjBqqChG,qD;MACI,QAAQ,U;MACR,OAAO,IAAI,
gBAAJ,IAAc,UAAU,iCAAK,CAAL,EAAV,CAArB,C;QAAyC,a;;MACzC,OAAO,C;K;;;;;IAmBX,8B;MAA+C,q
CAAQ,OAAR,E;K;IAC/C,+B;MAAgD,2CAAS,OAAT,E;K;IAEhD,sC;MAAiD,oBAAS,sBAAgB,CAAhB,CAAT,
C;K;IACjD,wC;MAAmD,oBAAU,uBAAiB,CAAjB,CAAD,yBAAuB,CAAvB,EAAT,C;K;IACnD,oD;MAAoE,oB
AAU,sBAAgB,CAAhB,CAAD,yBAAsB,iBAAtB,EAAT,C;K;IACpE,0C;MACI,IAAI,sEAAqB,SAArB,CAAJ,C;Q
AAA,OACI,gBAAgB,KAAhB,C;;QADJ,OAGI,iBAAiB,cAAc,KAAd,CAAjB,C;;K;IAGR,4C;MACI,IAAI,kEAAg
C,mBAAhC,CAAJ,C;QAAA,OACI,gBAAgB,cAAc,MAAd,CAAhB,C;;QADJ,OAGI,iBAAwB,WAAP,MAAO,yB
AAsB,UAAtB,CAAxB,C;;K;IuMl3CR,8B;MAEgD,QAAM,SAAN,M;aAC5C,a;UAD4C,OAChB,I;aAC5B,c;UAF4
C,OAEf,I;aAC7B,c;UAH4C,OAGf,I;aAC7B,S;UAJ4C,OAIpB,G;aACxB,S;UAL4C,OAKpB,G;aACxB,O;UAN4C,
OAMtB,G;aACtB,M;UAP4C,OAOvB,G;gBnMuEwB,MAAM,6BAA8B,CmMtEnE,mBAAgB,SnMsEmD,YAA9B,
C;;K;ImMnEvD,4C;MACwE,QAAM,SAAN,C;aACpE,I;UADoE,6C;aAEpE,I;UAFoE,8C;aAGpE,I;UAHoE,8C;aA
IpE,G;UAJoE,yC;aAKpE,G;UALoE,yC;aAMpE,G;UANoE,uC;aAOpE,G;UAPoE,sC;gBAQ5D,MAAM,gCAAyB,
uCAAoC,SAA7D,C;;K;IAGlB,yD;MAGQ,KAAC,eAAD,C;QAEQ,IADE,OACF,Q;UAHZ,sC;;UAIoB,MAAM,gC
AAyB,4EAAqD,OAArD,CAAzB,C;;QAIlB,QAAM,OAAN,C;eACI,E;YATZ,uC;eAUY,E;YAVZ,yC;eAWY,E;YA
XZ,yC;kBAYoB,MAAM,gCAAyB,yDAAkC,OAAlC,CAAzB,C;;;K;IC5F9B,4B;K;;;MC4BI,kC;;IAXA,gC;MAAA
,oC;MAM0B,2BAAc,iC;K;8CACpC,Y;MAAkC,OAAA,iCAAoB,W;K;6CADhC,Y;MAAA,yC;K;;;IAN1B,4C;MA
AA,2C;QAAA,0B;OAAA,oC;K;IAWA,gC;MAAA,oC;K;;;IAAA,4C;MAAA,2C;QAAA,0B;OAAA,oC;K;;IAKJ,o
B;K;qCAcI,oB;MAK8D,4BAAiB,IAAjB,EAAuB,QAAvB,C;K;sCAE9D,oB;MAK+D,wBAAM,QAAD,aAAL,C;K
;sCAG/D,Y;MAMqC,QAAC,iBAAa,a;K;yCAEnD,Y;MAMwC,OAAA,iBAAa,a;K;;4EAIzD,yB;MAAA,4C;MAA
A,mC;QAQuE,MAAM,WAAM,0BAAN,C;O;KAR7E,C;mFAUA,yB;MAAA,4C;MAAA,mC;QAQsE,MAAM,WA
AM,0BAAN,C;O;KAR5E,C;IAY8B,4C;MAAiD,mB;MAAhD,gB;MAAoB,4B;K;4CAC/C,Y;MAAsC,OAAA,SAA
K,aAAL,cAAoB,eAApB,C;K;6CAEtC,oB;MAAkD,4BAAiB,SAAjB,EAAuB,4BAAa,QAAb,CAAvB,C;K;;IChGV
,sC;MAAC,gB;K;IAOf,4E;MAA8G,mB;MAA7G,4B;MAA6B,8B;MAAgD,sB;K;+DACpG,Y;MAAsC,OAAgC,aA
A/B,iBAAW,OAAX,UAAoB,gBAApB,CAA+B,EAAW,iBAAW,KAAtB,CAAhC,cAA8D,aAA9D,C;K;gEACtC,o
B;MAAkD,+CAAa,gBAAb,EAAwB,iBAAxB,EAAoC,0BAAS,QAAT,CAApC,C;K;;+CAGtD,Y;MAAmC,+CAAa
,WAAb,EAAqB,IAArB,EAA2B,gCAAS,KAApC,C;K;;IAUO,wC;MAAC,gB;K;IAOf,gF;MAAkH,mB;MAAjH,4B
;MAA+B,8B;MAAkD,sB;K;mEAC1G,Y;MAAsC,OAAgC,aAA/B,iBAAW,OAAX,GAAAoB,gBAAW,EAAAW,iBA
AW,KAAtB,CAAhC,cAA8D,aAA9D,C;K;oEACtC,oB;MAAkD,mDAAe,gBAAf,EAA0B,iBAA1B,EAAsC,0BAA
S,QAAT,CAAtC,C;K;;iDAGtD,Y;MAAmC,mDAAe,WAAf,EAAuB,IAAvB,EAA6B,gCAAS,KAAtC,C;K;;IAGvC
,0B;MAgB8B,yE;MAC1B,mB;K;oCAEA,Y;MAA4B,qB;K;iDAE5B,oB;MAWc,Q;MADV,gBAAgB,QAAS,gBAA
O,SAAP,C;MACf,IAAI,gDAA+B,4CAAnC,C;QAEN,iBAAiB,mBAAU,SAAV,C;QACjB,IAAI,mBAAY,SAAZ,g
BAAyB,CAAzB,IAA8B,mBAAY,UAAZ,eAAyB,CAA3D,C;UAA8D,gBAAS,QAAT,C;QAC9D,iB;;QAEA,YAA
Y,QAAS,kBAAS,SAAT,C;QAErB,mBAAiB,4BAAU,K;QAC3B,IAAI,sDAA+B,kDAAnC,C;UAAgE,gBAAS,QA
AT,C;QACrD,8BAAX,YAAAW,C;;MAVf,qB;K;0CAcJ,oB;MACI,MAAM,6BAAsB,iDAA+C,cAA/C,qCAA0E,QA
A1E,MAAtB,C;K;;qFC7Fd,yB;MAAA,yC;MAAA,wB;QA2BI,WAAW,8B;QAhB6B,KAiBxC,E;QAjBA,OAkBO,I
AAK,a;O;KA7BhB,C;uFAeA,4B;MAYI,WAAW,mB;MACX,O;MACA,OAAO,IAAK,a;K;IAYe,qC;MAAC,kB;M
AAc,wB;K;;sCAR9C,Y;MAQgC,iB;K;sCARhC,Y;MAQ8C,oB;K;wCAR9C,2B;MAAA,sBAQgC,qCARhC,EAQ8
C,8CAR9C,C;K;oCAAA,Y;MAAA,OAQgC,iDARhC,IAQ8C,8CAR9C,O;K;oCAAA,Y;MAAA,c;MAQgC,sD;MA
Ac,yD;MAR9C,a;K;kCAAA,iB;MAAA,4IAQgC,sCARhC,IAQ8C,4CAR9C,I;K;iGAUA,yB;MAAAA,yC;MAgBA,8

C;MAhBA,wB;QA6BI,WAAW,8B;QACX,aAjB8C,KAiBjC,E;QAjBb,OAkBO,oBAAW,MAAX,EAAmB,IAAK,a
AAxB,C;O;KA/BX,C;mGAgBA,yB;MAAA,8C;MAAA,mC;QAaI,WAAW,mB;QACX,aAAa,O;QACb,OAAO,oB
AAW,MAAX,EAAmB,IAAK,aAAxB,C;O;KAfX,C;IxJZA,2E;MASI,sC;MAAA,4C;K;IATJ,mGAWY,Y;MAAQ,2
B;KAXpB,E;IAAA,4DAaQ,kB;MACI,wBAAW,MAAX,C;K;IAdZ,wF;IyJewC,sC;MACpC,0B;K;;IAGJ,kC;MAUI
,OAA2C,CAA3C,2BAA6B,uBAA7B,EAAoC,KAApC,CAA2C,e;K;IAE/C,8B;K;kDAuBI,4B;MASI,MAAM,qCA
A8B,8CAA9B,C;K;;;IAa4B,8C;MAGtC,6B;MAEmD,UAMX,M;MAPxC,kBACmD,mE;MAEnD,eAC0B,K;MAE1
B,cACwC,kE;MAExC,gBACmC,gB;K;iGAG/B,Y;MAAQ,0C;K;0DAEZ,kB;MACI,cAAY,I;MACZ,gBAAc,M;K;I
AGsE,iG;MAAA,uB;QAExE,Q;QAAZ,qCAAY,8D;QACZ,sCAAa,a;QAFb,OAGA,yB;O;K;2DAJJ,+B;MAAkD,O
AAsC,wDAAtC,c;K;IAOyE,uH;MAAA,uB;QAExG,Q;QAAf,iBAAe,8F;QACf,eAAK,2B;QAA6B,mC;QrMjGtB,g
BAAT,Q;QqMsG0D,kB;QAJzD,sBAAsB,SAAK,W;QAC3B,IAAI,eAAa,eAAjB,C;UAEI,iC;UACA,mBAAY,oCA
AwB,eAAxB,EAAyC,kEAAzC,C;;UAGZ,mBAAY,kE;;QAEhB,oBAAa,e;QAZjB,OAcA,yB;O;K;6DAfJ,0C;MAA
qF,OAAsC,qEAAtC,c;K;IAqBzB,mI;MAAA,qB;QACxD,yCAAgB,uB;QAGhB,qCAAY,Y;QACZ,uCAAc,E;QACl
B,W;O;K;iEATA,iC;MAGwB,wCAAa,mCAAb,EAAoC,kFAApC,C;K;mDAQxB,Y;MAMuB,UADC,MACD,EAI
H,MAJG,EAaK,M;MAjBxB,OAAO,IAAP,C;QAEI,aAAa,IAAK,S;QACF,SAAL,IAAK,O;QAAL,mB;UACyB,gB
AArB,0D;U1JxBhB,U;UADP,yB;U0JyBe,O1JxBR,sF;S0JuBC,WAAW,M;QAGX,IAAI,mDAAoB,MAApB,QAAJ
,C;;YAIiB,SAAT,exJxJV,CwJwJuD,IxJxJvD,EwJwJ6D,YxJxJ7D,EwJwJoE,IxJxJpE,EAA8C,KAA9C,C;;YwJyJQ,
gC;cACE,IzJzJhB,oBDgDQ,WAAO,c0JyG0B,C1JzG1B,CAAP,CChDR,C;cyJ0JgB,Q;;cALI,O;;UAAR,c;UAQA,I
AAI,MAAM,yBAAV,C;YACI,IzJvKhB,oBDgDQ,W0JuHoB,0E1JvHpB,CChDR,C;;UyJ0KY,gBAAc,gB;UACd,I
AAK,oBAAW,MAAX,C;;;K;;0EC1MrB,4B;MAoKI,QAhKK,SAgKG,GAhKoB,KAgKpB,I;MACR,IAAI,CAjKC,
SAiKD,GAjKwB,KAiKxB,IAAiB,CAAjB,IAAsB,eAjKE,KAiKF,MAjKrB,SAiKL,C;QAA6C,a;OAjK7C,OAkKO,
C;K;kEAhKX,yB;MAAA,0B;MAAA,mC;QA2KI,QAnKK,SAmKG,GAnKe,K;QAAvB,OAAgC,OAoKzB,KApKg
B,KAoKX,GAAW,CAAC,CAAC,IApKF,KAoKC,KAAmB,KAAK,CAAC,CAAD,IAAL,CAAnB,CAAD,KAAkC,
EAAlD,KApKyB,C;O;KARpC,C;4EAUA,4B;MAoJI,QAhJK,SAgJG,GAhJoB,KAgJpB,I;MACR,IAAI,CAjJC,SAi
JD,GAjJwB,KAiJxB,IAAiB,CAAjB,IAAsB,eAjJE,KAiJF,MAjJrB,SAiJL,C;QAA6C,a;OAjJ7C,OAkJO,C;K;kEAhJ
X,yB;MAAA,4B;MAAA,mC;QA2JI,QAnJK,SAmJG,GAnJe,K;QAAvB,OAAgC,QAoJzB,KApJgB,KAoJX,GAA
W,CAAC,CAAC,IApJF,KAoJC,KAAmB,KAAK,CAAC,CAAD,IAAL,CAAnB,CAAD,KAAkC,EAAlD,KApJyB,
C;O;KARpC,C;4EAUA,4B;MAoII,QAhIK,SAgIG,GAhIc,KAgId,I;MACR,IAAI,CAjIC,SAiID,GAjIkB,KAiIlB,IA
AiB,CAAjB,IAAsB,eAjIJ,KAiII,MAjIrB,SAiIL,C;QAA6C,a;OAjI7C,OAkIO,C;K;kEAhIX,4B;MA2II,QAnIK,SA
mIG,GAnIS,K;MAAjB,OAoIO,KApIU,KAoIL,GAAW,CAAC,CAAC,IApIR,KAoIO,KAAmB,KAAK,CAAC,CA
AD,IAAL,CAAnB,CAAD,KAAkC,EAAlD,K;K;4EAlIX,yB;MAqMA,0B;MArMA,mC;QAIkB,kBAAT,oBAAL,S
AAK,C;QAqML,QAAQ,gBArMe,KAqMf,C;QACR,IAAI,gBAtMmB,KAsMnB,eAAiB,CAAjB,IAAsB,mBAtMH,
KAsMG,GAAa,WAAb,CAA1B,C;UAA6C,W;SAtM7C,OAuMO,C;O;KA3MX,C;kEAMA,4B;MAgNI,QAxMK,o
BAAL,SAAK,CAwMG,QAxMU,KAwMV,C;MAxMR,OAyMO,MAzMW,KAyMN,KAAa,MAzMP,KAyMO,CA
AD,KAAmB,KAAM,CAAD,aAAL,CAAnB,CAAD,YAAkC,EAAlC,CAAX,CAAL,C;K;4EAvMX,4B;MAoGI,QA
hGK,SAgGG,GAhGoB,KAgGpB,I;MACR,IAAI,CAjGC,SAiGD,GAjGwB,KAiGxB,IAAiB,CAAjB,IAAsB,eAjGE
,KAiGF,MAjGrB,SAiGL,C;QAA6C,a;OAjG7C,OAkGO,C;K;kEAhGX,yB;MAAA,0B;MAAA,mC;QA2GI,QAnG
K,SAmGG,GAnGe,K;QAAvB,OAAgC,OAoGzB,KApGgB,KAoGX,GAAW,CAAC,CAAC,IApGF,KAoGC,KAA
mB,KAAK,CAAC,CAAD,IAAL,CAAnB,CAAD,KAAkC,EAAlD,KApGyB,C;O;KARpC,C;4EAUA,4B;MAoFI,Q
AhFK,SAgFG,GAhFoB,KAgFpB,I;MACR,IAAI,CAjFC,SAiFD,GAjFwB,KAiFxB,IAAiB,CAAjB,IAAsB,eAjFE,
KAiFF,MAjFrB,SAiFL,C;QAA6C,a;OAjF7C,OAkFO,C;K;kEAhFX,yB;MAAA,4B;MAAA,mC;QA2FI,QAnFK,S
AmFG,GAnFe,K;QAAvB,OAAgC,QAoFzB,KApFgB,KAoFX,GAAW,CAAC,CAAC,IApFF,KAoFC,KAAmB,KA
AK,CAAC,CAAD,IAAL,CAAnB,CAAD,KAAkC,EAAlD,KApFyB,C;O;KARpC,C;4EAUA,4B;MAoEI,QAhEK,S
AgEG,GAhEc,KAgEd,I;MACR,IAAI,CAjEC,SAiED,GAjEkB,KAiElB,IAAiB,CAAjB,IAAsB,eAjEJ,KAiEI,MAjE
rB,SAiEL,C;QAA6C,a;OAjE7C,OAkEO,C;K;kEAhEX,4B;MA2EI,QAnEK,SAmEG,GAnES,K;MAAjB,OAoEO,K
ApEU,KAoEL,GAAW,CAAC,CAAC,IApER,KAoEO,KAAmB,KAAK,CAAC,CAAD,IAAL,CAAnB,CAAD,KAA
kC,EAAlD,K;K;4EAlEX,yB;MAqIA,0B;MArIA,mC;QAIkB,kBAAT,oBAAL,SAAK,C;QAqIL,QAAQ,gBArIe,KA
qIf,C;QACR,IAAI,gBAtImB,KAsInB,eAAiB,CAAjB,IAAsB,mBAtIH,KAsIG,GAAa,WAAb,CAA1B,C;UAA6C,
W;SAtI7C,OAuIO,C;O;KA3IX,C;kEAMA,4B;MAgJI,QAxIK,oBAAL,SAAK,CAwIG,QAxIU,KAwIV,C;MAxIR,

OAyIO,MAzIW,KAyIN,KAAa,MAzIP,KAyIO,CAAD,KAAmB,KAAM,CAAD,aAAL,CAAnB,CAAD,YAAkC,E
AAlC,CAAX,CAAL,C;K;2EAvIX,4B;MAoCI,QAhCA,SAgCQ,GAhCY,KAgCZ,I;MACR,IAAI,CAjCJ,SAiCI,GA
jCgB,KAiChB,IAAiB,CAAjB,IAAsB,eAjCN,KAiCM,MAjC1B,SAiCA,C;QAA6C,a;OAjC7C,OAkCO,C;K;iEAhC
X,yB;MAAA,0B;MAAA,mC;QA2CI,QAnCA,SAmCQ,GAnCO,K;QAAf,OAAwB,OAoCjB,KApCQ,KAoCH,GA
AW,CAAC,CAAC,IApCV,KAoCS,KAAmB,KAAK,CAAC,CAAD,IAAL,CAAnB,CAAD,KAAkC,EAAlD,KApCi
B,C;O;KAR5B,C;4EAUA,4B;MAoBI,QAhBA,SAgBQ,GAhBY,KAgBZ,I;MACR,IAAI,CAjBJ,SAiBI,GAjBgB,K
AiBhB,IAAiB,CAAjB,IAAsB,eAjBN,KAiBM,MAjB1B,SAiBA,C;QAA6C,a;OAjB7C,OAkBO,C;K;mEAhBX,yB;
MAAA,4B;MAAA,mC;QA2BI,QAnBA,SAmBQ,GAnBO,K;QAAf,OAAwB,QAoBjB,KApBQ,KAoBH,GAAW,C
AAC,CAAC,IApBV,KAoBS,KAAmB,KAAK,CAAC,CAAD,IAAL,CAAnB,CAAD,KAAkC,EAAlD,KApBiB,C;O
;KAR5B,C;4EAUA,4B;MAII,QAAQ,YAAO,KAAP,I;MACR,IAAI,aAAS,KAAT,IAAiB,CAAjB,IAAsB,eAAI,KA
AJ,MAAa,SAAvC,C;QAA6C,a;OAC7C,OAAO,C;K;mEAGX,4B;MAQI,QAAQ,YAAO,K;MACf,OAAO,KAAK,
QAAW,CAAC,CAAC,IAAM,KAAP,KAAmB,KAAK,CAAC,CAAD,IAAL,CAAnB,CAAD,KAAkC,EAAlD,K;K;
4EAGX,yB;MAgEA,0B;MAhEA,mC;QAIkB,kBAAT,oBAAL,SAAK,C;QAgEL,QAAQ,gBAhEe,KAgEf,C;QACR
,IAAI,gBAjEmB,KAiEnB,eAAiB,CAAjB,IAAsB,mBAjEH,KAiEG,GAAa,WAAb,CAA1B,C;UAA6C,W;SAjE7C,
OAkEO,C;O;KAtEX,C;kEAMA,4B;MA2EI,QAnEK,oBAAL,SAAK,CAmEG,QAnEU,KAmEV,C;MAnER,OAoE
O,MApEW,KAoEN,KAAa,MApEP,KAoEO,CAAD,KAAmB,KAAM,CAAD,aAAL,CAAnB,CAAD,YAAkC,EAA
lC,CAAX,CAAL,C;K;6EAlEX,yB;MAgDA,0B;MAhDA,mC;QAIS,cAAe,oBAAN,KAAM,C;QAgDpB,QAhDA,S
AgDQ,KAAO,OAAP,C;QACR,IAjDA,SAiDI,KAAS,OAAT,eAAiB,CAAjB,IAAsB,mBAAI,OAAJ,GAjD1B,SAiD
0B,CAA1B,C;UAA6C,W;SAjD7C,OAkDO,C;O;KAtDX,C;mEAMA,yB;MAAA,0B;MAAA,mC;QAQS,cAAU,oB
AAN,KAAM,C;QAmDf,QAnDA,SAmDQ,QAAO,OAAP,C;QAnDR,OAAyB,OAoDlB,MAAK,YAAa,MAAM,OA
AN,CAAD,KAAmB,KAAM,CAAD,aAAL,CAAnB,CAAD,YAAkC,EAAlC,CAAX,CAAL,CApDkB,S;O;KAR7B,
C;6EAUA,yB;MAgCA,0B;MAhCA,mC;QAIS,cAAe,oBAAN,KAAM,C;QAgCpB,QAhCA,SAgCQ,KAAO,OAAP,
C;QACR,IAjCA,SAiCI,KAAS,OAAT,eAAiB,CAAjB,IAAsB,mBAAI,OAAJ,GAjC1B,SAiC0B,CAA1B,C;UAA6C
,W;SAjC7C,OAkCO,C;O;KAtCX,C;mEAMA,yB;MAAA,4B;MAAA,mC;QAQS,cAAU,oBAAN,KAAM,C;QAmC
f,QAnCA,SAmCQ,QAAO,OAAP,C;QAnCR,OAAyB,QAoClB,MAAK,YAAa,MAAM,OAAN,CAAD,KAAmB,K
AAM,CAAD,aAAL,CAAnB,CAAD,YAAkC,EAAlC,CAAX,CAAL,CApCkB,S;O;KAR7B,C;6EAUA,yB;MAgBA
,0B;MAhBA,mC;QAIS,cAAe,oBAAN,KAAM,C;QAgBpB,QAhBA,SAgBQ,KAAO,OAAP,C;QACR,IAjBA,SAiB
I,KAAS,OAAT,eAAiB,CAAjB,IAAsB,mBAAI,OAAJ,GAjB1B,SAiB0B,CAA1B,C;UAA6C,W;SAjB7C,OAkBO,
C;O;KAtBX,C;mEAMA,4B;MAQS,cAAU,oBAAN,KAAM,C;MAmBf,QAnBA,SAmBQ,QAAO,OAAP,C;MAnB
R,OAoBO,MAAK,YAAa,MAAM,OAAN,CAAD,KAAmB,KAAM,CAAD,aAAL,CAAnB,CAAD,YAAkC,EAAlC
,CAAX,CAAL,CApBkB,Q;K;6EAE7B,yB;MAAA,0B;MAAA,mC;QAII,QAAQ,cAAO,KAAP,C;QACR,IAAI,cA
AS,KAAT,eAAiB,CAAjB,IAAsB,mBAAI,KAAJ,GAAa,SAAb,CAA1B,C;UAA6C,W;SAC7C,OAAO,C;O;KANX,
C;mEASA,4B;MAQI,QAAQ,iBAAO,KAAP,C;MACR,OAAO,MAAK,UAAa,MAAM,KAAN,CAAD,KAAmB,K
AAM,CAAD,aAAL,CAAnB,CAAD,YAAkC,EAAlC,CAAX,CAAL,C;K;kEAGX,yB;MpGiqB2C,iB;MoGjqB3C,m
C;QAUI,QAAQ,YAAO,K;QACJ,iBAAS,G;QAAT,S;UAAsB,OpGspBc,MAAiC,MoGtpB/C,CpGspB+C,CoGtpB/
C,KpGspBc,MAAiC,MoGtpBrC,KpGspBqC,C;SoGtpBhF,OAAO,OAAgD,IAAI,KAApD,GAA+D,C;O;KAX1E,C;
mEAcA,yB;MpG0I6C,iB;MoG1I7C,mC;QAkCI,QAxBK,SAwBG,GAxBY,K;QAyBT,iBAAK,G;QAAL,S;UAAY,
OpGuG0B,MAAW,MoGvGrC,CpGuGqC,CoGvGrC,KpGuG0B,MAAW,MoGhIxC,KpGgIwC,C;SoGhI5D,OAyB
O,OAAsC,IAzBzB,KAyBb,GAAqD,C;O;KAnChE,C;mEAYA,yB;MpG8H6C,iB;MoG9H7C,mC;QAsBI,QAZA,S
AYQ,GAZO,K;QAaJ,iBAAK,G;QAAL,S;UAAY,OpGuG0B,MAAW,MoGvGrC,CpGuGqC,CoGvGrC,KpGuG0B,
MAAW,MoGpH7C,KpGoH6C,C;SoGpH5D,OAaO,OAAsC,IAb9B,KAaR,GAAqD,C;O;KAvBhE,C;mEAYA,yB;
MpGkH6C,iB;MoGlH7C,mC;QAUI,QAAQ,YAAO,K;QACJ,iBAAK,G;QAAL,S;UAAY,OpGuG0B,MAAW,MoG
vGrC,CpGuGqC,CoGvGrC,KpGuG0B,MAAW,MoGvG3B,KpGuG2B,C;SoGvG5D,OAAO,OAAsC,IAAI,KAA1C,
GAAqD,C;O;KAXhE,C;4ECnTA,yB;MAAA,8B;MAAA,4B;QAOyC,Q;QAAA,gFAAoB,C;O;KAP7D,C;ICM0B,4
C;MA+CtB,qC;MA/CuB,kB;MAAgB,kB;MAAgB,kB;MAMvD,iBAAsB,iBAAU,UAAV,EAAiB,UAAjB,EAAwB,
UAAxB,C;K;0CAEtB,+B;M3MWA,IAAI,E2MViB,CAAT,sBAAY,GAAZ,KAA4C,CAAT,sBAAY,GAA/C,MAA
+E,CAAT,sBAAY,GAAlF,C3MUR,CAAJ,C;QACI,c2MVI,2E;Q3MWJ,MAAM,gCAAyB,OAAQ,WAAjC,C;O2M
TN,OAAO,CAAA,KAAM,IAAI,EAAV,KAAgB,KAAM,IAAI,CAA1B,IAA+B,KAA/B,I;K;uCAGX,Y;MAGkC,O

AAE,UAAF,oBAAS,UAAT,SAAgB,U;K;qCAElD,iB;MAEwB,gB;MADpB,IAAI,SAAS,KAAb,C;QAAoB,OAAO,I;MACP,iE;MAAD,mB;QAA6B,OAAO,K;OAAvD,mBAAmB,M;MACnB,OAAO,IAAK,UAAL,KAAgB,YAAa,U;K;uCAGxC,Y;MAA+B,qB;K;8CAE/B,iB;MAAoD,wBAAU,KAAM,UAAhB,I;K;gDAEpD,wB;MAAI,OAAA,IAAK,MAAL,GAAa,KAAb,IAAsB,MAAtB,GAA+B,KAA/B,IAAwC,MAAxC,GAAiD,KAAjD,IAA0D,MAA1D,GAAmE,KAAnE,IAA4E,MAA5E,GAAqF,KAArF,IAA8F,MAA9F,GAAuG,KAAvG,IAAgH,MAAhH,GAAyH,KAAzH,IAAkI,MAAlI,GAA2I,KAA3I,IAAoJ,MAApJ,GAA6J,KAA7J,IAAsK,MAAtK,GAA+K,KAA/K,IAAwL,MAAxL,GAAiM,KAAjM,IAA0M,MAA1M,GAAmN,KAAnN,IAA4N,MAA5N,GAAqO,KAArO,IAA8O,MAA9O,GAAuP,KAAvP,IAAgQ,MAAhQ,GAAyQ,KAAzQ,IAAkR,MAAlR,GAA2R,KAA3R,IAAoS,MAApS,GAA6S,KAA7S,IAAsT,MAAtT,GAA+T,KAA/T,IAAwU,MAAxU,GAAiV,KAAjV,IAA0V,MAA1V,GAAmW,KAAnW,IAA4W,MAA5W,GAAqX,KAArX,IAA8X,MAA9X,GAAuY,KAAvY,IAAgZ,MAAhZ,GAAyZ,KAAzZ,IAAka,MAAla,GAA2a,KAA3a,IAAob,MAApb,GAA6b,KAA7b,IAAsc,MAAtc,GAA+c,KAA/c,IAAwd,MAAxd,GAAie,KAAje,IAA0e,MAA1e,GAAmf,KAAnf,IAA4f,MAA5f,GAAqgB,KAArgB,IAA8gB,MAA9gB,GAAuhB,KAAvhB,IAAgiB,MAAhiB,GAAyiB,KAAziB,IAAkjB,MAAljB,GAA2jB,KAA3jB,IAAokB,MAApkB,GAA6kB,KAA7kB,IAAslB,MAAtlB,GAA+lB,KAA/lB,IAAwmB,MAAxmB,GAAinB,KAAjnB,IAA0nB,MAA1nB,GAAmoB,KAAnoB,IAA4oB,MAA5oB,GAAqpB,KAArpB,IAA8pB,MAA9pB,GAAuqB,KAAvqB,IAAgrB,MAAhrB,GAAyrB,KAAzrB,IAAksB,MAAlsB,GAA2sB,KAA3sB,IAAotB,MAAptB,GAA6tB,KAA7tB,IAAsuB,MAAtuB,GAA+uB,KAA/uB,IAAwvB,MAAxvB,GAAiwB,KAAjwB,IAA0wB,MAA1wB,GAAmxB,KAAnxB,IAA4xB,MAA5xB,GAAqyB,KAAryB,IAA8yB,MAA9yB,GAAuzB,KAAvzB,IAAg0B,MAAh0B,GAAy0B,KAAz0B,IAAk1B,MAAl1B,GAA21B,KAA31B,IAAo2B,MAAp2B,GAA62B,KAA72B,IAAs3B,MAAt3B,GAA+3B,KAA/3B,IAAw4B,MAAx4B,GAAi5B,KAAj5B,IAA05B,MAA15B,GAAm6B,KAAn6B,IAA46B,MAA56B,GAAq7B,KAAr7B,IAA87B,MAA97B,GAAu8B,KAAv8B,IAAg9B,MAAh9B,GAAy9B,KAAz9B,IAAk+B,MAAl+B,GAA2+B,KAA3+B,IAAo/B,MAAp/B,GAA6/B,KAA7/B,IAAsgC,MAAtgC,GAA+gC,KAA/gC,IAAwhC,MAAxhC,GAAiiC,KAAjiC,IAA0iC,MAA1iC,GAAmjC,KAAnjC,IAA4jC,MAA5jC,GAAqkC,KAArkC,IAA8kC,MAA9kC,GAAulC,KAAvlC,IAAgmC,MAAhmC,GAAymC,KAAzmC,IAAknC,MAAlnC,GAA2nC,KAA3nC,IAAooC,MAApoC,GAA6oC,KAA7oC,IAAspC,MAAtpC,GAA+pC,KAA/pC,IAAwqC,MAAxqC,GAAirC,KAAjrC,IAA0rC,MAA1rC,GAAmsC,KAAnsC,IAA4sC,MAA5sC,GAAqtC,KAArtC,IAA8tC,MAA9tC,GAAuuC,KAAvuC,IAAgvC,MAAhvC,GAAyvC,KAAzvC,IAAkwC,MAAlwC,GAA2wC,KAA3wC,IAAoxC,MAApxC,GAA6xC,KAA7xC,IAAsyC,MAAtyC,GAA+yC,KAA/yC,IAAwzC,MAAxzC,GAAi0C,KAAj0C,IAA00C,MAA10C,GAAm1C,KAAn1C,IAA41C,MAA51C,GAAq2C,KAAr2C,IAA82C,MAA92C,GAAu3C,KAAv3C,IAAg4C,MAAh4C,GAAy4C,KAAz4C,IAAk5C,MAAl5C,GAA25C,KAA35C,IAAo6C,MAAp6C,GAA66C,KAA76C,IAAs7C,MAAt7C,GAA+7C,KAA/7C,IAAw8C,MAAx8C,GAAi9C,KAAj9C,IAA09C,MAA19C,GAAm+C,KAAn+C,IAA4+C,MAA5+C,GAAq/C,KAAr/C,IAA8/C,MAA9/C,GAAugD,KAAvgD,IAAghD,MAAhhD,GAAyhD,KAAzhD,IAAkiD,MAAliD,GAA2iD,KAA3iD,IAAojD,MAApjD,GAA6jD,KAA7jD,IAAskD,MAAtkD,GAA+kD,KAA/kD,IAAwlD,MAAxlD,GAAimD,KAAjmD,IAA0mD,MAA1mD,GAAmnD,KAAnnD,IAA4nD,MAA5nD,GAAqoD,KAAroD,IAA8oD,MAA9oD,GAAupD,KAAvpD,IAAgqD,MAAhqD,GAAyqD,KAAzqD,IAAkrD,MAAlrD,GAA2rD,KAA3rD,IAAosD,MAApsD,GAA6sD,KAA7sD,IAAstD,MAAttD,GAA+tD,KAA/tD,IAAwuD,MAAxuD,GAAivD,KAAjvD,IAA0vD,MAA1vD,GAAmwD,KAAnwD,IAA4wD,MAA5wD,GAAqxD,KAArxD,IAA8xD,MAA9xD,GAAuyD,KAAvyD,IAAgzD,MAAhzD,GAAyzD,KAAzzD,IAAk0D,MAAl0D,GAA20D,KAA30D,IAAo1D,MAAp1D,GAA61D,KAA71D,IAAs2D,MAAt2D,GAA+2D,KAA/2D,IAAw3D,MAAx3D,GAAi4D,KAAj4D,IAA04D,MAA14D,GAAm5D,KAAn5D,IAA45D,MAA55D,GAAq6D,KAAr6D,IAA86D,MAA96D,GAAu7D,KAAv7D,IAAg8D,MAAh8D,GAAy8D,KAAz8D,IAAk9D,MAAl9D,GAA29D,KAA39D,IAAo+D,MAAp+D,GAA6+D,KAA7+D,IAAs/D,MAAt/D,GAA+/D,KAA//D,IAAwgE,MAAxgE,GAAihE,KAAjhE,IAA0hE,MAA1hE,GAAmiE,KAAniE,IAA4iE,MAA5iE,GAAqjE,KAArjE,IAA8jE,MAA9jE,GAAukE,KAAvkE,IAAglE,MAAhlE,GAAylE,KAAzlE,IAAkmE,MAAlmE,GAA2mE,KAA3mE,IAAonE,MAApnE,GAA6nE,KAA7nE,IAAsoE,MAAtoE,GAA+oE,KAA/oE,IAAwpE,MAAxpE,GAAiqE,KAAjqE,IAA0qE,MAA1qE,GAAmrE,KAAnrE,IAA4rE,MAA5rE,GAAqsE,KAArsE,IAA8sE,MAA9sE,GAAutE,KAAvtE,IAAguE,MAAhuE,GAAyuE,KAAzuE,IAAkvE,MAAlvE,GAA2vE,KAA3vE,IAAowE,MAApwE,GAA6wE,KAA7wE,IAAsxE,MAAtxE,GAA+xE,KAA/xE,IAAwyE,MAAxyE,GAAizE,KAAjzE,IAA0zE,MAA1zE,GAAm0E,KAAn0E,IAA40E,MAA50E,GAAq1E,KAAr1E,IAA81E,MAA91E,GAAu2E,KAAv2E,IAAg3E,MAAh3E,GAAy3E,KAAz3E,IAAk4E,MAAl4E,GAA24E,KAA34E,IAAo5E,MAAp5E,GAA65E,KAA75E,IAAs6E,MAAt6E,GAA+6E,KAA/6E,IAAw7E,MAAx7E,GAAi8E,KAAj8E,IAA08E,MAA18E,GAAm9E,KAAn9E,IAA49E,MAA59E,GAAq+E,KAAr+E,IAA8+E,MAA9+E,GAAu/E,KAAv/E,IAAggF,MAAhgF,GAAygF,KAAzgF,IAAkhF,MAAlhF,GAA2hF,KAA3hF,IAAoiF,MAApiF,GAA6iF,KAA7iF,IAAsjF,MAAtjF,GAA+jF,KAA/jF,IAAwkF,MAAxkF,GAAilF,KAAjlF,IAA0lF,MAA1lF,GAAmmF,KAAnmF,IAA4mF,MAA5mF,GAAqnF,KAArnF,IAA8nF,MAA9nF,GAAuoF,KAAvoF,IAAgpF,MAAhpF,GAAypF,KAAzpF,IAAkqF,MAAlqF,GAA2qF,KAA3qF,IAAorF,MAAprF,GAA6rF,KAA7rF,IAAssF,MAAtsF,GAA+sF,KAA/sF,IAAwtF,MAAxtF,GAAiuF,KAAjuF,IAA0uF,MAA1uF,GAAmvF,KAAnvF,IAA4vF,MAA5vF,GAAqwF,KAArwF,IAA8wF,MAA9wF,GAAuxF,KAAvxF,IAAgyF,MAAhyF,GAAyyF,KAAzyF,IAAkzF,MAAlzF,GAA2zF,KAA3zF,IAAo0F,MAAp0F,GAA60F,KAA70F,IAAs1F,MAAt1F,GAA+1F,KAA/1F,IAAw2F,MAAx2F,GAAi3F,KAAj3F,IAA03F,MAA13F,GAAm4F,KAAn4F,IAA44F,MAA54F,GAAq5F,KAAr5F,IAA85F,MAA95F,GAAu6F,KAAv6F,IAAg7F,MAAh7F,GAAy7F,KAAz7F,IAAk8F,MAAl8F,GAA28F,KAA38F,IAAo9F,MAAp9F,GAA69F,KAA79F,IAAs+F,MAAt+F,GAA++F,KAA/+F,IAAwgG,MAAxgG,GAAihG,KAAjhG,IAA0hG,MAA1hG,GAAmiG,KAAniG,IAA4iG,MAA5iG,GAAqjG,KAArjG,IAA8jG,MAA9jG,GAAukG,KAAvkG,IAAglG,MAAhlG,GAAylG,KAAzlG,IAAkmG,MAAlmG,GAA2mG,KAA3mG,IAAonG,MAApnG,GAA6nG,KAA7nG,IAAsoG,MAAtoG,GAA+oG,KAA/oG,IAAwpG,MAAxpG,GAAiqG,KAAjqG,IAA0qG,MAA1qG,GAAmrG,KAAnrG,IAA4rG,MAA5rG,GAAqsG,KAArsG,IAA8sG,MAA9sG,GAAutG,KAAvtG,IAAguG,MAAhuG,GAAyuG,KAAzuG,IAAkvG,MAAlvG,GAA2vG,KAA3vG,IAAowG,MAApwG,GAA6wG,KAA7wG,IAAsxG,MAAtxG,GAA+xG,KAA/xG,IAAwyG,MAAxyG,GAAizG,KAAjzG,IAA0zG,MAA1zG,GAAm0G,KAAn0G,IAA40G,MAA50G,GAAq1G,KAAr1G,IAA81G,MAA91G,GAAu2G,KAAv2G,IAAg3G,MAAh3G,GAAy3G,KAAz3G,IAAk4G,MAAl4G,GAA24G,KAA34G,IAAo5G,MAAp5G,GAA65G,KAA75G,IAAs6G,MAAt6G,GAA+6G,KAA/6G,IAAw7G,MAAx7G,GAAi8G,KAAj8G,IAA08G,MAA18G,GAAm9G,KAAn9G,IAA49G,MAA59G,GAAq+G,KAAr+G,IAA8+G,MAA9+G,GAAu/G,KAAv/G,IAAggH,MAAhgH,GAAygH,KAAzgH,IAAkhH,MAAlhH,GAA2hH,KAA3hH,IAAoiH,MAApiH,GAA6iH,KAA7iH,IAAsjH,MAAtjH,GAA+jH,KAA/jH,IAAwkH,MAAxkH,GAAilH,KAAjlH,IAA0lH,MAA1lH,GAAmmH,KAAnmH,IAA4mH,MAA5mH,GAAqnH,KAArnH,IAA8nH,MAA9nH,GAAuoH,KAAvoH,IAAgpH,MAAhpH,GAAypH,KAAzpH,IAAkqH,MAAlqH,GAA2qH,KAA3qH,IAAorH,MAAprH,GAA6rH,KAA7rH,IAAssH,MAAtsH,GAA+sH,KAA/sH,IAAwtH,MAAxtH,GAAiuH,KAAjuH,IAA0uH,MAA1uH,GAAmvH,KAAnvH,IAA4vH,MAA5vH,GAAqwH,KAArwH,IAA8wH,MAA9wH,GAAuxH,KAAvxH,IAAgyH,MAAhyH,GAAyyH,KAAzyH,IAAkzH,MAAlzH,GAA2zH,KAA3zH,IAAo0H,MAAp0H,GAA60H,KAA70H,IAAs1H,MAAt1H,GAA+1H,KAA/1H,IAAw2H,MAAx2H,GAAi3H,KAAj3H,IAA03H,MAA13H,GAAm4H,KAAn4H,IAA44H,MAA54H,GAAq5H,KAAr5H,IAA85H,MAA95H,GAAu6H,KAAv6H,IAAg7H,MAAh7H,GAAy7H,KAAz7H,IAAk8H,MAAl8H,GAA28H,KAA38H,IAAo9H,MAAp9H,GAA69H,KAA79H,IAAs+H,MAAt+H,GAA++H,KAA/+H,IAAwgI,MAAxgI,GAAihI,KAAjhI,IAA0hI,MAA1hI,GAAmiI,KAAniI,IAA4iI,MAA5iI,GAAqjI,KAArjI,IAA8jI,MAA9jI,GAAukI,KAAvkI,IAAglI,MAAhlI,GAAylI,KAAzlI,IAAkmI,MAAlmI,GAA2mI,KAA3mI,IAAonI,MAApnI,GAA6nI,KAA7nI,IAAsoI,MAAtoI,GAA+oI,KAA/oI,IAAwpI,MAAxpI,GAAiqI,KAAjqI,IAA0qI,MAA1qI,GAAmrI,KAAnrI,IAA4rI,MAA5rI,GAAqsI,KAArsI,IAA8sI,MAA9sI,GAAutI,KAAvtI,IAAguI,MAAhuI,GAAyuI,KAAzuI,IAAkvI,MAAlvI,GAA2vI,KAA3vI,IAAowI,MAApwI,GAA6wI,KAA7wI,IAAsxI,MAAtxI,GAA+xI,KAA/xI,IAAwyI,MAAxyI,GAAizI,KAAjzI,IAA0zI,MAA1zI,GAAm0I,KAAn0I,IAA40I,MAA50I,GAAq1I,KAAr1I,IAA81I,MAA91I,GAAu2I,KAAv2I,IAAg3I,MAAh3I,GAAy3I,KAAz3I,IAAk4I,MAAl4I,GAA24I,KAA34I,IAAo5I,MAAp5I,GAA65I,KAA75I,IAAs6I,MAAt6I,GAA+6I,KAA/6I,IAAw7I,MAAx7I,GAAi8I,KAAj8I,IAA08I,MAA18I,GAAm9I,KAAn9I,IAA49I,MAA59I,GAAq+I,KAAr+I,IAA8+I,MAA9+I,GAAu/I,KAAv/I,IAAggJ,MAAhgJ,GAAygJ,KAAzgJ,IAAkhJ,MAAlhJ,GAA2hJ,KAA3hJ,IAAoiJ,MAApiJ,GAA6iJ,KAA7iJ,IAAsjJ,MAAtjJ,GAA+jJ,KAA/jJ,IAAwkJ,MAAxkJ,GAAilJ,KAAjlJ,IAA0lJ,MAA1lJ,GAAmmJ,KAAnmJ,IAA4mJ,MAA5mJ,GAAqnJ,KAArnJ,IAA8nJ,MAA9nJ,GAAuoJ,KAAvoJ,IAAgpJ,MAAhpJ,GAAypJ,KAAzpJ,IAAkqJ,MAAlqJ,GAA2qJ,KAA3qJ,IAAorJ,MAAprJ,GAA6rJ,KAA7rJ,IAAssJ,MAAtsJ,GAA+sJ,KAA/sJ,IAAwtJ,MAAxtJ,GAAiuJ,KAAjuJ,IAA0uJ,MAA1uJ,GAAmvJ,KAAnvJ,IAA4vJ,MAA5vJ,GAAqwJ,KAArwJ,IAA8wJ,MAA9wJ,GAAuxJ,KAAvxJ,IAAgyJ,MAAhyJ,GAAyyJ,KAAzyJ,IAAkzJ,MAAlzJ,GAA2zJ,KAA3zJ,IAAo0J,MAAp0J,GAA60J,KAA70J,IAAs1J,MAAt1J,GAA+1J,KAA/1J,IAAw2J,MAAx2J,GAAi3J,KAAj3J,IAA03J,MAA13J,GAAm4J,KAAn4J,IAA44J,MAA54J,GAAq5J,KAAr5J,IAA85J,MAA95J,GAAu6J,KAAv6J,IAAg7J,MAAh7J,GAAy7J,KAAz7J,IAAk8J,MAAl8J,GAA28J,KAA38J,IAAo9J,MAAp9J,GAA69J,KAA79J,IAAs+J,MAAt+J,GAA++J,KAA/+J,IAAwgK,MAAxgK,GAAihK,KAAjhK,IAA0hK,MAA1hK,GAAmiK,KAAniK,IAA4iK,MAA5iK,GAAqjK,KAArjK,IAA8jK,MAA9jK,GAAukK,KAAvkK,IAAglK,MAAhlK,GAAylK,KAAzlK,IAAkmK,MAAlmK,GAA2mK,KAA3mK,IAAonK,MAApnK,GAA6nK,KAA7nK,IAAsoK,MAAtoK,GAA+oK,KAA/oK,IAAwpK,MAAxpK,GAAiqK,KAAjqK,IAA0qK,MAA1qK,GAAmrK,KAAnrK,IAA4rK,MAA5rK,GAAqsK,KAArsK,IAA8sK,MAA9sK,GAAutK,KAAvtK,IAAguK,MAAhuK,GAAyuK,KAAzuK,IAAkvK,MAAlvK,GAA2vK,KAA3vK,IAAowK,MAApwK,GAA6wK,KAA7wK,IAAsxK,MAAtxK,GAA+xK,KAA/xK,IAAwyK,MAAxyK,GAAizK,KAAjzK,IAA0zK,MAA1zK,GAAm0K,KAAn0K,IAA40K,MAA50K,GAAq1K,KAAr1K,IAA81K,MAA91K,GAAu2K,KAAv2K,IAAg3K,MAAh3K,GAAy3K,KAAz3K,IAAk4K,MAAl4K,GAA24K,KAA34K,IAAo5K,MAAp5K,GAA65K,KAA75K,IAAs6K,MAAt6K,GAA+6K,KAA/6K,IAAw7K,MAAx7K,GAAi8K,KAAj8K,IAA08K,MAA18K,GAAm9K,KAAn9K,IAA49K,MAA59K,GAAq+K,KAAr+K,IAA8+K,MAA9+K,GAAu/K,KAAv/K,IAAggL,MAAhgL,GAAygL,KAAzgL,IAAkhL,MAAlhL,GAA2hL,KAA3hL,IAAoiL,MAApiL,GAA6iL,KAA7iL,IAAsjL,MAAtjL,GAA+jL,KAA/jL,IAAwkL,MAAxkL,GAAilL,KAAjlL,IAA0lL,MAA1lL,GAAmmL,KAAnmL,IAA4mL,MAA5mL,GAAqnL,KAArnL,IAA8nL,MAA9nL,GAAuoL,KAAvoL,IAAgpL,MAAhpL,GAAypL,KAAzpL,IAAkqL,MAAlqL,GAA2qL,KAA3qL,IAAorL,MAAprL,GAA6rL,KAA7rL,IAAssL,MAAtsL,GAA+sL,KAA/sL,IAAwtL,MAAxtL,GAAiuL,KAAjuL,IAA0uL,MAA1uL,GAAmvL,KAAnvL,IAA4vL,MAA5vL,GAAqwL,KAArwL,IAA8wL,MAA9wL,GAAuxL,KAAvxL,IAAgyL,MAAhyL,GAAyyL,KAAzyL,IAAkzL,MAAlzL,GAA2zL,KAA3zL,IAAo0L,MAAp0L,GAA60L,KAA70L,IAAs1L,MAAt1L,GAA+1L,KAA/1L,IAAw2L,MAAx2L,GAAi3L,KAAj3L,IAA03L,MAA13L,GAAm4L,KAAn4L,IAA44L,MAA54L,GAAq5L,KAAr5L,IAA85L,MAA95L,GAAu6L,KAAv6L,IAAg7L,MAAh7L,GAAy7L,KAAz7L,IAAk8L,MAAl8L,GAA28L,KAA38L,IAAo9L,MAAp9L,GAA69L,KAA79L,IAAs+L,MAAt+L,GAA++L,KAA/+L,IAAwgM,MAAxgM,GAAihM,KAAjhM,IAA0hM,MAA1hM,GAAmiM,KAAniM,IAA4iM,MAA5iM,GAAqjM,KAArjM,IAA8jM,MAA9jM,GAAukM,KAAvkM,IAAglM,MAAhlM,GAAylM,KAAzlM,IAAkmM,MAAlmM,GAA2mM,KAA3mM,IAAonM,MAApnM,GAA6nM,KAA7nM,IAAsoM,MAAtoM,GAA+oM,KAA/oM,IAAwpM,MAAxpM,GAAiqM,KAAjqM,IAA0qM,MAA1qM,GAAmrM,KAAnrM,IAA4rM,MAA5rM,GAAqsM,KAArsM,IAA8sM,MAA9sM,GAAutM,KAAvtM,IAAguM,MAAhuM,GAAyuM,KAAzuM,IAAkvM,MAAlvM,GAA2vM,KAA3vM,IAAowM,MAApwM,GAA6wM,KAA7wM,IAAsxM,MAAtxM,GAA+xM,KAA/xM,IAAwyM,MAAxyM,GAAizM,KAAjzM,IAA0zM,MAA1zM,GAAm0M,KAAn0M,IAA40M,MAA50M,GAAq1M,KAAr1M,IAA81M,MAA91M,GAAu2M,KAAv2M,IAAg3M,MAAh3M,GAAy3M,KAAz3M,IAAk4M,MAAl4M,GAA24M,KAA34M,IAAo5M,MAAp5M,GAA65M,KAA75M,IAAs6M,MAAt6M,GAA+6M,KAA/6M,IAAw7M,MAAx7M,GAAi8M,KAAj8M,IAA08M,MAA18M,GAAm9M,KAAn9M,IAA49M,MAA59M,GAAq+M,KAAr+M,IAA8+M,MAA9+M,GAAu/M,KAAv/M,IAAggN,MAAhgN,GAAygN,KAAzgN,IAAkhN,MAAlhN,GAA2hN,KAA3hN,IAAoiN,MAApiN,GAA6iN,KAA7iN,IAAsjN,MAAtjN,GAA+jN,KAA/jN,IAAwkN,MAAxkN,GAAilN,KAAjlN,IAA0lN,MAA1lN,GAAmmN,KAAnmN,IAA4mN,MAA5mN,GAAqnN,KAArnN,IAA8nN,MAA9nN,GAAuoN,KAAvoN,IAAgpN,MAAhpN,GAAypN,KAAzpN,IAAkqN,MAAlqN,GAA2qN,KAA3qN,IAAorN,MAAprN,GAA6rN,KAA7rN,IAAssN,MAAtsN,GAA+sN,KAA/sN,IAAwtN,MAAxtN,GAAiuN,KAAjuN,IAA0uN,MAA1uN,GAAmvN,KAAnvN,IAA4vN,MAA5vN,GAAqwN,KAArwN,IAA8wN,MAA9wN,GAAuxN,KAAvxN,IAAgyN,MAAhyN,GAAyyN,KAAzyN,IAAkzN,MAAlzN,GAA2zN,KAA3zN,IAAo0N,MAAp0N,GAA60N,KAA70N,IAAs1N,MAAt1N,GAA+1N,KAA/1N,IAAw2N,MAAx2N,GAAi3N,KAAj3N,IAA03N,MAA13N,GAAm4N,KAAn4N,IAA44N,MAA54N,GAAq5N,KAAr5N,IAA85N,MAA95N,GAAu6N,KAAv6N,IAAg7N,MAAh7N,GAAy7N,KAAz7N,IAAk8N,MAAl8N,GAA28N,KAA38N,IAAo9N,MAAp9N,GAA69N,KAA79N,IAAs+N,MAAt+N,GAA++N,KAA/+N,IAAwgO,MAAxgO,GAAihO,KAAjhO,IAA0hO,MAA1hO,GAAmiO,KAAniO,IAA4iO,MAA5iO,GAAqjO,KAArjO,IAA8jO,MAA9jO,GAAukO,KAAvkO,IAAglO,MAAhlO,GAAylO,KAAzlO,IAAkmO,MAAlmO,GAA2mO,KAA3mO,IAAonO,MAApnO,GAA6nO,KAA7nO,IAAsoO,MAAtoO,GAA+oO,KAA/oO,IAAwpO,MAAxpO,GAAiqO,KAAjqO,IAA0qO,MAA1qO,GAAmrO,KAAnrO,IAA4rO,MAA5rO,GAAqsO,KAArsO,IAA8sO,MAA9sO,GAAutO,KAAvtO,IAAguO,MAAhuO,GAAyuO,KAAzuO,IAAkvO,MAAlvO,GAA2vO,KAA3vO,IAAowO,MAApwO,GAA6wO,KAA7wO,IAAsxO,MAAtxO,GAA+xO,KAA/xO,IAAwyO,MAAxyO,GAAizO,KAAjzO,IAA0zO,MAA1zO,GAAm0O,KAAn0O,IAA40O,MAA50O,GAAq1O,KAAr1O,IAA81O,MAA91O,GAAu2O,KAAv2O,IAAg3O,MAAh3O,GAAy3O,KAAz3O,IAAk4O,MAAl4O,GAA24O,KAA34O,IAAo5O,MAAp5O,GAA65O,KAA75O,IAAs6O,MAAt6O,GAA+6O,KAA/6O,IAAw7O,MAAx7O,GAAi8O,KAAj8O,IAA08O,MAA18O,GAAm9O,KAAn9O,IAA49O,MAA59O,GAAq+O,KAAr+O,IAA8+O,MAA9+O,GAAu/O,KAAv/O,IAAggP,MAAhgP,GAAygP,KAAzgP,IAAkhP,MAAlhP,GAA2hP,KAA3hP,IAAoiP,MAApiP,GAA6iP,KAA7iP,IAAsjP,MAAtjP,GAA+jP,KAA/jP,IAAwkP,MAAxkP,GAAilP,KAAjlP,IAA0lP,MAA1lP,GAAmmP,KAAnmP,IAA4mP,MAA5mP,GAAqnP,KAArnP,IAA8nP,MAA9nP,GAAuoP,KAAvoP,IAAgpP,MAAhpP,GAAypP,KAAzpP,IAAkqP,MAAlqP,GAA2qP,KAA3qP,IAAorP,MAAprP,GAA6rP,KAA7rP,IAAssP,MAAtsP,GAA+sP,KAA/sP,IAAwtP,MAAxtP,GAAiuP,KAAjuP,IAA0uP,MAA1uP,GAAmvP,KAAnvP,IAA4vP,MAA5vP,GAAqwP,KAArwP,IAA8wP,MAA9wP,GAAuxP,KAAvxP,IAAgyP,MAAhyP,GAAyyP,KAAzyP,IAAkzP,MAAlzP,GAA2zP,KAA3zP,IAAo0P,MAAp0P,GAA60P,KAA70P,IAAs1P,MAAt1P,GAA+1P,KAA/1P,IAAw2P,MAAx2P,GAAi3P,KAAj3P,IAA03P,MAA13P,GAAm4P,KAAn4P,IAA44P,MAA54P,GAAq5P,KAAr5P,IAA85P,MAA95P,GAAu6P,KAAv6P,IAAg7P,MAAh7P,GAAy7P,KAAz7P,IAAk8P,MAAl8P,GAA28P,KAA38P,IAAo9P,MAAp9P,GAA69P,KAA79P,IAAs+P,MAAt+P,GAA++P,KAA/+P,IAAwgQ,MAAxgQ,GAAihQ,KAAjhQ,IAA0hQ,MAA1hQ,GAAmiQ,KAAniQ,IAA4iQ,MAA5iQ,GAAqjQ,KAArjQ,IAA8jQ,MAA9jQ,GAAukQ,KAAvkQ,IAAglQ,MAAhlQ,GAAylQ,KAAzlQ,IAAkmQ,MAAlmQ,GAA2mQ,KAA3mQ,IAAonQ,MAApnQ,GAA6nQ,KAA7nQ,IAAsoQ,MAAtoQ,GAA+oQ,KAA/oQ,IAAwpQ,MAAxpQ,GAAiqQ,KAAjqQ,IAA0qQ,MAA1qQ,GAAmrQ,KAAnrQ,IAA4rQ,MAA5rQ,GAAqsQ,KAArsQ,IAA8sQ,MAA9sQ,GAAutQ,KAAvtQ,IAAguQ,MAAhuQ,GAAyuQ,KAAzuQ,IAAkvQ,MAAlvQ,GAA2vQ,KAA3vQ,IAAowQ,MAApwQ,GAA6wQ,KAA7wQ,IAAsxQ,MAAtxQ,GAA+xQ,KAA/xQ,IAAwyQ,MAAxyQ,GAAizQ,KAAjzQ,IAA0zQ,MAA1zQ,GAAm0Q,KAAn0Q,IAA40Q,MAA50Q,GAAq1Q,KAAr1Q,IAA81Q,MAA91Q,GAAu2Q,KAAv2Q,IAAg3Q,MAAh3Q,GAAy3Q,KAAz3Q,IAAk4Q,MAAl4Q,GAA24Q,KAA34Q,IAAo5Q,MAAp5Q,GAA65Q,KAA75Q,IAAs6Q,MAAt6Q,GAA+6Q,KAA/6Q,IAAw7Q,MAAx7Q,GAAi8Q,KAAj8Q,IAA08Q,MAA18Q,GAAm9Q,KAAn9Q,IAA49Q,MAA59Q,GAAq+Q,KAAr+Q,IAA8+Q,MAA9+Q,GAAu/Q,KAAv/Q,IAAggR,MAAhgR,GAAygR,KAAzgR,IAAkhR,MAAlhR,GAA2hR,KAA3hR,IAAoiR,MAApiR,GAA6iR,KAA7iR,IAAsjR,MAAtjR,GAA+jR,KAA/jR,IAAwkR,MAAxkR,GAAilR,KAAjlR,IAA0lR,MAA1lR,GAAmmR,KAAnmR,IAA4mR,MAA5mR,GAAqnR,KAArnR,IAA8nR,MAA9nR,GAAuoR,KAAvoR,IAAgpR,MAAhpR,GAAypR,KAAzpR,IAAkqR,MAAlqR,GAA2qR,KAA3qR,IAAorR,MAAprR,GAA6rR,KAA7rR,IAAssR,MAAtsR,GAA+sR,KAA/sR,IAAwtR,MAAxtR,GAAiuR,KAAjuR,IAA0uR,MAA1uR,GAAmvR,KAAnvR,IAA4vR,MAA5vR,GAAqwR,KAArwR,IAA8wR,MAA9wR,GAAuxR,KAAvxR,IAAgyR,MAAhyR,GAAyyR,KAAzyR,IAAkzR,MAAlzR,GAA2zR,KAA3zR,IAAo0R,MAAp0R,GAA60R,KAA70R,IAAs1R,MAAt1R,GAA+1R,KAA/1R,IAAw2R,MAAx2R,GAAi3R,KAAj3R,IAA03R,MAA13R,GAAm4R,KAAn4R,IAA44R,MAA54R,GAAq5R,KAAr5R,IAA85R,MAA95R,GAAu6R,KAAv6R,IAAg7R,MAAh7R,GAAy7R,KAAz7R,IAAk8R,MAAl8R,GAA28R,KAA38R,IAAo9R,MAAp9R,GAA69R,KAA79R,IAAs+R,MAAt+R,GAA++R,KAA/+R,IAAwgS,MAAxgS,GAAihS,KAAjhS,IAA0hS,MAA1hS,GAAmiS,KAAniS,IAA4iS,MAA5iS,GAAqjS,KAArjS,IAA8jS,MAA9jS,GAAukS,KAAvkS,IAAglS,MAAhlS,GAAylS,KAAzlS,IAAkmS,MAAlmS,GAA2mS,KAA3mS,IAAonS,MAApnS,GAA6nS,KAA7nS,IAAsoS,MAAtoS,GAA+oS,KAA/oS,IAAwpS,MAAxpS,GAAiqS,KAAjqS,IAA0qS,MAA1qS,GAAmrS,KAAnrS,IAA4rS,MAA5rS,GAAqsS,KAArsS,IAA8sS,MAA9sS,GAAutS,KAAvtS,IAAguS,MAAhuS,GAAyuS,KAAzuS,IAAkvS,MAAlvS,GAA2vS,KAA3vS,IAAowS,MAApwS,GAA6wS,KAA7wS,IAAsxS,MAAtxS,GAA+xS,KAA/xS,IAAwyS,MAAxyS,GAAizS,KAAjzS,IAA0zS,MAA1zS,GAAm0S,KAAn0S,IAA40S,MAA50S,GAAq1S,KAAr1S,IAA81S,MAA91S,GAAu2S,KAAv2S,IAAg3S,MAAh3S,GAAy3S,KAAz3S,IAAk4S,MAAl4S,GAA24S,KAA34S,IAAo5S,MAAp5S,GAA65S,KAA75S,IAAs6S,MAAt6S,GAA+6S,KAA/6S,IAAw7S,MAAx7S,GAAi8S,KAAj8S,IAA08S,MAA18S,GAAm9S,KAAn9S,IAA49S,MAA59S,GAAq+S,KAAr+S,IAA8+S,MAA9+S,GAAu/S,KAAv/S,IAAggT,MAAhgT,GAAygT,KAAzgT,IAAkhT,MAAlhT,GAA2hT,KAA3hT,IAAoiT,MAApiT,GAA6iT,KAA7iT,IAAsjT,MAAtjT,GAA+jT,KAA/jT,IAAwkT,MAAxkT,GAAilT,KAAjlT,IAA0lT,MAA1lT,GAAmmT,KAAnmT,IAA4mT,MAA5mT,GAAqnT,KAArnT,IAA8nT,MAA9nT,GAAuoT,KAAvoT,IAAgpT,MAAhpT,GAAypT,KAAzpT,IAAkqT,MAAlqT,GAA2qT,KAA3qT,IAAorT,MAAprT,GAA6rT,KAA7rT,IAAssT,MAAtsT,GAA+sT,KAA/sT,IAAwtT,MAAxtT,GAAiuT,KAAjuT,IAA0uT,MAA1uT,GAAmvT,KAAnvT,IAA4vT,MAA5vT,GAAqwT,KAArwT,IAA8wT,MAA9wT,GAAuxT,KAAvxT,IAAgyT,MAAhyT,GAAyyT,KAAzyT,IAAkzT,MAAlzT,GAA2zT,KAA3zT,IAAo0T,MAAp0T,GAA60T,KAA70T,IAAs1T,MAAt1T,GAA+1T,KAA/1T,IAAw2T,MAAx2T,GAAi3T,KAAj3T,IAA03T,MAA13T,GAAm4T,KAAn4T,IAA44T,MAA54T,GAAq5T,KAAr5T,IAA85T,MAA95T,GAAu6T,KAAv6T,IAAg7T,MAAh7T,GAAy7T,KAAz7T,IAAk8T,MAAl8T,GAA28T,KAA38T,IAAo9T,MAAp9T,GAA69T,KAA79T,IAAs+T,MAAt+T,GAA++T,KAA/+T,IAAwgU,MAAxgU,GAAihU,KAAjhU,IAA0hU,MAA1hU,GAAmiU,KAAniU,IAA4iU,MAA5iU,GAAqjU,KAArjU,IAA8jU,MAA9jU,GAAukU,KAAvkU,IAAglU,MAAhlU,GAAylU,KAAzlU,IAAkmU,MAAlmU,GAA2mU,KAA3mU,IAAonU,MAApnU,GAA6nU,KAA7nU,IAAsoU,MAAtoU,GAA+oU,KAA/oU,IAAwpU,MAAxpU,GAAiqU,KAAjqU,IAA0qU,MAA1qU,GAAmrU,KAAnrU,IAA4rU,MAA5rU,GAAqsU,KAArsU,IAA8sU,MAA9sU,GAAutU,KAAvtU,IAAguU,MAAhuU,GAAyuU,KAAzuU,IAAkvU,MAAlvU,GAA2vU,KAA3vU,IAAowU,MAApwU,GAA6wU,KAA7wU,IAAsx

B;QADJ,OACkB,UAAM,W;;QADxB,OAEY,sBAAU,UAAV,O;K;IAKhB,4B;MAAA,gC;K;wHAKI,yB;MAAA,i
C;MAAA,wB;QAOI,uBAAO,KAAP,C;O;KAPJ,C;wHASA,yB;MAAA,kD;MAAA,iC;MAAA,4B;QAOI,uBAAO,c
AAc,SAAd,CAAP,C;O;KAPJ,C;;;IAdJ,wC;MAAA,uC;QAAA,sB;OAAA,gC;K;IAwBsB,mC;MAClB,0B;K;sCAG
A,iB;MAA4C,+CAAoB,uBAAa,KAAM,UAAnB,C;K;wCAChE,Y;MAA+B,OAAU,SAAV,cAAU,C;K;wCACzC,
Y;MAAkC,oBAAU,cAAV,M;K;;;;;;gCA/F1C,Y;MAAA,c;MAOI,sD;MAPJ,a;K;8BAAA,iB;MAAA,2IAOI,sCAPJ,
G;K;IAmGA,kC;MAOI,OAAO,mBAAQ,SAAR,C;K;IAEX,mC;MAQI,IAAI,8CAAJ,C;QAA6B,MAAM,eAAM,U;
K;gFAG7C,yB;MAAA,4B;MAAA,qB;MAxCQ,kD;MAwCR,wB;QAOW,Q;;UACI,OAlDH,WAkDW,OAlDX,C;;
UAmDN,gC;YACS,OA3CH,WAAO,cA2CI,CA3CJ,CAAP,C;;YAwCD,O;;QAAP,W;O;KAPJ,C;kFAcA,yB;MAA
A,4B;MAAA,qB;MAtDQ,kD;MAsDR,mC;QAOW,Q;;UACI,OAhEH,WAgEW,gBAhEX,C;;UAiEN,gC;YACS,OA
zDH,WAAO,cAyDI,CAzDJ,CAAP,C;;YAsDD,O;;QAAP,W;O;KAPJ,C;8EAgBA,yB;MAAA,oD;MAAA,gB;MAA
A,8B;MAAA,4B;QAUW,Q;QADP,yB;QACA,OAAO,gF;O;KAVX,C;+EAaA,yB;MAAA,gB;MAAA,8B;MAAA,u
C;QAegB,UADL,M;QAAM,gBAAgB,2B;QACzB,sB;UAAQ,yF;;UACA,mBAAU,SAAV,C;QAFZ,a;O;KAdJ,C;k
FAoBA,yB;MAAA,gB;MAAA,8B;MAAA,0C;QAUW,Q;QADP,IAAI,mBAAJ,C;UAAe,OAAO,Y;QACtB,OAAO,
gF;O;KAVX,C;qEAaA,yB;MAAA,gB;MAAA,8B;MAAA,kD;QAiB0B,UADf,M;QAAM,gBAAgB,2B;QACzB,sB;
UAAQ,mBAAU,gFAAV,C;;UACA,mBAAU,SAAV,C;QAFZ,a;O;KAhBJ,C;mEAwBA,yB;MAAA,4B;MAAA,gB;
MAAA,8B;MAAA,uC;YAe8C,I;YADnC,M;QACH,wB;UAAa,gB;UAAO,SA7JhB,WA6JwB,UAAU,gFAAV,CA7
JxB,C;;UA8JI,oBAAO,eAAP,C;QAFZ,a;O;KAdJ,C;gFAoBA,yB;MAAA,gB;MAAA,8B;MAAA,iC;MA1GA,qB;
MAtDQ,kD;MAgKR,uC;QAWW,Q;QACH,wB;UA/GG,U;;YA+GkC,U;YA9G9B,SAhEH,gBA8KuB,UAAU,sFA
AV,CA9KvB,C;;YAiEN,gC;cACS,SAzDH,gBAAO,cAyDI,CAzDJ,CAAP,C;;cAsDD,O;;UA+GU,a;;UACL,uBAA
O,eAAP,C;QAFZ,W;O;KAXJ,C;wEAiBA,yB;MAAA,4B;MAAA,uC;QAcW,Q;QAAM,gBAAgB,2B;QACzB,sB;U
AAQ,gB;;UACO,OAnMX,WAmMmB,UAAU,SAAV,CAnMnB,C;;QAiMR,W;O;KAdJ,C;wFAoBA,yB;MA/IA,4
B;MAAA,qB;MAtDQ,kD;MAqMR,uC;QAWW,Q;QAAM,gBAAgB,2B;QACzB,sB;UAAQ,gB;;UApJL,U;;YACI,
SAhEH,WAoNkB,oBApNlB,C;;YAiEN,gC;cACS,SAzDH,WAAO,cAyDI,CAzDJ,CAAP,C;;cAsDD,O;;UAqJK,a;;
QAFZ,W;O;KAXJ,C;4EAmBA,6B;MAUI,Q;MAAA,iD;QAAyB,Y;OACzB,OAAO,S;K;4EAGX,yB;MAAA,gB;M
AAA,8B;MAAA,oC;QAU0B,Q;QAAtB,IAAI,mBAAJ,C;UAAe,OAAO,gFAAP,C;SACf,OAAO,S;O;KAXX,C;I3C
tTgC,sC;MAAC,uB;QAAA,UAAkB,kC;mBAA4C,O;;K;;0DAE/F,yB;MAAA,2D;MAAA,mB;QAKoC,MAAM,8B;
O;KAL1C,C;oEAOA,yB;MAAA,2D;MAAA,yB;QAMkD,MAAM,6BAAoB,sCAAmC,MAAvD,C;O;KANxD,C;g
EAUA,iB;MAUI,OAAO,O;K;kEAGX,4B;MAUI,OAAO,gB;K;oEAGX,2B;MAUI,OAAgB,MAAT,QAAS,C;K;oE
AGpB,4B;MAUI,gB;MACA,OAAO,S;K;kEAGX,4B;MAWI,MAAM,SAAN,C;MACA,OAAO,S;K;kEAGX,4B;M
AUI,OAAO,MAAM,SAAN,C;K;sEAGX,gC;MAWI,OAAW,UAAU,SAAV,CAAJ,GAAqB,SAArB,GAA+B,I;K;8
EAG1C,gC;MAWI,OAAW,CAAC,UAAU,SAAV,CAAL,GAAsB,SAAtB,GAAgC,I;K;wEAG3C,yB;MAWI,iBAA
c,CAAd,UAAsB,KAAtB,U;QACI,OAAO,KAAP,C;;K;wE4MjJR,iB;MAIkF,Y;K;ICY9C,6B;MAChC,kB;MACA,o
B;K;8BAGA,Y;MAGyC,aAAG,UAAH,UAAW,WAAX,M;K;;gCAvB7C,Y;MAgBI,iB;K;gCAhBJ,Y;MAiBI,kB;K;
kCAjBJ,yB;MAAA,gBAgBI,qCAhBJ,EAiBI,wCAjBJ,C;K;8BAAA,Y;MAAA,c;MAgBI,sD;MACA,uD;MAjBJ,a;
K;4BAAA,iB;MAAA,4IAgBI,sCAhBJ,IAiBI,wCAjBJ,I;K;IA0BA,6B;MAMoD,gBAAK,SAAL,EAAW,IAAX,C;K
;IAEpD,8B;MAI8C,iBAAO,eAAP,EAAc,gBAAd,E;K;IAiBD,sC;MACzC,kB;MACA,oB;MACA,kB;K;gCAGA,Y;
MAGyC,aAAG,UAAH,UAAW,WAAX,UAAoB,UAApB,M;K;;kCAxB7C,Y;MAgBI,iB;K;kCAhBJ,Y;MAiBI,kB;
K;kCAjBJ,Y;MAkBI,iB;K;oCAlBJ,gC;MAAA,kBAgBI,qCAhBJ,EAiBI,wCAjBJ,EAkBI,qCAlBJ,C;K;gCAAA,Y;
MAAA,c;MAgBI,sD;MACA,uD;MACA,sD;MAlBJ,a;K;8BAAA,iB;MAAA,4IAgBI,sCAhBJ,IAiBI,wCAjBJ,IAkB
I,sCAlBJ,I;K;IA2BA,8B;MAImD,iBAAO,eAAP,EAAc,gBAAd,EAAsB,eAAtB,E;K;I5NlE1B,qB;MAErB,6B;MAF
wD,gB;K;IAExD,2B;MAAA,+B;MACI,iBAGoC,UAAM,CAAN,C;MAEpC,iBAGoC,UAAM,MAAN,C;MAEpC,k
BAGmC,C;MAEnC,iBAGkC,C;K;;;IAnBtC,uC;MAAA,sC;QAAA,qB;OAAA,+B;K;kGAsBA,iB;MAOmE,OAAa,
0BA2O1C,SAAL,GAAiB,GA3O8B,EAAU,KA2OpD,KAAL,GAAiB,GA3O8B,C;K;sGAEhF,iB;MAM2D,OAAa,0
BAmOlC,SAAL,GAAiB,GAnOsB,EAAU,KEoO5C,KAAL,GAAiB,KFpOsB,C;K;sGAExE,yB;MA0PA,6B;MC3P
A,8C;MDCA,wB;QAMyD,OCAS,YAAiB,CD6PhD,cAAU,SAAL,GAAiB,GAAtB,CC7PgD,MAAjB,EDAe,KCAc,
KAA7B,C;O;KDNlE,C;sGAQA,yB;MA4PA,WAS6D,wB;MAT7D,+B;MiB7PA,gD;MjBCA,wB;QAM0D,OiBAS,
aAAkB,CjB+PhD,eAAW,oBAAL,SAAK,CAAL,UAAN,CiB/PgD,MAAlB,EjBAgB,KiBAc,KAA9B,C;O;KjBNnE,
C;4FAQA,yB;MA0OA,6B;MA1OA,wB;QAEsD,OCMD,cAAU,CD2O5B,cAAU,SAAL,GAAiB,GAAtB,CC3O4B,

MAAK,GAAW,CD2O5C,cAjPsC,KAiP5B,KAAL,GAAiB,GAAtB,CC3O4C,MAAX,IAAf,C;O;KDRrD,C;4FAGA
,yB;MAuOA,6B;MAvOA,wB;QAEuD,OCGF,cAAU,CD2O5B,cAAU,SAAL,GAAiB,GAAtB,CC3O4B,MAAK,G
AAW,CC4O5C,cF/OuC,KE+O7B,KAAL,GAAiB,KAAtB,CD5O4C,MAAX,IAAf,C;O;KDLrD,C;4FAGA,yB;MAo
OA,6B;MApOA,wB;QAEqD,OCAA,cAAU,CD2O5B,cAAU,SAAL,GAAiB,GAAtB,CC3O4B,MAAK,GDAI,KCA
O,KAAX,IAAf,C;O;KDFrD,C;4FAGA,yB;MA2OA,WAS6D,wB;MAT7D,+B;MA3OA,wB;QAEuD,OiBAA,eAA
W,CjBkP7B,eAAW,oBAAL,SAAK,CAAL,UAAN,CiBlP6B,MAAK,KjBAI,KiBAO,KAAX,CAAhB,C;O;KjBFvD,
C;8FAIA,yB;MA6NA,6B;MA7NA,wB;QAEuD,OCMD,cAAU,CD8N7B,cAAU,SAAL,GAAiB,GAAtB,CC9N6B,
MAAK,GAAY,CD8N9C,cApOwC,KAoO9B,KAAL,GAAiB,GAAtB,CC9N8C,MAAZ,IAAf,C;O;KDRtD,C;8FAG
A,yB;MA0NA,6B;MA1NA,wB;QAEwD,OCGF,cAAU,CD8N7B,cAAU,SAAL,GAAiB,GAAtB,CC9N6B,MAAK,
GAAY,CC+N9C,cFlOyC,KEkO/B,KAAL,GAAiB,KAAtB,CD/N8C,MAAZ,IAAf,C;O;KDLtD,C;8FAGA,yB;MAu
NA,6B;MAvNA,wB;QAEsD,OCAA,cAAU,CD8N7B,cAAU,SAAL,GAAiB,GAAtB,CC9N6B,MAAK,GDAK,KC
AO,KAAZ,IAAf,C;O;KDFtD,C;8FAGA,yB;MA8NA,WAS6D,wB;MAT7D,+B;MA9NA,wB;QAEwD,OiBAA,eA
AW,CjBqO9B,eAAW,oBAAL,SAAK,CAAL,UAAN,CiBrO8B,MAAK,UjBAK,KiBAO,KAAZ,CAAhB,C;O;KjBF
xD,C;8FAIA,yB;MAgNA,6B;MAhNA,wB;QAEuD,OCMD,cAAe,YAAL,CDiN7B,cAAU,SAAL,GAAiB,GAAtB,
CCjN6B,MAAK,EAAY,CDiN9C,cAvNwC,KAuN9B,KAAL,GAAiB,GAAtB,CCjN8C,MAAZ,CAAf,C;O;KDRtD,
C;8FAGA,yB;MA6MA,6B;MA7MA,wB;QAEwD,OCGF,cAAe,YAAL,CDiN7B,cAAU,SAAL,GAAiB,GAAtB,CC
jN6B,MAAK,EAAY,CCkN9C,cFrNyC,KEqN/B,KAAL,GAAiB,KAAtB,CDlN8C,MAAZ,CAAf,C;O;KDLtD,C;8F
AGA,yB;MA0MA,6B;MA1MA,wB;QAEsD,OCAA,cAAe,YAAL,CDiN7B,cAAU,SAAL,GAAiB,GAAtB,CCjN6B,CjN6B
,MAAK,EDAK,KCAO,KAAZ,CAAf,C;O;KDFtD,C;8FAGA,yB;MAiNA,WAS6D,wB;MAT7D,+B;MAjNA,wB;Q
AEwD,OiBAA,eAAW,CjBwN9B,eAAW,oBAAL,SAAK,CAAL,UAAN,CiBxN8B,MAAK,UjBAK,KiBAO,KAAZ
,CAAhB,C;O;KjBFxD,C;0FAIA,yB;MAmMA,6B;MC7LA,4C;MDNA,wB;QAEqD,OCMD,WDoMjB,cAAU,SAA
L,GAAiB,GAAtB,CCpMiB,EDoMjB,cA1MoC,KA0M1B,KAAL,GAAiB,GAAtB,CCpMiB,C;O;KDRpD,C;0FAG
A,yB;MAgMA,6B;MC7LA,4C;MDHA,wB;QAEsD,OCGF,WDoMjB,cAAU,SAAL,GAAiB,GAAtB,CCpMiB,ECq
MjB,cFxMqC,KEwM3B,KAAL,GAAiB,KAAtB,CDrMiB,C;O;KDLpD,C;0FAGA,yB;MA6LA,6B;MC7LA,4C;M
DAA,wB;QAEoD,OCAA,WDoMjB,cAAU,SAAL,GAAiB,GAAtB,CCpMiB,EDAkB,KCAlB,C;O;KDFpD,C;0FA
GA,yB;MAoMA,WAS6D,wB;MAT7D,+B;MiBpMA,8C;MjBAA,wB;QAEsD,OiBAA,YjB2B2MjB,eAAW,oBAAL,
SAAK,CAAL,UAAN,CiB3B3MiB,EjBAmB,KiBAnB,C;O;KjBFtD,C;0FAIA,yB;MAsLA,6B;MCxKA,kD;MDdA,wB;
QAMqD,OCcD,cD2KjB,cAAU,SAAL,GAAiB,GAAtB,CC3KiB,ED2KjB,cAzLoC,KAyL1B,KAAL,GAAiB,GAAtB,
CC3KiB,C;O;KDpBpD,C;0FAOA,yB;MA+KA,6B;MCxKA,kD;MDPA,wB;QAMsD,OCMD,cD2KjB,cAAU,SA
L,GAAiB,GAAtB,CC3KiB,EC4KjB,cFnLqC,KEmL3B,KAAL,GAAiB,KAAtB,CD5KiB,C;O;KDbpD,C;0FAG
A,yB;MAwKA,6B;MCxKA,kD;MDAA,wB;QAMoD,OCAA,cD2KjB,cAAU,SAAL,GAAiB,GAAtB,CC3KiB,EDAk
B,KCAlB,C;O;KDNpD,C;0FAOA,yB;MA2KA,WAS6D,wB;MAT7D,+B;MiB3KA,oD;MjBAA,wB;QAMsD,OiBAA
,ejB8KjB,eAAW,oBAAL,SAAK,CAAL,UAAN,CiB9KiB,EjBAmB,KiBAnB,C;O;KjBNtD,C;oGAQA,yB;MAy
JA,6B;MC7LA,4C;MDoCA,wB;QAMiD,OCxCD,cD2KjB,cAAU,SAAL,GAAiB,GAAtB,CC3KiB,EDoMjB,cA5
JqC,KA4J3B,KAAL,GAAiB,GAAtB,CCpMiB,C;O;KDkCpD,C;oGAOA,yB;MAkJA,6B;MC7LA,4C;MD2CA,wB;
QAMkD,OC/CD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,ECqMjB,cFtJsC,KEsJ5B,KAAL,GAAiB,KAA
tB,CDrMiB,C;O;KDyCpD,C;oGAOA,yB;MA2IA,6B;MC7LA,4C;MDkDA,wB;QAMgD,OCtDD,cD2KjB,cAAU,SAAL,
SAAK,GAAiB,GAAtB,CC3KiB,EDsMjB,cAhJ2C,KAgJjC,KAAL,GAAiB,GAAtB,CCtMiB,C;O;KDgDlD,C;oGA
OA,yB;MAoIA,6B;MC7LA,4C;MDyDA,wB;QAMiD,OC7DD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDs
MjB,cFrH8B,KEqHpB,KAAL,GAAiB,KAAtB,CDtMiB,C;O;KDuDpD,C;oGAOA,yB;MAyHA,6B;MC7LA,4C;MDoE
A,wB;QAMkD,OCxED,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cA5GqC,KA4G3B,KAAL,GAAiB,GA
tB,CCvMiB,C;O;KDkEpD,C;oGAOA,yB;MA8GA,6B;MC7LA,4C;MD+EA,wB;QAMkD,OCnFD,cD2KjB,cAAU,SA
L,GAAiB,GAAtB,CC3KiB,EDuMjB,cFvGsC,KEuG5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KD0EpD,C;oGAOA,yB;MAmGA,6B;MC7LA,4C;MD0FA,wB;
QAMkD,OC9FD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFlFsC,KEkF5B,KAAL,GAAiB,KAA
tB,CDvMiB,C;O;KDqFpD,C;oGAOA,yB;MAwFA,6B;MC7LA,4C;MDqGA,wB;QAMkD,OCzGD,cD2KjB,cAAU,SAL
,GAAiB,GAAtB,CC3KiB,EDuMjB,cFbsC,KEa5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KDgGpD,C;oGAOA,yB;MA
6EA,6B;MC7LA,4C;MDgHA,wB;QAMkD,OCpHD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFR
sC,KEQ5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KD2GpD,C;oGAOA,yB;MAkEA,6B;MC7LA,4C;MD2HA,wB;
QAMkD,OC/HD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFHsC,KEG5B,KAAL,GAAiB,KAA
tB,CDvMiB,C;O;KDsHpD,C;oGAOA,yB;MAuDA,6B;MC7LA,4C;MDsIA,wB;QAMkD,OC1ID,cD2KjB,cAAU,SAL
,GAAiB,GAAtB,CC3KiB,EDuMjB,cFXsC,KEW5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KDiIpD,C;oGAOA,yB;MA
4CA,6B;MC7LA,4C;MDiJA,wB;QAMkD,OCrJD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFN
sC,KEM5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KD4IpD,C;oGAOA,yB;MAiCA,6B;MC7LA,4C;MDuJA,wB;
QAMkD,OCrJD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFDsC,KEC5B,KAAL,GAAiB,KAA
tB,CDvMiB,C;O;KDkJpD,C;oGAOA,yB;MAsBA,6B;MC7LA,4C;MD6JA,wB;QAMkD,OCjKD,cD2KjB,cAAU,SAL
,GAAiB,GAAtB,CC3KiB,EDuMjB,cFJsC,KEI5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KDwJpD,C;oGAOA,yB;MA
mBA,6B;MC7LA,4C;MDmKA,wB;QAMkD,OCvKD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFP
sC,KEO5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KD8JpD,C;oGAOA,yB;MAgBA,6B;MC7LA,4C;MDyKA,wB;
QAMkD,OC7KD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFVsC,KEU5B,KAAL,GAAiB,KAA
tB,CDvMiB,C;O;KDoKpD,C;oGAOA,yB;MAaA,6B;MC7LA,4C;MD+KA,wB;QAMkD,OCnLD,cD2KjB,cAAU,SAL
,GAAiB,GAAtB,CC3KiB,EDuMjB,cFbsC,KEa5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KD0KpD,C;oGAOA,yB;MA
UA,6B;MC7LA,4C;MDqLA,wB;QAMkD,OCzLD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFhB
sC,KEgB5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KDgLpD,C;oGAOA,yB;MAOA,6B;MC7LA,4C;MD2LA,wB;
QAMkD,OC/LD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFmBsC,KEmB5B,KAAL,GAAiB,KAA
tB,CDvMiB,C;O;KDsLpD,C;oGAOA,yB;MAIA,6B;MC7LA,4C;MDiMA,wB;QAMkD,OCrMD,cD2KjB,cAAU,SAL
,GAAiB,GAAtB,CC3KiB,EDuMjB,cFsBsC,KEsB5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KD4LpD,C;oGAOA,yB;MA
CA,6B;MC7LA,4C;MDuMA,wB;QAMkD,OC3MD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFyB
sC,KEyB5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KDkMpD,C;oGAOA,yB;MA8BA,6B;MC7LA,4C;MD6MA,wB;
QAMkD,OCjND,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cF4BsC,KE4B5B,KAAL,GAAiB,KAA
tB,CDvMiB,C;O;KDwMpD,C;oGAOA,yB;MA1BA,6B;MC7LA,4C;MDmNA,wB;QAMkD,OCvND,cD2KjB,cAAU,SAL
,GAAiB,GAAtB,CC3KiB,EDuMjB,cF+BsC,KE+B5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KD8MpD,C;oGAOA,yB;MA
uBA,6B;MC7LA,4C;MDyNA,wB;QAMkD,OC7ND,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFkC
sC,KEkC5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KDoNpD,C;oGAOA,yB;MAoBA,6B;MC7LA,4C;MD+NA,wB;
QAMkD,OCnOD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFqCsC,KEqC5B,KAAL,GAAiB,KAA
tB,CDvMiB,C;O;KD0NpD,C;oGAOA,yB;MAiBA,6B;MC7LA,4C;MDqOA,wB;QAMkD,OCzOD,cD2KjB,cAAU,SAL
,GAAiB,GAAtB,CC3KiB,EDuMjB,cFwCsC,KEwC5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KDgOpD,C;oGAOA,yB;MA
cA,6B;MC7LA,4C;MD2OA,wB;QAMkD,OC/OD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cF2C
sC,KE2C5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KDsOpD,C;oGAOA,yB;MAWA,6B;MC7LA,4C;MDiPA,wB;
QAMkD,OCrPD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cF8CsC,KE8C5B,KAAL,GAAiB,KAA
tB,CDvMiB,C;O;KD4OpD,C;oGAOA,yB;MAPA,6B;MC7LA,4C;MDuPA,wB;QAMkD,OC3PD,cD2KjB,cAAU,SAL
,GAAiB,GAAtB,CC3KiB,EDuMjB,cFiDsC,KEiD5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KDkPpD,C;oGAOA,yB;MA
IA,6B;MC7LA,4C;MD6PA,wB;QAMkD,OCjQD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFoD
sC,KEoD5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KDwPpD,C;oGAOA,yB;MAEA,6B;MC7LA,4C;MDmQA,wB;
QAMkD,OCvQD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFuDsC,KEuD5B,KAAL,GAAiB,KAA
tB,CDvMiB,C;O;KD8PpD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MDyQA,wB;QAMkD,OC7QD,cD2KjB,cAAU,SAL
,GAAiB,GAAtB,CC3KiB,EDuMjB,cF0DsC,KE0D5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KDoQpD,C;oGAOA,yB;MA
AA,6B;MC7LA,4C;MD+QA,wB;QAMkD,OCnRD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cF6D
sC,KE6D5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KD0QpD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MDqRA,wB;
QAMkD,OCzRD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFgEsC,KEgE5B,KAAL,GAAiB,KAA
tB,CDvMiB,C;O;KDgRpD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MD2RA,wB;QAMkD,OC/RD,cD2KjB,cAAU,SAL
,GAAiB,GAAtB,CC3KiB,EDuMjB,cFmEsC,KEmE5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KDsRpD,C;oGAOA,yB;MA
AA,6B;MC7LA,4C;MDiSA,wB;QAMkD,OCrSD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFsE
sC,KEsE5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KD4RpD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MDuSA,wB;
QAMkD,OC3SD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFyEsC,KEyE5B,KAAL,GAAiB,KAA
tB,CDvMiB,C;O;KDkSpD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MD6SA,wB;QAMkD,OCjTD,cD2KjB,cAAU,SAL
,GAAiB,GAAtB,CC3KiB,EDuMjB,cF4EsC,KE4E5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KDwSpD,C;oGAOA,yB;MA
AA,6B;MC7LA,4C;MDmTA,wB;QAMkD,OCvTD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cF+E
sC,KE+E5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KD8SpD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MDyTA,wB;
QAMkD,OC7TD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFkFsC,KEkF5B,KAAL,GAAiB,KAA
tB,CDvMiB,C;O;KDoTpD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MD+TA,wB;QAMkD,OCnUD,cD2KjB,cAAU,SAL
,GAAiB,GAAtB,CC3KiB,EDuMjB,cFqFsC,KEqF5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KD0TpD,C;oGAOA,yB;MA
AA,6B;MC7LA,4C;MDqUA,wB;QAMkD,OCzUD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFwF
sC,KEwF5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KDgUpD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MD2UA,wB;
QAMkD,OC/UD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cF2FsC,KE2F5B,KAAL,GAAiB,KAA
tB,CDvMiB,C;O;KDsUpD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MDiVA,wB;QAMkD,OCrVD,cD2KjB,cAAU,SAL
,GAAiB,GAAtB,CC3KiB,EDuMjB,cF8FsC,KE8F5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KD4UpD,C;oGAOA,yB;MA
AA,6B;MC7LA,4C;MDuVA,wB;QAMkD,OC3VD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFiG
sC,KEiG5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KDkVpD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MD6VA,wB;
QAMkD,OCjWD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFoGsC,KEoG5B,KAAL,GAAiB,KAA
tB,CDvMiB,C;O;KDwVpD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MDmWA,wB;QAMkD,OCvWD,cD2KjB,cAAU,SAL
,GAAiB,GAAtB,CC3KiB,EDuMjB,cFuGsC,KEuG5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KD8VpD,C;oGAOA,yB;MA
AA,6B;MC7LA,4C;MDyWA,wB;QAMkD,OC7WD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cF0G
sC,KE0G5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KDoWpD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MD+WA,wB;
QAMkD,OCnXD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cF2GsC,KE2G5B,KAAL,GAAiB,KAA
tB,CDvMiB,C;O;KD0WpD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MDqXA,wB;QAMkD,OCzXD,cD2KjB,cAAU,SAL
,GAAiB,GAAtB,CC3KiB,EDuMjB,cF4GsC,KE4G5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KDgXpD,C;oGAOA,yB;MA
AA,6B;MC7LA,4C;MD2XA,wB;QAMkD,OC/XD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cF6G
sC,KE6G5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KDsXpD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MDiYA,wB;
QAMkD,OCrYD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cF8GsC,KE8G5B,KAAL,GAAiB,KAA
tB,CDvMiB,C;O;KD4XpD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MDuYA,wB;QAMkD,OC3YD,cD2KjB,cAAU,SAL
,GAAiB,GAAtB,CC3KiB,EDuMjB,cF+GsC,KE+G5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KDkYpD,C;oGAOA,yB;MA
AA,6B;MC7LA,4C;MD6YA,wB;QAMkD,OCjZD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFgH
sC,KEgH5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KDwYpD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MDmZA,wB;
QAMkD,OCvZD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFiHsC,KEiH5B,KAAL,GAAiB,KAA
tB,CDvMiB,C;O;KD8YpD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MDyZA,wB;QAMkD,OC7ZD,cD2KjB,cAAU,SAL
,GAAiB,GAAtB,CC3KiB,EDuMjB,cFkHsC,KEkH5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KDoZpD,C;oGAOA,yB;MA
AA,6B;MC7LA,4C;MD+ZA,wB;QAMkD,OCnaD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFmH
sC,KEmH5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KD0ZpD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MDqaA,wB;
QAMkD,OCzaD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFoHsC,KEoH5B,KAAL,GAAiB,KAA
tB,CDvMiB,C;O;KDgapD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MD2aA,wB;QAMkD,OC/aD,cD2KjB,cAAU,SAL
,GAAiB,GAAtB,CC3KiB,EDuMjB,cFqHsC,KEqH5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KDsapD,C;oGAOA,yB;MA
AA,6B;MC7LA,4C;MDibA,wB;QAMkD,OCrbD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFsH
sC,KEsH5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KD4apD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MDubA,wB;
QAMkD,OC3bD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFuHsC,KEuH5B,KAAL,GAAiB,KAA
tB,CDvMiB,C;O;KDkbpD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MD6bA,wB;QAMkD,OCjcD,cD2KjB,cAAU,SAL
,GAAiB,GAAtB,CC3KiB,EDuMjB,cFwHsC,KExH5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KDwbpD,C;oGAOA,yB;MA
AA,6B;MC7LA,4C;MDmcA,wB;QAMkD,OCvcD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFyH
sC,KEyH5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KD8bpD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MDycA,wB;
QAMkD,OC7cD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cF0HsC,KE0H5B,KAAL,GAAiB,KAA
tB,CDvMiB,C;O;KDocpD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MD+cA,wB;QAMkD,OCndD,cD2KjB,cAAU,SAL
,GAAiB,GAAtB,CC3KiB,EDuMjB,cF2HsC,KE2H5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KD0cpD,C;oGAOA,yB;MA
AA,6B;MC7LA,4C;MDqdA,wB;QAMkD,OCzdD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cF4H
sC,KE4H5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KDgdpD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MD2dA,wB;
QAMkD,OC/dD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cF6HsC,KE6H5B,KAAL,GAAiB,KAA
tB,CDvMiB,C;O;KDsdpD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MDieA,wB;QAMkD,OCreD,cD2KjB,cAAU,SAL
,GAAiB,GAAtB,CC3KiB,EDuMjB,cF8HsC,KE8H5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KD4dpD,C;oGAOA,yB;MA
AA,6B;MC7LA,4C;MDufA,wB;QAMkD,OC3eD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cF+H
sC,KE+H5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KDkepD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MD6eA,wB;
QAMkD,OCjfD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFgIsC,KEgI5B,KAAL,GAAiB,KAA
tB,CDvMiB,C;O;KDwepD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MDmfA,wB;QAMkD,OCvfD,cD2KjB,cAAU,SAL
,GAAiB,GAAtB,CC3KiB,EDuMjB,cFiIsC,KEiI5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KD8epD,C;oGAOA,yB;MA
AA,6B;MC7LA,4C;MDygBA,wB;QAMkD,OC7gBD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFkI
sC,KEkI5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KDofpD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MD+gBA,wB;
QAMkD,OCnhBD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFmIsC,KEmI5B,KAAL,GAAiB,KAA
tB,CDvMiB,C;O;KD0gBpD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MDqhBA,wB;QAMkD,OCzhBD,cD2KjB,cAAU,SAL
,GAAiB,GAAtB,CC3KiB,EDuMjB,cFoIsC,KEoI5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KDghBpD,C;oGAOA,yB;MA
AA,6B;MC7LA,4C;MD2hBA,wB;QAMkD,OC/hBD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFqI
sC,KEqI5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KDshBpD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MDiiBA,wB;
QAMkD,OCriBD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFsIsC,KEsI5B,KAAL,GAAiB,KAA
tB,CDvMiB,C;O;KD4hBpD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MDujBA,wB;QAMkD,OC3jBD,cD2KjB,cAAU,SAL
,GAAiB,GAAtB,CC3KiB,EDuMjB,cFuIsC,KEuI5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KDkjBpD,C;oGAOA,yB;MA
AA,6B;MC7LA,4C;MD6jBA,wB;QAMkD,OCjkBD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFwI
sC,KExI5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KDwjBpD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MDmkBA,wB;
QAMkD,OCvkBD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFyIsC,KEyI5B,KAAL,GAAiB,KAA
tB,CDvMiB,C;O;KD8jBpD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MDylBA,wB;QAMkD,OC7lBD,cD2KjB,cAAU,SAL
,GAAiB,GAAtB,CC3KiB,EDuMjB,cF0IsC,KE0I5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KDolBpD,C;oGAOA,yB;MA
AA,6B;MC7LA,4C;MD+lBA,wB;QAMkD,OCnmBD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cF2I
sC,KE2I5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KD0lBpD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MDqmBA,wB;
QAMkD,OCzmBD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cF4IsC,KE4I5B,KAAL,GAAiB,KAA
tB,CDvMiB,C;O;KDgmBpD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MD2mBA,wB;QAMkD,OC/mBD,cD2KjB,cAAU,SAL
,GAAiB,GAAtB,CC3KiB,EDuMjB,cF6IsC,KE6I5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KDsmBpD,C;oGAOA,yB;MA
AA,6B;MC7LA,4C;MDinBA,wB;QAMkD,OCrnBD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cF8I
sC,KE8I5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KD4mBpD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MDunBA,wB;
QAMkD,OC3nBD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cF+IsC,KE+I5B,KAAL,GAAiB,KAA
tB,CDvMiB,C;O;KDknBpD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MD6nBA,wB;QAMkD,OCjoBD,cD2KjB,cAAU,SAL
,GAAiB,GAAtB,CC3KiB,EDuMjB,cFgJsC,KEgJ5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KDwnBpD,C;oGAOA,yB;MA
AA,6B;MC7LA,4C;MDmoBA,wB;QAMkD,OCvoBD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFiJ
sC,KEiJ5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KD8nBpD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MDypBA,wB;
QAMkD,OC7pBD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFkJsC,KEkJ5B,KAAL,GAAiB,KAA
tB,CDvMiB,C;O;KDopBpD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MD+pBA,wB;QAMkD,OCnqBD,cD2KjB,cAAU,SAL
,GAAiB,GAAtB,CC3KiB,EDuMjB,cFmJsC,KEmJ5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KD0pBpD,C;oGAOA,yB;MA
AA,6B;MC7LA,4C;MDqqBA,wB;QAMkD,OCzqBD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFoJ
sC,KEoJ5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KDgqBpD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MD2qBA,wB;
QAMkD,OC/qBD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFqJsC,KErJ5B,KAAL,GAAiB,KAA
tB,CDvMiB,C;O;KDsqBpD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MDirBA,wB;QAMkD,OCrrBD,cD2KjB,cAAU,SAL
,GAAiB,GAAtB,CC3KiB,EDuMjB,cFsJsC,KEtJ5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KD4qBpD,C;oGAOA,yB;MA
AA,6B;MC7LA,4C;MDurBA,wB;QAMkD,OC3rBD,cD2KjB,cAAU,SAAL,GAAiB,GAtB,CC3KiB,EDuMjB,cFuJ
sC,KEvJ5B,KAAL,GAAiB,KAAtB,CDvMiB,C;O;KDkrBpD,C;oGAOA,yB;MAAA,6B;MC7LA,4C;MD6r

A,mB;QAM0C,sBAAW,OAAL,SAAK,KAAX,C;O;KAN1C,C;kGAQA,yB;MAAA,8C;MAuEA,6B;MAvEA,wB;
QAE8D,0BA8E3B,cAAU,SAAL,GAAiB,GAAtB,CA9E2B,EA8E3B,cA9EoD,KA8E1C,KAAL,GAAiB,GAAtB,C
A9E2B,C;O;KAF9D,C;0FAIA,yB;MAAA,+B;M4LxOJ,0B;M5LwOI,wB;QAEmD,sB4LvOgC,O5LuO1B,IAAK,K
4LvOX,G5LuOoB,KAAM,K4LvOM,C5LuOhC,C;O;KAFnD,C;wFAGA,yB;MAAA,+B;M4LtOJ,0B;M5LsOI,wB;
QAEkD,sB4LrO+B,O5LqOzB,IAAK,K4LrOX,G5LqOmB,KAAM,K4LrOM,C5LqO/B,C;O;KAFlD,C;0FAGA,yB;
MAAA,+B;M4LpOJ,0B;M5LoOI,wB;QAEmD,sB4LnOgC,O5LmO1B,IAAK,K4LnOX,G5LmOoB,KAAM,K4Ln
OM,C5LmOhC,C;O;KAFnD,C;0EAGA,yB;MAAA,+B;M4LlOJ,0B;M5LkOI,mB;QAEiC,sB4LjOqB,OAAP,C5Li
OR,S4LjOe,C5LiOrB,C;O;KAFjC,C;gFAIA,Y;MASmC,gB;K;kFACnC,yB;M4L1OJ,4B;M5L0OI,mB;QASqC,O4
LhPiD,Q5LgP5C,S4LhPY,G5LgPE,G4LhP8B,C;O;K5LuOtF,C;8EAUA,Y;MASiC,OAAK,SAAL,GAAiB,G;K;gF
AClD,yB;MAAA,WASqD,wB;MATrD,mB;QASmC,OAAK,oBAAL,SAAK,CAAL,U;O;KATnC,C;kFAWA,Y;M
AEqC,W;K;oFACrC,yB;MAAA,iC;M4L5QJ,4B;M5L4QI,mB;QASuC,uB4LlR+C,Q5LkRnC,S4LlRG,G5LkRW,G
4LlRqB,C5LkR/C,C;O;KATvC,C;gFAUA,yB;MAAA,6B;MAAA,mB;QASmC,qBAAU,SAAL,GAAiB,GAAtB,C;
O;KATnC,C;kFAUA,yB;MAAA,WAS6D,wB;MAT7D,+B;MAAA,mB;QASqC,sBAAW,oBAAL,SAAK,CAAL,U
AAN,C;O;KATrC,C;kFAWA,Y;MAMqC,OApDC,SAAL,GAAiB,G;K;oFAqDlD,Y;MAMuC,OA3DD,SAAL,GA
AiB,G;K;+BA6DlD,Y;MAAyC,OAAQ,CA7DX,SAAL,GAAiB,GA6DD,Y;K;;;;;+BA1UrD,Y;MAAA,c;MAG4D,q
D;MAH5D,a;K;6BAAA,iB;MAAA,2IAG4D,oCAH5D,G;K;wEA8UA,yB;MAAA,+B;MAAA,4B;QAU0C,sBAAM
,SAAN,C;O;KAV1C,C;0EAWA,yB;MAAA,0B;MAAA,+B;MAAA,4B;QAW2C,sBAAW,OAAL,SAAK,CAAX,C;
O;KAX3C,C;0EAYA,yB;MAAA,0B;MAAA,+B;MAAA,4B;QAWyC,sBAAW,OAAL,SAAK,CAAX,C;O;KAXzC
,C;0EAYA,yB;MAAA,0B;MAAA,+B;MAAA,4B;QAW0C,sBAAW,OAAL,SAAK,SAAX,C;O;KAX1C,C;IgC9W
A,6B;MACqB,sB;K;uCAKjB,iB;MAM6C,OhCyUP,UgCzUO,aAAQ,KAAR,ChCyUP,C;K;uCgCvUtC,wB;MAOI,
aAAQ,KAAR,IAAiB,KhCiOc,K;K;kFgC7NL,Y;MAAQ,OAAA,YAAQ,O;K;oCAE9C,Y;MAC8E,+BAAS,YAAT,
C;K;IAGxD,oC;MAAiC,wB;MAAhC,oB;MACnB,eAAoB,C;K;4CACpB,Y;MAAyB,sBAAQ,YAAM,O;K;8CACv
C,Y;MAAyD,Q;MAA9B,IAAI,eAAQ,YAAM,OAAlB,C;QAAA,OhCmTO,UgCnTiB,aAAM,mBAAN,EAAM,2B
AAN,OhCmTjB,C;;QgCnT+C,MAAM,2BAAuB,YAAM,WAA7B,C;K;;0CAG3F,mB;MAIS,Q;MAAL,IAAI,eAA
C,0EAAD,QAAJ,C;QAAiC,OAAO,K;MAExC,OAAe,WAAR,YAAQ,EAAS,OhC2MO,KgC3MhB,C;K;+CAGnB,
oB;MACY,Q;MAA2B,gBAA3B,gE;MAA2B,c;;Qd0nDvB,U;QADhB,IAAI,wCAAsB,mBAA1B,C;UAAqC,aAAO,
I;UAAP,e;SACrB,6B;QAAhB,OAAgB,gBAAhB,C;UAAgB,2B;Uc1nD6B,2Bd0nDR,Oc1nDQ,Q;UAAA,W;YAAu
B,oBAAR,YAAQ,Ed0nD/B,OlBn7CF,KgCvMiC,C;Wd0nD9C,IAAI,OAAJ,C;YAAyB,aAAO,K;YAAP,e;;QAC/C,
aAAO,I;;;Mc3nDH,iB;K;mCAGJ,Y;MAAkC,OAAA,IAAK,QAAQ,OAAb,KAAqB,C;K;;IA/CvD,sC;MAAA,oD;
MACgC,uBAAK,cAAU,IAAV,CAAL,C;MADhC,Y;K;;;;oCAPJ,Y;MAAA,OAKqB,qDALrB,M;K;oCAAA,Y;MA
AA,c;MAKqB,wD;MALrB,a;K;kCAAA,iB;MAAA,2IAKqB,0CALrB,G;K;gFAyDA,yB;MAAA,yC;MAWsC,yC;
QAAA,wB;UAAW,OAAA,aAAK,KAAL,ChCsLV,K;S;O;MgCjMvC,6B;QAWI,OAAO,oBAAW,+BAAU,IAAV,
GAAgB,uBAAhB,CAAX,C;O;KAXX,C;kFAcA,oB;MAGqE,e;K;I/BtE7C,oB;MAEpB,4B;MAFuD,gB;K;IAEvD,0
B;MAAA,8B;MACI,iBAGmC,SAAK,CAAL,C;MAEnC,iBAGmC,SAAK,EAAL,C;MAEnC,kBAGmC,C;MAEnC,
iBAGkC,E;K;;;IAnBtC,sC;MAAA,qC;QAAA,oB;OAAA,8B;K;oGAsBA,yB;MD2QA,6B;MC3PA,8C;MAhBA,wB
;QAM0D,OAiBQ,YAAY,IAAK,KAAjB,EAA6B,CD6P5D,cC9QsC,KD8Q5B,KAAL,GAAiB,GAAtB,CC7P4D,M
AA7B,C;O;KAvBlE,C;oGAQA,yB;MCoQA,6B;MD5PA,8C;MARA,wB;QAM2D,OASO,YAAY,IAAK,KAAjB,E
AA6B,CC8P5D,cDvQuC,KCuQ7B,KAAL,GAAiB,KAAtB,CD9P4D,MAA7B,C;O;KAflE,C;gGAQA,yB;MAAA,8
C;MAAA,wB;QAOkE,mBAAY,IAAK,KAAjB,EAAuB,KAAM,KAA7B,C;O;KAPlE,C;oGASA,yB;MAgRA,kBA
S6D,sB;MAT7D,+B;MgBjRA,gD;MhBCA,wB;QAM0D,OgBAS,aAAkB,ChBmRhD,eAAW,oBAAL,SAAK,CAA
L,iBAAN,CgBnRgD,MAAlB,EhBAgB,KgBAc,KAA9B,C;O;KhBNnE,C;0FAQA,yB;MD0OA,6B;MC1OA,wB;Q
AEsD,OAMD,cAAK,IAAK,KAAK,GAAW,CD2O5C,cCjP6B,KDiPnB,KAAL,GAAiB,GAAtB,CC3O4C,MAAX,I
AAf,C;O;KARrD,C;0FAGA,yB;MCwOA,6B;MDxOA,wB;QAEuD,OAGF,cAAK,IAAK,KAAK,GAAW,CC4O5C,
cD/O8B,KC+OpB,KAAL,GAAiB,KAAtB,CD5O4C,MAAX,IAAf,C;O;KALrD,C;0FAGA,yB;MAAA,6B;MAAA,
wB;QAEqD,qBAAK,IAAK,KAAK,GAAK,KAAM,KAAX,IAAf,C;O;KAFrD,C;0FAGA,yB;MA+PA,kBAS6D,sB;
MAT7D,+B;MA/PA,wB;QAEuD,OgBAA,eAAW,ChBsQ7B,eAAW,oBAAL,SAAK,CAAL,iBAAN,CgBtQ6B,MA
AK,KhBAI,KgBAO,KAAX,CAAhB,C;O;KhBFvD,C;4FAIA,yB;MD6NA,6B;MC7NA,wB;QAEuD,OAMD,cAAK
,IAAK,KAAK,GAAY,CD8N9C,cCpO+B,KDoOrB,KAAL,GAAiB,GAAtB,CC9N8C,MAAZ,IAAf,C;O;KARtD,C;

4FAGA,yB;MC2NA,6B;MD3NA,wB;QAEwD,OAGF,cAAK,IAAK,KAAK,GAAY,CC+N9C,cDlOgC,KCkOtB,KAAL,GAAiB,KAAtB,CD/N8C,MAAZ,IAAf,C;O;KALtD,C;4FAGA,yB;MAAA,6B;MAAA,wB;QAEsD,qBAAK,IAAK,KAAK,GAAM,KAAM,KAAZ,IAAf,C;O;KAFtD,C;4FAGA,yB;MAkPA,kBAS6D,sB;MAT7D,+B;MAlPA,wB;QAEwD,OgBAA,eAAW,ChByP9B,eAAW,oBAAL,SAAK,CAAL,iBAAN,CgBzP8B,MAAK,UhBAK,KgBAO,KAAZ,CAAhB,C;O;KhBFxD,C;4FAIA,yB;MDgNA,6B;MChNA,wB;QAEuD,OAMD,cAAe,YAAV,IAAK,KAAK,EAAY,CDiN9C,cCvN+B,KDuNrB,KAAL,GAAiB,GAAtB,CCjN8C,MAAZ,CAAf,C;O;KARtD,C;4FAGA,yB;MC8MA,6B;MD9MA,wB;QAEwD,OAGF,cAAe,YAAV,IAAK,KAAK,EAAY,CCkN9C,cDrNgC,KCqNtB,KAAL,GAAiB,KAAtB,CDlN8C,MAAZ,CAAf,C;O;KALtD,C;4FAGA,yB;MAAA,6B;MAAA,wB;QAEsD,qBAAe,YAAV,IAAK,KAAK,EAAM,KAAM,KAAZ,CAAf,C;O;KAFtD,C;4FAGA,yB;MAqOA,kBAS6D,sB;MAT7D,+B;MArOA,wB;QAEwD,OgBAA,eAAW,ChB4O9B,eAAW,oBAAL,SAAK,CAAL,iBAAN,CgB5O8B,MAAK,UhBAK,KgBAO,KAAZ,CAAhB,C;O;KhBFxD,C;wFAIA,yB;MDmMA,6B;MC7LA,4C;MANA,wB;QAEqD,OAMD,WAAW,IAAX,EDoMjB,cC1M2B,KD0MjB,KAAL,GAAiB,GAAtB,CCpMiB,C;O;KARpD,C;wFAGA,yB;MCiMA,6B;MD9LA,4C;MAHA,wB;QAEsD,OAGF,WAAW,IAAX,ECqMjB,cDxM4B,KCwMlB,KAAL,GAAiB,KAAtB,CDrMiB,C;O;KALpD,C;wFAGA,yB;MAAA,4C;MAAA,wB;QAEoD,kBAAW,IAAX,EAAAiB,KAAjB,C;O;KAFpD,C;wFAGA,yB;MAwNA,kBAS6D,sB;MAT7D,+B;MgBxNA,8C;MhBAA,wB;QAEsD,OgBAA,YhB+NjB,eAAW,oBAAL,SAAK,CAAL,iBAAN,CgB/NiB,EhBAmB,KgBAnB,C;O;KhBFtD,C;wFAIA,yB;MDsLA,6B;MCxKA,kD;MAdA,wB;QAMqD,OAcD,cAAc,IAAd,ED2KjB,cCzL2B,KDyLjB,KAAL,GAAiB,GAAtB,CC3KiB,C;O;KApBpD,C;wFAOA,yB;MCgLA,6B;MDzKA,kD;MAPA,wB;QAMsD,OAOF,cAAc,IAAd,EC4KjB,cDnL4B,KCmLlB,KAAL,GAAiB,KAAtB,CD5KiB,C;O;KAbpD,C;wFAOA,yB;MAAA,kD;MAAA,wB;QAMoD,qBAAc,IAAd,EAAAoB,KAApB,C;O;KANpD,C;wFAOA,yB;MA+LA,kBAS6D,sB;MAT7D,+B;MgB/LA,oD;MhBAA,wB;QAMsD,OgBAA,ehBkMjB,eAAW,oBAAL,SAAK,CAAL,iBAAN,CgBlMiB,EhBAmB,KgBAnB,C;O;KhBNtD,C;kGAQA,yB;MDyJA,6B;MC7LA,4C;MAoCA,wB;QAMiD,OAxCG,WAAW,IAAX,EDoMjB,cC5J4B,KD4JlB,KAAL,GAAiB,GAAtB,CCpMiB,C;O;KAkCpD,C;kGAOA,yB;MCmJA,6B;MD9LA,4C;MA2CA,wB;QAMkD,OA/CE,WAAW,IAAX,ECqMjB,cDtJ6B,KCsJnB,KAAL,GAAiB,KAAtB,CDrMiB,C;O;KAyCpD,C;kGAOA,yB;MAlDA,4C;MAkDA,wB;QAMgD,OAxDI,WAAW,IAAX,EAAsDA,KAAtDA,C;O;KAgDpD,C;kGAOA,yB;MAkKA,kBAS6D,sB;MAT7D,+B;MgBxNA,8C;MhBsDA,wB;QAMkD,OgBB1DI,YhB+NjB,eAAW,oBAAL,SAAK,CAAL,iBAAN,CgB/NiB,EhB0DoB,KgB1DpB,C;O;KhBoDtD,C;wFAQA,yB;MD4HA,6B;MCxKA,kD;MDuOJ,0B;MAAA,+B;MC3LI,wB;QAQ6C,OD8LR,eAAW,OC5OI,cAAc,IAAd,ED2KjB,cC7H7B,KD6HT,KAAL,GAAiB,GAAtB,CC3KiB,CAkLf,KD0DW,CAAX,C;O;KCtMrC,C;wFASA,yB;MCoHA,6B;MDzKA,kD;MCwOJ,4B;MAAA,iC;MDnLI,wB;QAQ+C,OCsLR,gBAAY,QD7OC,cAAc,IAAd,EC4KjB,cDrHqB,KCqHX,KAAL,GAAiB,KAAtB,CD5KiB,CA4Lb,KCiDY,CAAZ,C;O;KD9LvC,C;wFASA,yB;MA9DA,kD;MA8DA,wB;QAQ2C,OAhES,cAAc,IAAd,EAgEL,KAhEK,C;O;KAwDpD,C;wFASA,yB;MA+HA,kBAS6D,sB;MAT7D,+B;MgB/LA,oD;MhBgEA,wB;QAQ6C,OgBlES,ehBkMjB,eAAW,oBAAL,SAAK,CAAL,iBAAN,CgBlMiB,EhBkEU,KgBlEV,C;O;KhB0DtD,C;wEAUA,yB;MAAA,6B;MAAA,mB;QAMyC,qBAAK,SAAK,QAAV,C;O;KANzC,C;wEAQA,yB;MAAA,6B;MAAA,mB;QAMyC,qBAAK,SAAK,QAAV,C;O;KANzC,C;gGAQA,yB;MAAA,8C;MAAA,wB;QAE6D,0BAAU,IAAV,EAAAgB,KAAAhB,C;O;KAF7D,C;wFAIA,yB;MAAA,6B;MAAA,2B;QAOmD,qBAAK,aAAS,QAAd,C;O;KAPnD,C;wFASA,yB;MAAA,6B;MAAA,2B;QAOmD,qBAAK,cAAU,QAAf,C;O;KAPnD,C;wFASA,yB;MAAA,6B;MAAA,wB;QAEiD,qBAAK,IAAK,KAAL,GAAc,KAAM,KAAzB,C;O;KAFjD,C;sFAGA,yB;MAAA,6B;MAAA,wB;QAEgD,qBAAK,IAAK,KAAL,GAAa,KAAM,KAAxB,C;O;KAFhD,C;wFAGA,yB;MAAA,6B;MAAA,wB;QAEiD,qBAAK,IAAK,KAAL,GAAc,KAAM,KAAzB,C;O;KAFjD,C;wEAGA,yB;MAAA,6B;MAAA,mB;QAEgC,qBAAU,CAAL,SAAL,C;O;KAFhC,C;8EAIA,yB;MAAA,0B;MAAA,mB;QAUmC,OAAK,OAAL,SAAK,C;O;KAVnC,C;gFAWA,yB;MAAA,4B;MAAA,mB;QAUqC,OAAK,QAAL,SAAK,C;O;KAV1C,C;4EAWA,Y;MASiC,gB;K;8EACjC,yB;MAAA,kBASqD,sB;MATrD,mB;QASmC,OAAK,oBAAL,SAAK,CAAL,iB;O;KATnC,C;gFAWA,yB;MDwDJ,0B;MAAA,+B;MCxDI,mB;QASqC,OD0DA,eAAW,OC1DX,SD0DW,CAAX,C;O;KCnErC,C;kFAUA,yB;MC+CJ,4B;MAAA,iC;MD/CI,mB;QASuC,OCiDA,gBAAY,QDjDZ,SCiDY,CAAZ,C;O;KD1DvC,C;8EAUA,Y;MAEmC,W;K;gFACnC,yB;MAAA,kBAS6D,sB;MAT7D,+B;MAAA,mB;QASqC,sBAAW,oBAAL,SAAK,CAAL,iBAAN,C;O;KATrC,C;gFAWA,yB;MASA,gD;MATA,mB;QAQqC,OAOE,aAAa,SAAb,C;O;KAfvC,C;kFASA,yB;MAAA,gD;MAAA,mB;QAMuC,oBAAa,SAAb,C;O;KANvC,C;8BAQA,Y;MAAyC,OArDD,oBAAL,SAAK,CAAL,iBAqDe,W;K;;;;;8BAhWtD,Y;M

AAA,c;MAG2D,qD;MAH3D,a;K;4BAAA,iB;MAAA,2IAG2D,oCAH3D,G;K;sEAoWA,yB;MAAA,6B;MAAA,4B
;QAWwC,qBAAU,SAAV,C;O;KAXxC,C;wEAYA,yB;MAAA,6B;MAAA,4B;QAWyC,qBAAU,SAAV,C;O;KAX
zC,C;wEAYA,yB;MAAA,6B;MAAA,4B;QAUuC,qBAAK,SAAL,C;O;KAVvC,C;wEAWA,yB;MAAA,6B;MAAA
,4B;QAWwC,qBAAK,SAAK,QAAV,C;O;KAXxC,C;uEAaA,yB;MAAA,gD;MAAA,4B;QASyC,oBAAkB,SAAlB,
C;O;KATzC,C;wEAUA,yB;MAAA,gD;MAAA,4B;QAS0C,oBAAa,SAAb,C;O;KAT1C,C;IgC3ZA,4B;MACqB,sB
;K;sCAKjB,iB;MAM4C,OhCuXT,SgCvXS,aAAQ,KAAR,ChCuXT,C;K;sCgCrXnC,wB;MAOI,aAAQ,KAAR,IAA
iB,KhCyQY,K;K;iFgCrQH,Y;MAAQ,OAAA,YAAQ,O;K;mCAE9C,Y;MAC6E,8BAAS,YAAT,C;K;IAGvD,mC;
MAAgC,uB;MAA/B,oB;MACnB,eAAoB,C;K;2CACpB,Y;MAAyB,sBAAQ,YAAM,O;K;4CACvC,Y;MAAwD,Q;
MAA9B,IAAI,eAAQ,YAAM,OAAlB,C;QAAA,OhCiWK,SgCjWmB,aAAM,mBAAN,EAAM,2BAAN,OhCiWnB,
C;;QgCjWgD,MAAM,2BAAuB,YAAM,WAA7B,C;K;;yCAGzF,mB;MAIS,Q;MAAL,IAAI,eAAC,0EAAD,OAAJ,
C;QAAgC,OAAO,K;MAEvC,OAAe,WAAR,YAAQ,EAAS,OhCmPK,KgCnPd,C;K;8CAGnB,oB;MACY,Q;MAA
2B,gBAA3B,gE;MAA2B,c;;Qf0nDvB,U;QADhB,IAAI,wCAAsB,mBAA1B,C;UAAqC,aAAO,I;UAAP,e;SACrB,6
B;QAAhB,OAAgB,gBAAhB,C;UAAgB,2B;Ue1nD6B,2Bf0nDR,Oe1nDQ,O;UAAA,W;YAAsB,oBAAR,YAAQ,E
f0nD9B,OjB34CJ,KgC/OkC,C;Wf0nD7C,IAAI,OAAJ,C;YAAyB,aAAO,K;YAAP,e;;QAC/C,aAAO,I;;;Me3nDH,i
B;K;kCAGJ,Y;MAAkC,OAAA,IAAK,QAAQ,OAAb,KAAqB,C;K;;IA/CvD,qC;MAAA,mD;MACgC,sBAAK,eAA
S,IAAT,CAAL,C;MADhC,Y;K;;;;mCAPJ,Y;MAAA,OAKqB,oDALrB,M;K;mCAAA,Y;MAAA,c;MAKqB,wD;M
ALrB,a;K;iCAAA,iB;MAAA,2IAKqB,0CALrB,G;K;8EAyDA,yB;MAAA,uC;MAWoC,wC;QAAA,wB;UAAW,O
AAA,aAAK,KAAL,ChC8NV,K;S;O;MgCzOrC,6B;QAWI,OAAO,mBAAU,gCAAS,IAAT,GAAe,sBAAf,CAAV,
C;O;KAXX,C;gFAcA,oB;MAGkE,e;K;I4LnE5C,wC;MAsBlB,iC;MAtBsD,2BAAgB,KAAhB,EAAuB,YAAvB,EA
AqC,CAArC,C;K;kFAC7B,Y;MAAQ,iB;K;yFACD,Y;MAAQ,gB;K;2CAExC,iB;MAA8C,W5NwCoB,Y4NxCpB,
U5NwCqC,KAAjB,E4NxCX,K5NwCwC,KAA7B,C4NxCpB,K;MAAA,S;QAAkB,O5NwCE,Y4NxCF,K5NwCmB
,KAAjB,E4NxCO,S5NwCsB,KAA7B,C4NxCF,K;OAAlB,W;K;kCAE9C,Y;MAKkC,O5NiCgC,Y4NjChC,U5NiCi
D,KAAjB,E4NjCxB,S5NiCqD,KAA7B,C4NjChC,I;K;iCAElC,iB;MAEY,UAAwB,M;MADhC,2CAAuB,kBAAa,
KAAM,UAAnB,KACf,2CAAS,KAAM,MAAf,cAAwB,6CAAQ,KAAM,KAAd,QAAxB,CADe,CAAvB,C;K;mCA
GJ,Y;MACI,OAAI,cAAJ,GAAe,EAAf,GAAwB,MAAK,U5NyQA,K4NzQL,QAAqB,S5NyQhB,K4NzQL,I;K;mC
AE5B,Y;MAAkC,OAAE,UAAF,qBAAU,S;K;IAE5C,+B;MAAA,mC;MACI,aAC8B,cAAU,4BAAK,UAAf,EAA0
B,4BAAK,UAA/B,C;K;;;IAFlC,2C;MAAA,0C;QAAA,yB;OAAA,mC;K;;IAYJ,oD;MA4CI,uC;MAtCI,IAAI,SAA
Q,CAAZ,C;QAAuB,MAAa,gCAAyB,wBAAzB,C;MACpC,IAAI,SAAQ,WAAZ,C;QAA2B,MAAa,gCAAyB,wEA
AzB,C;MAG5C,aAGyB,K;MAEzB,YAGwB,4BAA0B,KAA1B,EAAiC,YAAjC,EAA+C,IAA/C,C,C;MAExB,YAGu
B,I;K;yCAEvB,Y;MAAgD,mCAAwB,UAAxB,EAA+B,SAA/B,EAAqC,SAArC,C;K;wCAEhD,Y;MAMqC,OAAI,
YAAO,CAAX,G5NvB6B,Y4NuBf,U5NvBgC,KAAjB,E4NuBP,S5NvBoC,KAA7B,C4NuBf,IAAd,G5NvB6B,Y4N
uBG,U5NvBc,KAAjB,E4NuBW,S5NvBkB,KAA7B,C4NuBG,I;K;uCAErE,iB;MAEY,UAAwB,M;MADhC,iDAA
6B,kBAAa,KAAM,UAAnB,KACrB,2CAAS,KAAM,MAAf,cAAwB,6CAAQ,KAAM,KAAd,QAAxB,KAA8C,cA
AQ,KAAM,KADvC,CAA7B,C;K;yCAGJ,Y;MACI,OAAI,cAAJ,GAAe,EAAf,GAAwB,OAAM,MAAK,U5NiNN,
K4NjNC,QAAqB,S5NiNtB,K4NjNC,IAAN,SAAgD,SAAhD,I;K;yCAE5B,Y;MAAkC,OAAI,YAAO,CAAX,GAA
gB,UAAF,qBAAU,SAAV,cAAqB,SAAnC,GAAgD,UAAF,2BAAgB,SAAhB,eAA4B,CAAC,SAD,IAA5B,C;K;I
AEhF,qC;MAAA,yC;K;kEACI,sC;MAQ2F,2BAAgB,UAAhB,EAA4B,QAA5B,EAAsC,IAAtC,C;K;;;IAT/F,iD;M
AAA,gD;QAAA,+B;OAAA,yC;K;;IAoBiC,oD;MAAuC,uB;MACxE,sBAA2B,I;MAC3B,iBAAmC,OAAO,CAA1
C,G5NxDkE,Y4NwDrB,K5NxDsC,KAAjB,E4NwDZ,I5NxDyC,KAA7B,C4NwDrB,KAA7C,G5NxDkE,Y4NwDF,
K5NxDmB,KAAjB,E4NwDO,I5NxDsB,KAA7B,C4NwDF,K;MAChE,c5N2RmC,S4N3RhB,I5N2RgB,C;M4N1Rn
C,cAAuB,cAAJ,GAAa,KAAb,GAAwB,mB;K;gDAE3C,Y;MAAkC,qB;K;iDAElC,Y;MACI,YAAY,W;MACZ,IA
AI,6BAAS,mBAAT,QAAJ,C;QACI,IAAI,CAAC,cAAL,C;UAAc,MAAa,6B;QAC3B,iBAAU,K;;QAEV,c5NlD6C,
S4NkD7C,W5NlDuD,KAAK,G4NkDpD,W5NlD+D,KAAX,IAAf,C;;M4NoDjD,OAAO,K;K;;IC3Hf,yB;K;mCAII,
Y;MAA4B,uB;K;;IAMhC,0B;K;oCAII,Y;MAA4B,wB;K;;IAMhC,wB;K;kCAII,Y;MAA4B,sB;K;;IAMhC,yB;K;m
CAII,Y;MAA4B,uB;K;;I7M5BP,qB;MAErB,6B;MAFwD,gB;K;IAExD,2B;MAAA,+B;MACI,iBAGoC,a;MAEpC,
iBAGoC,c;MAEpC,kBAGmC,C;MAEnC,iBAGkC,E;K;;;IAnBtC,uC;MAAA,sC;QAAA,qB;OAAA,+B;K;sGAsBA
,yB;MjBqRA,WAS6D,wB;MAT7D,+B;MiB7PA,gD;MAxBA,wB;QAM0D,OAyBS,aAAa,IAAK,KAAlB,EAA8B,
CjB+P5D,eAAW,oBiBxRyB,KjBwR9B,KAAK,CAAL,UAAN,CiB/P4D,MAA9B,C;O;KA/BnE,C;sGAQA,yB;Mf8

QA,aAS6D,0B;MAT7D,+B;Me9PA,gD;MAhBA,wB;QAM2D,OAiBQ,aAAa,IAAK,KAAlB,EAA8B,CfgQ5D,eAA
W,oBejR0B,KfiR/B,KAAK,CAAL,YAAN,CehQ4D,MAA9B,C;O;KAvBnE,C;sGAQA,yB;MhByRA,kBAS6D,sB;
MAT7D,+B;MgBjRA,gD;MARA,wB;QAMyD,OASU,aAAa,IAAK,KAAlB,EAA8B,ChBmR5D,eAAW,oBgB5Rw
B,KhB4R7B,KAAK,CAAL,iBAAN,CgBnR4D,MAA9B,C;O;KAfnE,C;kGAQA,yB;MAAA,gD;MAAA,wB;QAO
mE,oBAAa,IAAK,KAAlB,EAAwB,KAAM,KAA9B,C;O;KAPnE,C;4FASA,yB;MjBoPA,WAS6D,wB;MAT7D,+B
;MiBpPA,wB;QAEuD,OASA,eAAM,IAAK,KAAK,KAAW,CjBkP7C,eAAW,oBiB3PiB,KjB2PtB,KAAK,CAAL,
UAAN,CiBlP6C,MAAX,CAAhB,C;O;KAXvD,C;4FAGA,yB;MfkPA,aAS6D,0B;MAT7D,+B;MelPA,wB;QAEwD
,OAMD,eAAM,IAAK,KAAK,KAAW,CfmP7C,eAAW,oBezPkB,KfyPvB,KAAK,CAAL,YAAN,CenP6C,MAAX,
CAAhB,C;O;KARvD,C;4FAGA,yB;MhBkQA,kBAS6D,sB;MAT7D,+B;MgBlQA,wB;QAEsD,OAGC,eAAM,IAA
K,KAAK,KAAW,ChBsQ7C,eAAW,oBgBzQgB,KhByQrB,KAAK,CAAL,iBAAN,CgBtQ6C,MAAX,CAAhB,C;O;
KALvD,C;4FAGA,yB;MAAA,+B;MAAA,wB;QAEuD,sBAAM,IAAK,KAAK,KAAK,KAAM,KAAX,CAAhB,C;
O;KAFvD,C;8FAIA,yB;MjBuOA,WAS6D,wB;MAT7D,+B;MiBvOA,wB;QAEwD,OASA,eAAM,IAAK,KAAK,U
AAY,CjBqO/C,eAAW,oBiB9OmB,KjB8OxB,KAAK,CAAL,UAAN,CiBrO+C,MAAZ,CAAhB,C;O;KAXxD,C;8F
AGA,yB;MfqOA,aAS6D,0B;MAT7D,+B;MerOA,wB;QAEyD,OAMD,eAAM,IAAK,KAAK,UAAY,CfsO/C,eAA
W,oBe5OoB,Kf4OzB,KAAK,CAAL,YAAN,CetO+C,MAAZ,CAAhB,C;O;KARxD,C;8FAGA,yB;MhBqPA,kBAS
6D,sB;MAT7D,+B;MgBrPA,wB;QAEuD,OAGC,eAAM,IAAK,KAAK,UAAY,ChByP/C,eAAW,oBgB5PkB,KhB4
PvB,KAAK,CAAL,iBAAN,CgBzP+C,MAAZ,CAAhB,C;O;KALxD,C;8FAGA,yB;MAAA,+B;MAAA,wB;QAEw
D,sBAAM,IAAK,KAAK,UAAM,KAAM,KAAZ,CAAhB,C;O;KAFxD,C;8FAIA,yB;MjB0NA,WAS6D,wB;MAT7
D,+B;MiB1NA,wB;QAEwD,OASA,eAAM,IAAK,KAAK,UAAY,CjBwN/C,eAAW,oBiBjOmB,KjBiOxB,KAAK,
CAAL,UAAN,CiBxN+C,MAAZ,CAAhB,C;O;KAXxD,C;8FAGA,yB;MfwNA,aAS6D,0B;MAT7D,+B;MexNA,w
B;QAEyD,OAMD,eAAM,IAAK,KAAK,UAAY,CfyN/C,eAAW,oBe/NoB,Kf+NzB,KAAK,CAAL,YAAN,CezN+
C,MAAZ,CAAhB,C;O;KARxD,C;8FAGA,yB;MhBwOA,kBAS6D,sB;MAT7D,+B;MgBxOA,wB;QAEuD,OAGC,
eAAM,IAAK,KAAK,UAAY,ChB4O/C,eAAW,oBgB/OkB,KhB+OvB,KAAK,CAAL,iBAAN,CgB5O+C,MAAZ,C
AAhB,C;O;KALxD,C;8FAGA,yB;MAAA,+B;MAAA,wB;QAEwD,sBAAM,IAAK,KAAK,UAAM,KAAM,KAAZ
,CAAhB,C;O;KAFxD,C;0FAIA,yB;MjB6MA,WAS6D,wB;MAT7D,+B;MiBpMA,8C;MATA,wB;QAEsD,OASA,
YAAY,IAAZ,EjB2MjB,eAAW,oBiBpNe,KjBoNpB,KAAK,CAAL,UAAN,CiB3MiB,C;O;KAXtD,C;0FAGA,yB;
Mf2MA,aAS6D,0B;MAT7D,+B;MerMA,8C;MANA,wB;QAEuD,OAMD,YAAY,IAAZ,Ef4MjB,eAAW,oBelNgB,
KfkNrB,KAAK,CAAL,YAAN,Ce5MiB,C;O;KARtD,C;0FAGA,yB;MhB2NA,kBAS6D,sB;MAT7D,+B;MgBxNA,
8C;MAHA,wB;QAEqD,OAGC,YAAY,IAAZ,EhB+NjB,eAAW,oBgBlOc,KhBkOnB,KAAK,CAAL,iBAAN,CgB/
NiB,C;O;KALtD,C;0FAGA,yB;MAAA,8C;MAAA,wB;QAEsD,mBAAY,IAAZ,EAAkB,KAAlB,C;O;KAFtD,C;0F
AIA,yB;MjBgMA,WAS6D,wB;MAT7D,+B;MiB3KA,oD;MArBA,wB;QAMsD,OAqBA,eAAe,IAAf,EjB8KjB,eA
AW,oBiBnMe,KjBmMpB,KAAK,CAAL,UAAN,CiB9KiB,C;O;KA3BtD,C;0FAOA,yB;Mf0LA,aAS6D,0B;MAT7
D,+B;Me5KA,oD;MAdA,wB;QAMuD,OAcD,eAAe,IAAf,Ef+KjB,eAAW,oBe7LgB,Kf6LrB,KAAK,CAAL,YAA
N,Ce/KiB,C;O;KApBtD,C;0FAOA,yB;MhBsMA,kBAS6D,sB;MAT7D,+B;MgB/LA,oD;MAPA,wB;QAMqD,OA
OC,eAAe,IAAf,EhBkMjB,eAAW,oBgBzMc,KhByMnB,KAAK,CAAL,iBAAN,CgBlMiB,C;O;KAbtD,C;0FAOA,
yB;MAAA,oD;MAAA,wB;QAMsD,sBAAe,IAAf,EAAqB,KAArB,C;O;KANtD,C;oGAQA,yB;MjBmKA,WAS6D,
wB;MAT7D,+B;MiBpMA,8C;MAiCA,wB;QAMkD,OArCI,YAAY,IAAZ,EjB2MjB,eAAW,oBiBtKgB,KjBsKrB,
KAAK,CAAL,UAAN,CiB3MiB,C;O;KA+BtD,C;oGAOA,yB;Mf6JA,aAS6D,0B;MAT7D,+B;MerMA,8C;MAwC
A,wB;QAMmD,OA5CG,YAAY,IAAZ,Ef4MjB,eAAW,oBehKiB,KfgKtB,KAAK,CAAL,YAAN,Ce5MiB,C;O;KA
sCtD,C;oGAOA,yB;MhByKA,kBAS6D,sB;MAT7D,+B;MgBxNA,8C;MA+CA,wB;QAMiD,OAnDK,YAAY,IAA
Z,EhB+NjB,eAAW,oBgB5Ke,KhB4KpB,KAAK,CAAL,iBAAN,CgB/NiB,C;O;KA6CtD,C;oGAOA,yB;MAtDA,8
C;MAsDA,wB;QAMkD,OA1DI,YAAY,IAAZ,EA0DA,KA1DA,C;O;KAoDtD,C;0FAQA,yB;MjBsIA,WAS6D,wB
;MAT7D,+B;MiB3KA,oD;MjB4OJ,0B;MAAA,+B;MiBvMI,wB;QAQ6C,OjB0MP,eAAW,OiBjPK,eAAe,IAAf,Ej
B8KjB,eAAW,oBiBvIM,KjBuIX,KAAK,CAAL,UAAN,CiB9KiB,CA4KjB,KjBqEY,SAAX,C;O;KiBlNtC,C;0FAS
A,yB;Mf8HA,aAS6D,0B;MAT7D,+B;Me5KA,oD;Mf6OJ,4B;MAAA,iC;Me/LI,wB;QAQ+C,OfkMP,gBAAY,QelP
E,eAAe,IAAf,Ef+KjB,eAAW,oBe/HQ,Kf+Hb,KAAK,CAAL,YAAN,Ce/KiB,CAsLf,Kf4Da,SAAZ,C;O;Ke1MxC,
C;0FASA,yB;MhBwIA,kBAS6D,sB;MAT7D,+B;MgB/LA,oD;MhBkQJ,6B;MgB3MI,wB;QAQ2C,OhB8MP,cgBv
QkB,eAAe,IAAf,EhBkMjB,eAAW,oBgBzII,KhByIT,KAAK,CAAL,iBAAN,CgBlMiB,CAgMnB,KhBuEW,QAAV

,C;O;KgBtNpC,C;0FASA,yB;MAhEA,oD;MAgEA,wB;QAQ6C,OAlES,eAAe,IAAf,EAkEL,KAlEK,C;O;KA0DtD
,C;0EAUA,yB;MAAA,+B;MAAA,mB;QAM0C,sBAAM,SAAK,MAAX,C;O;KAN1C,C;0EAQA,yB;MAAA,+B;
MAAA,mB;QAM0C,sBAAM,SAAK,MAAX,C;O;KAN1C,C;kGAQA,yB;MAAA,gD;MAAA,wB;QAE+D,2BAA
W,IAAX,EAAiB,KAAjB,C;O;KAF/D,C;0FAIA,yB;MAAA,+B;MAAA,2B;QAOoD,sBAAM,oBAAS,QAAT,CAA
N,C;O;KAPpD,C;0FASA,yB;MAAA,+B;MAAA,2B;QAOoD,sBAAM,6BAAU,QAAV,CAAN,C;O;KAPpD,C;0F
ASA,yB;MAAA,+B;MAAA,wB;QAEmD,sBAAM,IAAK,KAAL,KAAc,KAAM,KAApB,CAAN,C;O;KAFnD,C;w
FAGA,yB;MAAA,+B;MAAA,wB;QAEkD,sBAAM,IAAK,KAAL,IAAa,KAAM,KAAnB,CAAN,C;O;KAFlD,C;0F
AGA,yB;MAAA,+B;MAAA,wB;QAEmD,sBAAM,IAAK,KAAL,KAAc,KAAM,KAApB,CAAN,C;O;KAFnD,C;0
EAGA,yB;MAAA,+B;MAAA,mB;QAEiC,sBAAM,SAAK,MAAX,C;O;KAFjC,C;gFAIA,yB;MAAA,0B;MAAA,
mB;QAUmC,OAAK,OAAL,SAAK,S;O;KAVxC,C;kFAWA,yB;MAAA,4B;MAAA,mB;QAUqC,OAAK,QAAL,S
AAK,S;O;KAV1C,C;8EAWA,Y;MAUiC,OAAA,SAAK,Q;K;gFACtC,Y;MASmC,gB;K;kFAEnC,yB;MjBmEJ,0B;
MAAA,+B;MiBnEI,mB;QASqC,OjBqEC,eAAW,OiBrEZ,SjBqEY,SAAX,C;O;KiB9EtC,C;oFAUA,yB;Mf0DJ,4B;
MAAA,iC;Me1DI,mB;QASuC,Of4DC,gBAAY,Qe5Db,Sf4Da,SAAZ,C;O;KerExC,C;gFAUA,yB;MhBqEJ,6B;Mg
BrEI,mB;QASmC,OhBuEC,cgBvED,ShBuEW,QAAV,C;O;KgBhFpC,C;kFAUA,Y;MAEqC,W;K;kFAErC,yB;MA
SA,kD;MATA,mB;QAQqC,OASE,cAAc,SAAd,C;O;KAjBvC,C;oFASA,yB;MAAA,kD;MAAA,mB;QAQuC,qBA
Ac,SAAd,C;O;KARvC,C;+BAUA,Y;MAAyC,qBAAc,SAAd,C;K;;;;;+BAnW7C,Y;MAAA,c;MAG4D,qD;MAH5D
,a;K;6BAAA,iB;MAAA,2IAG4D,oCAH5D,G;K;wEAuWA,yB;MAAA,+B;MAAA,4B;QAW0C,sBAAW,oBAAL,
SAAK,CAAX,C;O;KAX1C,C;0EAYA,yB;MAAA,+B;MAAA,4B;QAW2C,sBAAW,oBAAL,SAAK,CAAX,C;O;K
AX3C,C;0EAYA,yB;MAAA,+B;MAAA,4B;QAWyC,sBAAW,oBAAL,SAAK,CAAX,C;O;KAXzC,C;0EAYA,yB;
MAAA,+B;MAAA,4B;QAU0C,sBAAM,SAAN,C;O;KAV1C,C;yEAYA,yB;MAAA,kD;MAAA,4B;QAS2C,qBAA
mB,SAAnB,C;O;KAT3C,C;0EAUA,yB;MAAA,kD;MAAA,4B;QAS4C,qBAAc,SAAd,C;O;KAT5C,C;IiB9ZA,6B;
MACqB,sB;K;uCAKjB,iB;MAM6C,OjBsYP,UiBtYO,aAAQ,KAAR,CjBsYP,C;K;uCiBpYtC,wB;MAOI,aAAQ,K
AAR,IAAiB,KjBoRc,K;K;kFiBhRL,Y;MAAQ,OAAA,YAAQ,O;K;oCAE9C,Y;MAC8E,+BAAS,YAAT,C;K;IAGx
D,oC;MAAiC,wB;MAAhC,oB;MACnB,eAAoB,C;K;4CACpB,Y;MAAyB,sBAAQ,YAAM,O;K;8CACvC,Y;MAA
yD,Q;MAA9B,IAAI,eAAQ,YAAM,OAAlB,C;QAAA,OjBgXO,UiBhXiB,aAAM,mBAAN,EAAM,2BAAN,OjBgX
jB,C;;QiBhX+C,MAAM,2BAAuB,YAAM,WAA7B,C;K;;0CAG3F,mB;MAIS,Q;MAAL,IAAI,eAAC,0EAAD,QA
AJ,C;QAAiC,OAAO,K;MAExC,OAAe,WAAR,YAAQ,EAAS,OjB8PO,KiB9PhB,C;K;+CAGnB,oB;MACY,Q;MA
A2B,gBAA3B,gE;MAA2B,c;;QhB0nDvB,U;QADhB,IAAI,wCAAsB,mBAA1B,C;UAAqC,aAAO,I;UAAP,e;SACr
B,6B;QAAhB,OAAgB,gBAAhB,C;UAAgB,2B;UgB1nD6B,2BhB0nDR,OgB1nDQ,Q;UAAA,W;YAAuB,oBAAR,
YAAQ,EhB0nD/B,ODh4CF,KiB1PiC,C;WhB0nD9C,IAAI,OAAJ,C;YAAyB,aAAO,K;YAAP,e;;QAC/C,aAAO,I;;;
MgB3nDH,iB;K;mCAGJ,Y;MAAkC,OAAA,IAAK,QAAQ,OAAb,KAAqB,C;K;;IA/CvD,sC;MAAA,oD;MACgC,
uBAAK,iBAAU,IAAV,CAAL,C;MADhC,Y;K;;;;oCAPJ,Y;MAAA,OAKqB,qDALrB,M;K;oCAAA,Y;MAAA,c;M
AKqB,wD;MALrB,a;K;kCAAA,iB;MAAA,2IAKqB,0CALrB,G;K;gFAyDA,yB;MAAA,yC;MAWsC,yC;QAAA,w
B;UAAW,OAAA,aAAK,KAAL,CjByOV,K;S;O;MiBpPvC,6B;QAWI,OAAO,oBAAW,kBAAU,IAAV,EAAgB,uB
AAhB,CAAX,C;O;KAXX,C;kFAcA,oB;MAGqE,e;K;I6LnE9C,2C;MAsBnB,kC;MAtByD,4BAAiB,KAAjB,EAA
wB,YAAxB,K;K;qFAC/B,Y;MAAQ,iB;K;4FACD,Y;MAAQ,gB;K;8CAEzC,iB;MAA+C,W9MgDoB,a8MhDpB,U
9MgDsC,KAAlB,E8MhDX,K9MgDyC,KAA9B,C8MhDpB,K;MAAA,S;QAAkB,O9MgDE,a8MhDF,K9MgDoB,K
AAlB,E8MhDO,S9MgDuB,KAA9B,C8MhDF,K;OAAlB,W;K;qCAE/C,Y;MAKkC,O9MyCiC,a8MzCjC,U9MyCm
D,KAAlB,E8MzCzB,S9MyCuD,KAA9B,C8MzCjC,I;K;oCAElC,iB;MAEY,UAAwB,M;MADhC,8CAAwB,kBAA
a,KAAM,UAAnB,KAChB,2CAAS,KAAM,MAAf,cAAwB,6CAAQ,KAAM,KAAd,QAAxB,CADgB,CAAxB,C;K;
sCAGJ,Y;MACI,OAAI,cAAJ,GAAe,EAAf,GAAwB,M9M0QK,CArCkB,U8MrOjB,U9MqO4B,KAAL,KAAoB,C
AVzB,U8M3NP,U9M2Na,yB8M3NH,E9M2NG,CAAN,CAUyB,MAApB,CAAN,CAqClB,MAAK,Q8M1QV,Q9
M0QK,CArCkB,U8MrOoB,S9MqOT,KAAL,KAAoB,CAVzB,U8M3N6B,S9M2NvB,yB8M3NgC,E9M2NhC,CA
AN,CAUyB,MAApB,CAAN,CAqClB,MAAK,Q8M1QV,I;K;sCAE5B,Y;MAAkC,OAAE,UAAF,qBAAU,S;K;IAE
5C,gC;MAAA,oC;MACI,aAC+B,iBAAW,6BAAM,UAAjB,EAA4B,6BAAM,UAAlC,C;K;;;IAFnC,4C;MAAA,2C;
QAAA,0B;OAAA,oC;K;;IAYJ,qD;MA4CI,wC;MAtCI,IAAI,gBAAJ,C;QAAwB,MAAa,gCAAyB,wBAAzB,C;MA
CrC,IAAI,sCAAJ,C;QAA4B,MAAa,gCAAyB,yEAAzB,C;MAG7C,aAG0B,K;MAE1B,YAGyB,4BAA0B,KAA1B,
EAAiC,YAAjC,EAA+C,IAA/C,C;MAEzB,YAGwB,I;K;0CAExB,Y;MAAiD,oCAAyB,UAAzB,EAAgC,SAAhC,E

AAsC,SAAtC,C;K;yCAEjD,Y;MAMqC,OAAI,uBAAO,CAAX,G9Mf8B,a8MehB,U9MfkC,KAAlB,E8MeR,S9Mfs
C,KAA9B,C8MehB,IAAd,G9Mf8B,a8MeE,U9MfgB,KAAlB,E8MeU,S9MfoB,KAA9B,C8MeE,I;K;wCAErE,iB;
MAEY,UAAwB,M;MADhC,kDAA8B,kBAAa,KAAM,UAAnB,KACtB,2CAAS,KAAM,MAAf,cAAwB,6CAAQ,
KAAM,KAAd,QAAxB,KAA8C,kBAAQ,KAAM,KAAd,CADxB,CAA9B,C;K;0CAGJ,Y;MACI,OAAI,cAAJ,GAA
e,EAAf,GAAwB,OAAM,M9MkND,CArCkB,U8M7KX,U9M6KsB,KAAL,KAAoB,CAVzB,U8MnKD,U9MmKO,
yB8MnKG,E9MmKH,CAAN,CAUyB,MAApB,CAAN,CAqClB,MAAK,Q8MlNJ,Q9MkND,CArCkB,U8M7K0B,
S9M6Kf,KAAL,KAAoB,CAVzB,U8MnKmC,S9MmK7B,yB8MnKsC,E9MmKtC,CAAN,CAUyB,MAApB,CAAN
,CAqClB,MAAK,Q8MlNJ,IAAN,SAAqF,cAAU,6BAAU,EAAV,CAAV,CAAyB,QAA9G,I;K;0CAE5B,Y;MAAk
C,OAAI,uBAAO,CAAX,GAAgB,UAAF,qBAAU,SAAV,cAAqB,SAArB,WAAd,GAAgD,UAAF,2BAAgB,SAAh
B,cAA6B,SAAD,aAA5B,W;K;IAEhF,sC;MAAA,0C;K;mEACI,sC;MAQ+F,4BAAiB,UAAjB,EAA6B,QAA7B,EA
AuC,IAAvC,C;K;;;IATnG,kD;MAAA,iD;QAAA,gC;OAAA,0C;K;;IAoBkC,qD;MAA0C,wB;MAC5E,sBAA2B,I;
MAC3B,iBAAmC,kBAAO,CAA1C,G9MhDmE,a8MgDtB,K9MhDwC,KAAlB,E8MgDb,I9MhD2C,KAA9B,C8M
gDtB,KAA7C,G9MhDmE,a8MgDH,K9MhDqB,KAAlB,E8MgDM,I9MhDwB,KAA9B,C8MgDH,K;MAChE,c9M
0SsC,U8M1SnB,I9M0SmB,C;M8MzStC,cAAuB,cAAJ,GAAa,KAAb,GAAwB,mB;K;iDAE3C,Y;MAAkC,qB;K;m
DAElC,Y;MACI,YAAY,W;MACZ,IAAI,6BAAS,mBAAT,QAAJ,C;QACI,IAAI,CAAC,cAAL,C;UAAc,MAAa,6B
;QAC3B,iBAAU,K;;QAEV,c9M/C+C,U8M+C/C,W9M/C0D,KAAK,K8M+CvD,W9M/CkE,KAAX,CAAhB,C;;M
8MiDnD,OAAO,K;K;;wEC7Hf,yB;MAAA,8C;MAAA,uB;QAOI,OAAO,MAAM,CAAN,EAAS,CAAT,C;O;KAP
X,C;wEAUA,yB;MAAA,8C;MAAA,uB;QAOI,OAAO,MAAM,CAAN,EAAS,CAAT,C;O;KAPX,C;wEAUA,yB;
MAAA,8C;MAAA,uB;QAOI,OAAO,MAAM,CAAN,EAAS,CAAT,C;O;KAPX,C;wEAUA,yB;MAAA,8C;MAAA
,uB;QAOI,OAAO,MAAM,CAAN,EAAS,CAAT,C;O;KAPX,C;oFC7BA,yB;MAAA,gD;MAAA,4B;QAM6C,OAA
Q,ahO+RhB,cgO/RgB,C;O;KANrD,C;oGAQA,yB;M/GwCA,iB;M+GxCA,4B;QAMqD,O/GwCM,MAAO,OjH+O
7B,ciH/O6B,C;O;K+G9ClE,C;sGAQA,yB;MAAA,kE;MAAA,4B;QAMsD,OAAQ,sBhO+QzB,cgO/QyB,C;O;KA
N9D,C;8FAQA,yB;MAAA,0D;MhOwWA,6B;MgOxWA,4B;QAOmD,OhO2WZ,cgO3WoB,kBhOsQtB,cgOtQsB,
ChO2WpB,C;O;KgOlXvC,C;4FASA,yB;MAAA,wD;MhO+VA,6B;MgO/VA,4B;QAOkD,OhOkWX,cgOlWmB,iB
hO6PrB,cgO7PqB,ChOkWnB,C;O;KgOzWvC,C;gFASA,yB;MAAA,4C;MhOsVA,6B;MgOtVA,sC;QAayD,OhOm
VlB,cgOnV0B,WhO8O5B,cgO9O4B,EAAW,QAAX,ChOmV1B,C;O;KgOhWvC,C;kFAgBA,yB;MAAA,8C;MhO
sUA,6B;MgOtUA,sC;QAa0D,OhOmUnB,cgOnU2B,YhO8N7B,cgO9N6B,EAAY,QAAZ,ChOmU3B,C;O;KgOhV
vC,C;oFAgBA,yB;MAAA,gD;MAAA,4B;QAM8C,OAAS,ahNgOhB,cgNhOgB,C;O;KANvD,C;oGAQA,yB;MAA
A,gE;MAAA,4B;QAMsD,OAAS,qBhNwNxB,cgNxNwB,C;O;KAN/D,C;sGAQA,yB;MAAA,kE;MAAA,4B;QAM
uD,OAAS,sBhNgNzB,cgNhNyB,C;O;KANhE,C;8FAQA,yB;MAAA,0D;MhN6SA,+B;MgN7SA,4B;QAOqD,OhN
gTX,egNhToB,kBhNuMvB,cgNvMuB,ChNgTpB,C;O;KgNvT1C,C;4FASA,yB;MAAA,wD;MhNoSA,+B;MgNpS
A,4B;QAOoD,OhNuSV,egNvSmB,iBhN8LtB,cgN9LsB,ChNuSnB,C;O;KgN9S1C,C;+EASA,yB;MAAA,4C;MhN
2RA,+B;MgN3RA,sC;QAa2D,OhNwRjB,egNxR0B,WhN+K7B,cgN/K6B,EAAW,QAAX,ChNwR1B,C;O;KgNrS1
C,C;iFAeA,yB;M/GgEA,4C;MjG4MA,+B;MgN5QA,sC;QAa4D,OhNyQlB,eiGzMuB,WjGgG1B,ciGhG0B,EAAW
,C+GhEK,Q/GgEL,IAAX,CjGyMvB,C;O;KgNtR1C,C;oFAeA,yB;MjOwJI,6B;MiO1SJ,gD;MAkJA,4B;QAM8C,O
AlJO,ahO+RhB,CDcE,cAAU,cAAL,GAAiB,GAAtB,CCdF,MgO/RgB,C;O;KA4IrD,C;oGAQA,yB;M/G1GA,iB;M
+G0GA,4B;QAMsD,O/G1GK,MAAO,OlHuM3B,c0N1Ge,GAAY,GxG7FA,CwG6Fb,GAA6C,EAA7C,I;O;KOOr
D,C;sGAQA,yB;MPbA,kE;MOaA,4B;QAMuD,OPbkB,sB1NkGlC,c0NlGgB,GAAW,GAAO,C;O;KOOzE,C;8FA
QA,yB;MAAA,0D;MjO+LA,0B;MAAA,+B;MiO/LA,4B;QAOqD,OjOmMZ,eAAW,OiOnMS,kBjOgGnB,cAAL,G
AAiB,GiOhGO,CjOmMT,CAAX,C;O;KiO1MzC,C;4FASA,yB;MAAA,wD;MjOsLA,0B;MAAA,+B;MiOtLA,4B;
QAOoD,OjO0LX,eAAW,OiO1LQ,iBjOuFlB,cAAL,GAAiB,GiOvFM,CjO0LR,CAAX,C;O;KiOjMzC,C;gFAUA,y
B;MAAA,4C;MjOqJA,+B;MiOrJA,sC;QAa2D,OjOkJjB,eiOlJ0B,WjOmD7B,ciOnD6B,EAAW,QAAX,CjOkJ1B,C
;O;KiO/J1C,C;kFAeA,yB;MAAA,8C;MjOsIA,+B;MiOtIA,sC;QAa4D,OjOmIlB,eiOnI2B,YjOoC9B,ciOpC8B,EAA
Y,QAAZ,CjOmI3B,C;O;KiOhJ1C,C;oFAeA,yB;M/NgFI,6B;M+N3SJ,gD;MA2NA,4B;QAM+C,OA3NM,ahO+Rh
B,CCeE,cAAU,cAAL,GAAiB,KAAtB,CDfF,MgO/RgB,C;O;KAqNrD,C;oGAQA,yB;M/GnLA,iB;M+GmLA,4B;Q
AMuD,O/GnLI,MAAO,OhHkNzB,cwN3CpC,GAAY,KxGvKiD,CwGuK9D,GAA+C,EAA/C,I;O;KOMJ,C;sGAQ
A,yB;MPZA,kE;MOYA,4B;QAMwD,OPZoB,sBxNmCnC,cwNnCe,GAAW,KAAS,C;O;KOM5E,C;8FAQA,yB;M
AAA,0D;M/NuHA,4B;MAAA,iC;M+NvHA,4B;QAOuD,O/N2HZ,gBAAY,Q+N3HQ,kB/NwBrB,cAAL,GAAiB,K

+NxBS,C/N2HR,CAAZ,C;O;K+NlI3C,C;4FASA,yB;MAAA,wD;M/N8GA,4B;MAAA,iC;M+N9GA,4B;QAOsD,
O/NkHX,gBAAY,Q+NlHO,iB/NepB,cAAL,GAAiB,K+NfQ,C/NkHP,CAAZ,C;O;K+NzH3C,C;gFAUA,yB;MAA
A,4C;M/NyFA,iC;M+NzFA,sC;QAa6D,O/NsFhB,gB+NtF0B,W/NX9B,c+NW8B,EAAW,QAAX,C/NsF1B,C;O;K
+NnG7C,C;kFAeA,yB;MAAA,8C;M/N0EA,iC;M+N1EA,sC;QAa8D,O/NuEjB,gB+NvE2B,Y/N1B/B,c+N0B+B,E
AAY,QAAZ,C/NuE3B,C;O;K+NpF7C,C;ICtRA,qC;MAEI,SjOuIoD,ciOvI3C,CjOuI2C,EiOvIvC,CjOuIuC,C;MiOt
IpD,SjOsIoD,ciOtI3C,CjOsI2C,EiOtIvC,CjOsIuC,C;MiOrIpD,OjOmDkE,YiOnDvD,EjOmDwE,KAAjB,EiOnDjD,
EjOmD8E,KAA7B,CiOnDvD,KAAX,GjOkFsD,SiOlFjC,EjOkF2C,KAAK,GiOlF3C,EjOkFuD,KAAZ,IAAf,CiOlFt
D,GjOqEqD,SAAU,CAaT,SiOlFpB,EjOkF8B,KAAK,GiOlF9B,EjOkF0C,KAAZ,IAAf,CAbS,MAAK,GiOrExB,Cj
OqEmC,KAAX,IAAf,C;K;IiOlEzD,qC;MACI,SjNwIsD,eiNxI7C,CjNwI6C,EiNxIzC,CjNwIyC,C;MiNvItD,SjNuIs
D,eiNvI7C,CjNuI6C,EiNvIzC,CjNuIyC,C;MiNtItD,OjNqDmE,aiNrDxD,EjNqD0E,KAAlB,EiNrDlD,EjNqDgF,KA
A9B,CiNrDxD,KAAX,GjN+EwD,UiN/EnC,EjN+E8C,KAAK,UiN/E9C,EjN+E0D,KAAZ,CAAhB,CiN/ExD,GjNk
EuD,UAAW,CAaV,UiN/EtB,EjN+EiC,KAAK,UiN/EjC,EjN+E6C,KAAZ,CAAhB,CAbU,MAAK,KiNlE3B,CjNkE
sC,KAAX,CAAhB,C;K;IiN/D3D,uD;MAmBI,WAAO,CAAP,C;QAD8E,OjOwBZ,YiOvBlD,KjOuBmE,KAAjB,Ei
OvBzC,GjOuBsE,KAA7B,CiOvBlD,KAD8D,GAChD,GADgD,GjOuDxB,SiOtDf,GjOsDyB,KAAK,GiOtDxB,mB
AAiB,GAAjB,EAAsB,KAAtB,EjO2WV,SiO3WuC,IjO2WvC,CiO3WU,CjOsDoC,KAAZ,IAAf,C;aiOrDtD,WAA
O,CAAP,C;QAF8E,OjOwBZ,YiOtBlD,KjOsBmE,KAAjB,EiOtBzC,GjOsBsE,KAA7B,CiOtBlD,KAF8D,GAEhD,
GAFgD,GjO0CzB,SiOxCd,GjOwCwB,KAAK,GiOxCvB,mBAAiB,KAAjB,EAAwB,GAAxB,EjO0WV,SiO1WwC,
CAAC,IAAD,IjO0WxC,CiO1WU,CjOwCkC,KAAX,IAAf,C;;QiOvC7C,MAAa,gCAAyB,eAAzB,C;K;IAGzB,uD;
MAmBI,sBAAO,CAAP,C;QADkF,OjNQf,aiNPnD,KjNOqE,KAAlB,EiNP1C,GjNOwE,KAA9B,CiNPnD,KADkE,
GACpD,GADoD,GjNkC1B,UiNjCjB,GjNiC4B,KAAK,UiNjC3B,mBAAiB,GAAjB,EAAsB,KAAtB,EjNkWP,UiNl
WoC,IjNkWpC,CiNlWO,CjNiCuC,KAAZ,CAAhB,C;aiNhCxD,sBAAO,CAAP,C;QAFkF,OjNQf,aiNNnD,KjNMq
E,KAAlB,EiNN1C,GjNMwE,KAA9B,CiNNnD,KAFkE,GAEpD,GAFoD,GjNqB3B,UiNnBhB,GjNmB2B,KAAK,
KiNnB1B,mBAAiB,KAAjB,EAAwB,GAAxB,EjNiWP,UiNjWsC,IAAD,ajNiWrC,CiNjWO,CjNmBqC,KAAX,CA
AhB,C;;QiNlB/C,MAAa,gCAAyB,eAAzB,C;K;IhOlDC,sB;MAEtB,8B;MAFyD,gB;K;IAEzD,4B;MAAA,gC;MAC
I,iBAGqC,WAAO,CAAP,C;MAErC,iBAGqC,WAAO,MAAP,C;MAErC,kBAGmC,C;MAEnC,iBAGkC,E;K;;;IAn
BtC,wC;MAAA,uC;QAAA,sB;OAAA,gC;K;wGAsBA,iB;MAM0D,OAAa,0BA6OjC,SAAL,GAAiB,KA7OqB,EA
AU,KF4O3C,KAAL,GAAiB,GE5OqB,C;K;oGAEvE,iB;MAOoE,OAAa,0BAoO3C,SAAL,GAAiB,KApO+B,EAA
U,KAoOrD,KAAL,GAAiB,KApO+B,C;K;wGAEjF,yB;MA2PA,6B;MD5PA,8C;MCCA,wB;QAMyD,ODAS,YAA
iB,CC8PhD,cAAU,SAAL,GAAiB,KAAtB,CD9PgD,MAAjB,ECAe,KDAc,KAA7B,C;O;KCNlE,C;wGAQA,yB;M
A6PA,aAS6D,0B;MAT7D,+B;Me9PA,gD;MfCA,wB;QAM0D,OeAS,aAAkB,CfgQhD,eAAW,oBAAL,SAAK,CA
AL,YAAN,CehQgD,MAAlB,EfAgB,KeAc,KAA9B,C;O;KfNnE,C;8FAQA,yB;MA2OA,6B;MA3OA,wB;QAEsD,
ODMD,cAAU,CC4O5B,cAAU,SAAL,GAAiB,KAAtB,CD5O4B,MAAK,GAAW,CD2O5C,cEjPsC,KFiP5B,KAA
L,GAAiB,GAAtB,CC3O4C,MAAX,IAAf,C;O;KCRrD,C;8FAGA,yB;MAwOA,6B;MAxOA,wB;QAEuD,ODGF,c
AAU,CC4O5B,cAAU,SAAL,GAAiB,KAAtB,CD5O4B,MAAK,GAAW,CC4O5C,cA/OuC,KA+O7B,KAAL,GAAi
B,KAAtB,CD5O4C,MAAX,IAAf,C;O;KCLrD,C;8FAGA,yB;MAqOA,6B;MArOA,wB;QAEqD,ODAA,cAAU,CC
4O5B,cAAU,SAAL,GAAiB,KAAtB,CD5O4B,MAAK,GCAI,KDAO,KAAX,IAAf,C;O;KCFrD,C;8FAGA,yB;MA
4OA,aAS6D,0B;MAT7D,+B;MA5OA,wB;QAEuD,OeAA,eAAW,CfmP7B,eAAW,oBAAL,SAAK,CAAL,YAAN,
CenP6B,MAAK,KfAI,KeAO,KAAX,CAAhB,C;O;KfFvD,C;gGAIA,yB;MA8NA,6B;MA9NA,wB;QAEuD,ODMD
,cAAU,CC+N7B,cAAU,SAAL,GAAiB,KAAtB,CD/N6B,MAAK,GAAY,CD8N9C,cEpOwC,KFoO9B,KAAL,GA
AiB,GAAtB,CC9N8C,MAAZ,IAAf,C;O;KCRtD,C;gGAGA,yB;MA2NA,6B;MA3NA,wB;QAEwD,ODGF,cAAU,
CC+N7B,cAAU,SAAL,GAAiB,KAAtB,CD/N6B,MAAK,GAAY,CC+N9C,cAlOyC,KAkO/B,KAAL,GAAiB,KAA
tB,CD/N8C,MAAZ,IAAf,C;O;KCLtD,C;gGAGA,yB;MAwNA,6B;MAxNA,wB;QAEsD,ODAA,cAAU,CC+N7B,c
AAU,SAAL,GAAiB,KAAtB,CD/N6B,MAAK,GCAK,KDAO,KAAZ,IAAf,C;O;KCFtD,C;gGAGA,yB;MA+NA,a
AS6D,0B;MAT7D,+B;MA/NA,wB;QAEwD,OeAA,eAAW,CfsO9B,eAAW,oBAAL,SAAK,CAAL,YAAN,CetO8B
,MAAK,UfAK,KeAO,KAAZ,CAAhB,C;O;KfFxD,C;gGAIA,yB;MAiNA,6B;MAjNA,wB;QAEuD,ODMD,cAAe,
YAAL,CCkN7B,cAAU,SAAL,GAAiB,KAAtB,CDlN6B,MAAK,EAAY,CDiN9C,cEvNwC,KFuN9B,KAAL,GAAi
B,GAAtB,CCjN8C,MAAZ,CAAf,C;O;KCRtD,C;gGAGA,yB;MA8MA,6B;MA9MA,wB;QAEwD,ODGF,cAAe,Y
AAL,CCkN7B,cAAU,SAAL,GAAiB,KAAtB,CDlN6B,MAAK,EAAY,CCkN9C,cArNyC,KAqN/B,KAAL,GAAiB,

KAAtB,CDlN8C,MAAZ,CAAf,C;O;KCLtD,C;gGAGA,yB;MA2MA,6B;MA3MA,wB;QAEsD,ODAA,cAAe,YAA
L,CCkN7B,cAAU,SAAL,GAAiB,KAAtB,CDlN6B,MAAK,ECAK,KDAO,KAAZ,CAAf,C;O;KCFtD,C;gGAGA,y
B;MAkNA,aAS6D,0B;MAT7D,+B;MAlNA,wB;QAEwD,OeAA,eAAW,CfyN9B,eAAW,oBAAL,SAAK,CAAL,Y
AAN,CezN8B,MAAK,UfAK,KeAO,KAAZ,CAAhB,C;O;KfFxD,C;4FAIA,yB;MAoMA,6B;MD9LA,4C;MCNA,w
B;QAEqD,ODMD,WCqMjB,cAAU,SAAL,GAAiB,KAAtB,CDrMiB,EDoMjB,cE1MoC,KF0M1B,KAAL,GAAiB,
GAAtB,CCpMiB,C;O;KCRpD,C;4FAGA,yB;MAiMA,6B;MD9LA,4C;MCHA,wB;QAEsD,ODGF,WCqMjB,cAA
U,SAAL,GAAiB,KAAtB,CDrMiB,ECqMjB,cAxMqC,KAwM3B,KAAL,GAAiB,KAAtB,CDrMiB,C;O;KCLpD,C;
4FAGA,yB;MA8LA,6B;MD9LA,4C;MCAA,wB;QAEoD,ODAA,WCqMjB,cAAU,SAAL,GAAiB,KAAtB,CDrMi
B,ECAkB,KDAlB,C;O;KCFpD,C;4FAGA,yB;MAqMA,aAS6D,0B;MAT7D,+B;MerMA,8C;MfAA,wB;QAEsD,O
eAA,Yf4MjB,eAAW,oBAAL,SAAK,CAAL,YAAN,Ce5MiB,EfAmB,KeAnB,C;O;KfFtD,C;4FAIA,yB;MAuLA,6
B;MDzKA,kD;MCdA,wB;QAMqD,ODcD,cC4KjB,cAAU,SAAL,GAAiB,KAAtB,CD5KiB,ED2KjB,cEzLoC,KFy
L1B,KAAL,GAAiB,GAAtB,CC3KiB,C;O;KCpBpD,C;4FAOA,yB;MAgLA,6B;MDzKA,kD;MCPA,wB;QAMsD,
ODOF,cC4KjB,cAAU,SAAL,GAAiB,KAAtB,CD5KiB,EC4KjB,cAnLqC,KAmL3B,KAAL,GAAiB,KAAtB,CD5K
iB,C;O;KCbpD,C;4FAOA,yB;MAyKA,6B;MDzKA,kD;MCAA,wB;QAMoD,ODAA,cC4KjB,cAAU,SAAL,GAAi
B,KAAtB,CD5KiB,ECAkB,KDAlB,C;O;KCNpD,C;4FAOA,yB;MA4KA,aAS6D,0B;MAT7D,+B;Me5KA,oD;Mf
AA,wB;QAMsD,OeAA,ef+KjB,eAAW,oBAAL,SAAK,CAAL,YAAN,Ce/KiB,EfAmB,KeAnB,C;O;KfNtD,C;sGA
QA,yB;MA0JA,6B;MD9LA,4C;MCoCA,wB;QAMiD,ODxCG,WCqMjB,cAAU,SAAL,GAAiB,KAAtB,CDrMiB,E
DoMjB,cE5JqC,KF4J3B,KAAL,GAAiB,GAAtB,CCpMiB,C;O;KCkCpD,C;sGAOA,yB;MAmJA,6B;MD9LA,4C;
MC2CA,wB;QAMkD,OD/CE,WCqMjB,cAAU,SAAL,GAAiB,KAAtB,CDrMiB,ECqMjB,cAtJsC,KAsJ5B,KAAL,
GAAiB,KAAtB,CDrMiB,C;O;KCyCpD,C;sGAOA,yB;MA4IA,6B;MD9LA,4C;MCkDA,wB;QAMgD,ODtDI,WCq
MjB,cAAU,SAAL,GAAiB,KAAtB,CDrMiB,ECsDmB,KDtDnB,C;O;KCgDpD,C;sGAOA,yB;MA+IA,aAS6D,0B;
MAT7D,+B;MerMA,8C;MfsDA,wB;QAMkD,Oe1DI,Yf4MjB,eAAW,oBAAL,SAAK,CAAL,YAAN,Ce5MiB,Ef0
DoB,Ke1DpB,C;O;KfoDtD,C;4FAQA,yB;MA6HA,6B;MDzKA,kD;MDuOJ,0B;MAAA,+B;ME3LI,wB;QAQ6C,O
F8LR,eAAW,OC5OI,cC4KjB,cAAU,SAAL,GAAiB,KAAtB,CD5KiB,ED2KjB,cE7H4B,KF6HlB,KAAL,GAAiB,
GAAtB,CC3KiB,CAkLf,KD0DW,CAAX,C;O;KEtMrC,C;4FASA,yB;MAoHA,6B;MDzKA,kD;MCwOJ,4B;MAA
A,iC;MAnLI,wB;QAQ+C,OAsLR,gBAAY,QD7OC,cC4KjB,cAAU,SAAL,GAAiB,KAAtB,CD5KiB,EC4KjB,cAr
H8B,KAqHpB,KAAL,GAAiB,KAAtB,CD5KiB,CA4Lb,KCiDY,CAAZ,C;O;KA9LvC,C;4FASA,yB;MA2GA,6B;
MDzKA,kD;MC8DA,wB;QAQ2C,ODhES,cC4KjB,cAAU,SAAL,GAAiB,KAAtB,CD5KiB,ECgES,KDhET,C;O;K
CwDpD,C;4FASA,yB;MA4GA,aAS6D,0B;MAT7D,+B;Me5KA,oD;MfgEA,wB;QAQ6C,OelES,ef+KjB,eAAW,o
BAAL,SAAK,CAAL,YAAN,Ce/KiB,EfkEU,KelEV,C;O;Kf0DtD,C;4EAUA,yB;MAAA,4B;MAAA,iC;MAAA,m
B;QAM2C,uBAAY,QAAL,SAAK,KAAZ,C;O;KAN3C,C;4EAQA,yB;MAAA,4B;MAAA,iC;MAAA,mB;QAM2C
,uBAAY,QAAL,SAAK,KAAZ,C;O;KAN3C,C;oGAQA,yB;MAAA,8C;MAwEA,6B;MAxEA,wB;QAE+D,0BA+E
5B,cAAU,SAAL,GAAiB,KAAtB,CA/E4B,EA+E5B,cA/EqD,KA+E3C,KAAL,GAAiB,KAAtB,CA/E4B,C;O;KAF/
D,C;4FAIA,yB;MAAA,iC;M0LnNJ,4B;M1LmNI,wB;QAEqD,uB0LlNiC,Q1LkN1B,IAAK,K0LlNX,G1LkNoB,K
AAM,K0LlNM,C1LkNjC,C;O;KAFrD,C;0FAGA,yB;MAAA,iC;M0LjNJ,4B;M1LiNI,wB;QAEoD,uB0LhNgC,Q1
LgNzB,IAAK,K0LhNX,G1LgNmB,KAAM,K0LhNM,C1LgNhC,C;O;KAFpD,C;4FAGA,yB;MAAA,iC;M0L/MJ,4
B;M1L+MI,wB;QAEqD,uB0L9MiC,Q1L8M1B,IAAK,K0L9MX,G1L8MoB,KAAM,K0L9MM,C1L8MjC,C;O;KA
FrD,C;4EAGA,yB;MAAA,iC;M0L7MJ,4B;M1L6MI,mB;QAEkC,uB0L5MsB,QAAP,C1L4MR,S0L5Me,C1L4Mt
B,C;O;KAFlC,C;kFAIA,yB;MAAA,0B;MAAA,mB;QAUmC,OAAK,OAAL,SAAK,C;O;KAVxC,C;oFAWA,Y;M
ASqC,gB;K;gFACrC,Y;MASiC,OAAK,SAAL,GAAiB,K;K;kFAClD,yB;MAAA,aASqD,0B;MATrD,mB;QASmC,
OAAK,oBAAL,SAAK,CAAL,Y;O;KATnC,C;oFAWA,yB;MF+DJ,0B;MAAA,+B;ME/DI,mB;QASqC,OFiEE,eA
AW,OEjEb,SFiEa,CAAX,C;O;KE1EvC,C;sFAUA,Y;MAEuC,W;K;kFACvC,yB;MAAA,6B;MAAA,mB;QASmC,
qBAAU,SAAL,GAAiB,KAAtB,C;O;KATnC,C;oFAUA,yB;MAAA,aAS6D,0B;MAT7D,+B;MAAA,mB;QASqC,s
BAAW,oBAAL,SAAK,CAAL,YAAN,C;O;KATrC,C;oFAWA,Y;MAMqC,OApDC,SAAL,GAAiB,K;K;sFAqDlD,
Y;MAMuC,OA3DD,SAAL,GAAiB,K;K;gCA6DlD,Y;MAAyC,OAAQ,CA7DX,SAAL,GAAiB,KA6DD,Y;K;;;;;gC
A3UrD,Y;MAAA,c;MAG6D,qD;MAH7D,a;K;8BAAA,iB;MAAA,2IAG6D,oCAH7D,G;K;0EA+UA,yB;MAAA,i
C;MAAA,4B;QAW4C,uBAAY,SAAZ,C;O;KAX5C,C;4EAYA,yB;MAAA,iC;MAAA,4B;QAU6C,uBAAO,SAAP,
C;O;KAV7C,C;4EAWA,yB;MAAA,4B;MAAA,iC;MAAA,4B;QAW2C,uBAAY,QAAL,SAAK,CAAZ,C;O;KAX3

C,C;4EAYA,yB;MAAA,4B;MAAA,iC;MAAA,4B;QAW4C,uBAAY,QAAL,SAAK,SAAZ,C;O;KAX5C,C;IiC/W
A,8B;MACqB,sB;K;wCAKjB,iB;MAM8C,OjCsVL,WiCtVK,aAAQ,KAAR,CjCsVL,C;K;wCiCpVzC,wB;MAOI,a
AAQ,KAAR,IAAiB,KjC4OgB,K;K;mFiCxOP,Y;MAAQ,OAAA,YAAQ,O;K;qCAE9C,Y;MAC+E,gCAAS,YAAT,
C;K;IAGzD,qC;MAAkC,yB;MAAjC,oB;MACnB,eAAoB,C;K;6CACpB,Y;MAAyB,sBAAQ,YAAM,O;K;gDACv
C,Y;MAA0D,Q;MAA9B,IAAI,eAAQ,YAAM,OAAlB,C;QAAA,OjCgUS,WiChUe,aAAM,mBAAN,EAAM,2BAA
N,OjCgUf,C;;QiChU8C,MAAM,2BAAuB,YAAM,WAA7B,C;K;;2CAG7F,mB;MAIS,Q;MAAL,IAAI,eAAC,0EA
AD,SAAJ,C;QAAkC,OAAO,K;MAEzC,OAAe,WAAR,YAAQ,EAAS,OjCsNS,KiCtNlB,C;K;gDAGnB,oB;MACY
,Q;MAA2B,gBAA3B,gE;MAA2B,c;;QjB0nDvB,U;QADhB,IAAI,wCAAsB,mBAA1B,C;UAAqC,aAAO,I;UAAP,e
;SACrB,6B;QAAhB,OAAgB,gBAAhB,C;UAAgB,2B;UiB1nD6B,2BjB0nDR,OiB1nDQ,S;UAAA,W;YAAwB,oB
AAR,YAAQ,EjB0nDhC,OhBx6CA,KiClNgC,C;WjB0nD/C,IAAI,OAAJ,C;YAAyB,aAAO,K;YAAP,e;;QAC/C,aA
AO,I;;;MiB3nDH,iB;K;oCAGJ,Y;MAAkC,OAAA,IAAK,QAAQ,OAAb,KAAqB,C;K;;IA/CvD,uC;MAAA,qD;MA
CgC,wBAAK,eAAW,IAAX,CAAL,C;MADhC,Y;K;;;;qCAPJ,Y;MAAA,OAKqB,sDALrB,M;K;qCAAA,Y;MAAA
,c;MAKqB,wD;MALrB,a;K;mCAAA,iB;MAAA,2IAKqB,0CALrB,G;K;kFAyDA,yB;MAAA,2C;MAWwC,0C;QA
AA,wB;UAAW,OAAA,aAAK,KAAL,CjCiMV,K;S;O;MiC5MzC,6B;QAWI,OAAO,qBAAY,gCAAW,IAAX,GAA
iB,wBAAjB,CAAZ,C;O;KAXX,C;oFAcA,oB;MAGwE,e;K;IgM5ExE,sC;MAQ2D,OAAa,WAAb,SnOwQjB,KAA
L,GAAiB,GmOxQkB,EAAS,KAAT,C;K;IAExE,sC;MAQ4D,OAAa,WAAb,SjO+PlB,KAAL,GAAiB,KiO/PmB,E
AAS,KAAT,C;K;IAGzE,sC;MAQ0D,OAAc,WlOiR5B,oBkOjRc,SlOiRnB,KAAK,CAAL,iBkOjRiC,EAAS,KAAT
,C;K;IAExE,sC;MAOgD,uBAAc,SlNyQvB,KkNzQS,EAA6B,WAAW,KAAX,CAA7B,C;K;IAGhD,8B;MAMqC,Q
;MAAA,0DAAmB,kBAAkB,SAAlB,C;K;IAExD,qC;MAO+C,Q;MAAA,0CAAc,KAAd,oBAAwB,kBAAkB,SAAl
B,C;K;IAGvE,+B;MAMuC,Q;MAAA,2DAAoB,kBAAkB,SAAlB,C;K;IAE3D,sC;MAOiD,Q;MAAA,2CAAe,KA
Af,oBAAyB,kBAAkB,SAAlB,C;K;IAE1E,6B;MAMmC,Q;MAAA,yDAAkB,kBAAkB,SAAlB,C;K;IAErD,oC;MA
O6C,Q;MAAA,yCAAa,KAAb,oBAAuB,kBAAkB,SAAlB,C;K;IAEpE,8B;MAMqC,Q;MAAA,0DAAmB,kBAAkB
,SAAlB,C;K;IAExD,qC;MAO+C,Q;MAAA,0CAAc,KAAd,oBAAwB,kBAAkB,SAAlB,C;K;IAMvE,kC;MAM4C,
kCAAsB,EAAtB,C;K;IAE5C,2C;MASmB,Q;MAAA,sBAAL,SAAK,EAAa,KAAb,C;MAAL,iB;QAA4B,OAAO,I;
OAA7C,UAAU,I;MACV,IlO/EkE,YkO+E9D,GlO/E+E,KAAjB,EAA6B,CD6P5D,SmO9KzB,6BAAM,UnO8K6B,
KAAL,GAAiB,GAAtB,CC7P4D,MAA7B,CkO+E9D,IAAJ,C;QAA2B,OAAO,I;MAClC,OnO8OqC,UAAW,OmO9
OzC,GlOoL8B,KD0DW,CAAX,C;K;ImO3OzC,mC;MAM8C,mCAAuB,EAAvB,C;K;IAE9C,4C;MASmB,Q;MAA
A,sBAAL,SAAK,EAAa,KAAb,C;MAAL,iB;QAA4B,OAAO,I;OAA7C,UAAU,I;MACV,IlOrGkE,YkOqG9D,GlOr
G+E,KAAjB,EAA6B,CC8P5D,SiOzJzB,8BAAO,UjOyJ4B,KAAL,GAAiB,KAAtB,CD9P4D,MAA7B,CkOqG9D,I
AAJ,C;QAA4B,OAAO,I;MACnC,OjOyNuC,WAAY,QiOzN5C,GlOwKgC,KCiDY,CAAZ,C;K;IiOtN3C,iC;MAM
0C,iCAAqB,EAArB,C;K;IAE1C,0C;MASI,WAAW,KAAX,C;MAEA,aAAa,SAAK,O;MAClB,IAAI,WAAU,CAA
d,C;QAAiB,OAAO,I;MAExB,YAAkB,4BAAK,U;MACvB,S;MAEA,gBAAgB,qBAAK,CAAL,C;MAChB,IAAI,Y
AAY,EAAhB,C;QACI,IAAI,WAAU,CAAV,IAAe,cAAa,EAAhC,C;UAAqC,OAAO,I;QAC5C,QAAQ,C;;QAER,Q
AAQ,C;;MAGZ,uBAAuB,mB;MAEvB,qBAAqB,gB;MACrB,alOuMmC,SkOvMtB,KlOuMsB,C;MkOtMnC,aAAa,
W;MACb,aAAU,KAAV,MAAsB,MAAtB,M;QACI,YAAY,QAAQ,qBAAK,CAAL,CAAR,EAAiB,KAAjB,C;QAE
Z,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,IlOnJ8D,YkOmJ1D,MlOnJ2E,KAAjB,EkOmJjD,clOnJ8E,KAA7
B,CkOmJ1D,IAAJ,C;UACI,IAAI,+CAAkB,gBAAlB,QAAJ,C;YACI,iBlO5FwC,WkO4FvB,KlO5FuB,EkO4Ff,Ml
O5Fe,C;YkO8FxC,IlOvJsD,YkOuJlD,MlOvJmE,KAAjB,EkOuJzC,clOvJsE,KAA7B,CkOuJlD,IAAJ,C;cACI,OAA
O,I;;YAGX,OAAO,I;;SAIf,SlOnHkD,SAAe,YkOmHjE,MlOnH4D,KAAK,EkOmHvD,MlOnHmE,KAAZ,CAAf,C;
QkOqHlD,mBAAmB,M;QACnB,SlOhJiD,SkOgJjD,MlOhJ2D,KAAK,GAAW,CAkU5C,SkOlLrB,KlOkLqB,CAlU
4C,MAAX,IAAf,C;QkOiJjD,IlOnK8D,YkOmK1D,MlOnK2E,KAAjB,EkOmKjD,YlOnK8E,KAA7B,CkOmK1D,I
AAJ,C;UAA2B,OAAO,I;;MAGtC,OAAO,M;K;IAGX,kC;MAM4C,kCAAsB,EAAtB,C;K;IAE5C,2C;MASI,WAA
W,KAAX,C;MAEA,aAAa,SAAK,O;MAClB,IAAI,WAAU,CAAd,C;QAAiB,OAAO,I;MAExB,YAAmB,6BAAM,
U;MACzB,S;MAEA,gBAAgB,qBAAK,CAAL,C;MAChB,IAAI,YAAY,EAAhB,C;QACI,IAAI,WAAU,CAAV,IA
Ae,cAAa,EAAhC,C;UAAqC,OAAO,I;QAC5C,QAAQ,C;;QAER,QAAQ,C;;MAIZ,uBAAuB,gD;MAEvB,qBAAqB
,gB;MACrB,alN0IqC,UAAW,oBkN1InC,KlN0ImC,CAAX,C;MkNzIrC,aAAa,2B;MACb,aAAU,KAAV,MAAsB,
MAAtB,M;QACI,YAAY,QAAQ,qBAAK,CAAL,CAAR,EAAiB,KAAjB,C;QAEZ,IAAI,QAAQ,CAAZ,C;UAAe,O
AAO,I;QACtB,IlN5M+D,akN4M3D,MlN5M6E,KAAlB,EkN4MlD,clN5MgF,KAA9B,CkN4M3D,IAAJ,C;UACI,I

AAI,+CAAkB,gBAAlB,QAAJ,C;YACI,iBlN1J0C,YkN0JzB,KlN1JyB,EkN0JjB,MlN1JiB,C;YkN4J1C,IlNhNuD,a
kNgNnD,MlNhNqE,KAAlB,EkNgN1C,clNhNwE,KAA9B,CkNgNnD,IAAJ,C;cACI,OAAO,I;;YAGX,OAAO,I;;S
AIf,SlNjLoD,UkNiLpD,MlNjL+D,KAAK,UkNiL1D,MlNjLsE,KAAZ,CAAhB,C;QkNmLpD,mBAAmB,M;QACn
B,SlN9MmD,UkN8MnD,MlN9M8D,KAAK,KAAW,ChBsQ7C,UAAW,oBAAL,CAyDR,SkOjHrB,KlOiHqB,CAz
DQ,MAAK,CAAL,iBAAN,CgBtQ6C,MAAX,CAAhB,C;QkN+MnD,IlN5N+D,akN4N3D,MlN5N6E,KAAlB,EkN
4NlD,YlN5NgF,KAA9B,CkN4N3D,IAAJ,C;UAA2B,OAAO,I;;MAGtC,OAAO,M;K;I1N9RX,6B;MACkD,OAAu
B,0BAAtB,KAAO,WAAe,EAAU,KAAO,WAAjB,C;K;IACzE,8B;MACqD,OAAC,gCAAuB,iBAAU,gCAAV,C;K
;IAE7E,4B;MACoD,ORiZZ,SAvGI,oBQ1SS,ER0Sd,KAAK,CAAL,iBQ1Sc,KR0ST,oBQ1SuB,ER0S5B,KAAK,C
AAL,iBQ1Sc,CRiZH,QAAV,C;K;IQhZxC,+B;MACuD,OR+Yf,SAvGI,oBQxSY,ERwSjB,KAAK,CAAL,iBQxSiB
,QRwSZ,oBQxS0B,ERwS/B,KAAK,CAAL,iBQxSiB,CR+YN,QAAV,C;K;IQ1YxC,6B;MAEI,eAAe,EQkSoB,K;
MRjSnC,cAAc,EQiSqB,K;MRhSnC,IAAI,qBAAU,CAAd,C;QACI,OQ6C+D,aR7CpD,EQ6CsE,KAAlB,ER7C/C,E
Q6C6E,KAA9B,CR7CpD,IAAJ,GAAa,aAAb,GAA2B,a;OAItC,IAAI,uBAAY,CAAhB,C;QACI,OAAO,UAAM,aA
AW,OAAX,CAAN,C;OAIX,eAAiB,4BAAc,CAAd,CAAD,KAAoB,OAApB,CAAD,WAAkC,CAAlC,C;MACf,UA
AU,kBAAW,kBAAW,OAAX,CAAX,C;MACV,OAAO,UAAM,iCQkCsD,aAAkB,CRlCzD,UAAM,GAAN,CQkC
yD,MAAlB,EAA8B,CRlCvD,UAAM,OAAN,CQkCuD,MAA9B,CRlCvC,KAAJ,GAAkC,CAAlC,GAAyC,CAApD
,EAAN,C;K;IAIX,gC;MAKe,Q;MAHX,eAAe,EQ8QoB,K;MR7QnC,cAAc,EQ6QqB,K;MR5QnC,IAAI,qBAAU,C
AAd,C;QACW,IQyBwD,aRzBpD,EQyBsE,KAAlB,ERzB/C,EQyB6E,KAA9B,CRzBpD,IAAJ,C;UACH,S;;UAEA,
OQgDgD,URhDhD,EQgD2D,KAAK,URhD3D,EQgDuE,KAAZ,CAAhB,C;;QRnDpD,W;OAQJ,IAAI,uBAAY,CA
AhB,C;QACI,OAAO,UAAM,gBAAW,OAAX,CAAN,C;OAIX,eAAiB,4BAAc,CAAd,CAAD,KAAoB,OAApB,C
AAD,WAAkC,CAAlC,C;MACf,UAAU,kBAAW,kBAAW,OAAX,CAAX,C;MACV,OAAO,UAAM,aQUsD,aAAk
B,CRV9D,UAAM,GAAN,CQU8D,MAAlB,EAA8B,CRV5D,UAAM,OAAN,CQU4D,MAA9B,CRV5C,KAAJ,GA
AkC,OAAlC,KAAN,CAAN,C;K;IAGX,yB;MAEI,IAAE,QAAF,CAAE,CAAF,C;QADyC,OAC5B,W;;QACb,SRw
SuC,aQxSlC,4BAAK,URwS0C,KAAb,CQxSvC,C;UAFyC,OAEP,4BAAK,U;;UACvC,SRuSuC,aQvSlC,4BAAK,
URuS0C,KAAb,CQvSvC,C;YAHyC,OAGP,4BAAK,U;eACvC,SAAK,UAAL,C;YAJyC,ORkVN,SQ9UX,YAAF,
CAAE,CR8UW,C;;YQlVM,ORgBY,SAAU,CAkU5B,SQ7UP,YAAnB,IAAI,UAAe,CR6UO,CAlU4B,MAAK,GA
AW,CAkU5C,SQ7UY,UR6UZ,CAlU4C,MAAX,IAAf,C;;;;K;IQRzD,0B;MAEI,IAAE,QAAF,CAAE,CAAF,C;QA
D2C,OAC9B,2B;;QACb,SQkSuC,cRlSlC,6BAAM,UQkS0C,KAAd,CRlSvC,C;UAF2C,OAER,6BAAM,U;;UACz
C,SQiSuC,cRjSlC,6BAAM,UQiS0C,KAAd,CRjSvC,C;YAH2C,OAGR,6BAAM,U;eACzC,4C;YAJ2C,OQwVL,U
RpVd,uBAAF,CAAE,CQoVc,C;;YRxVK,OQUY,UAAW,CA8U5B,URjVF,uBAA3B,IAAI,oBAAuB,CQiVE,CA9
U4B,MAAK,KAAW,CRHzB,gCQGyB,MAAX,CAAhB,C;;;;K;IRC3D,yB;MAC4C,QAAC,CAAqB,GAAf,UAAP,
IAAmC,CAAC,MAAO,EAAW,IAAJ,EAAf,IAAgC,C;K;IAE/G,0B;MAC8C,OAAC,qBAAO,EAAP,CAAW,WAA
Z,GAAyB,IAAzB,GAAiC,YAAjC,W;K;IAG9C,0B;MAA8C,uBAAc,CAAd,EAAiB,EAAjB,C;K;IAE9C,kC;MACI
,IAAI,gBAAK,CAAT,C;QAAY,OAAS,WAAF,CAAE,EAAS,IAAT,C;MAErB,eAAiB,qBAAO,CAAP,CAAD,yB
AAa,IAAb,EAAD,WAAwB,CAAxB,C;MACf,UAAU,WAAI,sCAAW,IAAX,EAAJ,C;MACV,IAAI,kBAAO,IAA
X,C;QACI,uCAAO,IAAP,E;QACA,4CAAY,CAAZ,E;OAEJ,OAAgB,WAAT,QAAS,EAAS,IAAT,CAAT,GAA8B,
WAAJ,GAAI,EAAS,IAAT,C;K;I2N1FzC,qC;K;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;

;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;YnIsEA,iB;;K;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;So
IjE8B,iB;QAGD,iB;gC/ImBqB,I;IW8C9C,aAAJ,OAAO,OAAQ,KAAI,WAAY,IAAG,OAAO,SAAf,IAA4B,CAAC
,CAAC,OAAO,SAAS,K;aAChE,MAAJ,GAAY,iBAAhB,OAA6B,OAAb,CAAZ,GAAoD,gC;uDG1EJ,mC,EAAuB,
wB;ea0YrB,MAAW,KGzYlC,GHyYkC,EGzY1B,GHyY0B,C;eAAX,MAAW,KGxYlC,GHwYkC,EGxY1B,GHwY
0B,C;sBWpUnC,gBAA8B,CAA9B,O;oCnGkOc,eAAmB,oCAAnB,C;yB8GnKL,C;gCAKY,eAAiB,OAAL,GAAK,
CAAjB,EAAgC,OAAL,GAAK,CAAhC,EAA+C,OAAL,GAAK,CAA/C,E;uBAwDd,K;qB4CnGK,C;yBACI,C;sBA
CH,C;kBACJ,C;iBACD,C;mBACE,C;sB3KuyCH,O;;;;uBkD3zCzB,W0JoCkC,yB1JpClC,C;;;;CzEjFX,E;"}

Found
 in path(s):
* /opt/cola/permits/1574755637_1677240922.1275218/0/kotlin-1-6-0-1-tgz/package/kotlin.js.map

# 1.38 apr 1.7.2

## 1.38.1 Available under license :

This package was debianized by Thom May <thom@debian.org> on
Wed, 17 Nov 2004 11:27:14 -0800

It was downloaded from https://httpd.apache.org/download.cgi

Upstream Authors: The Apache Software Foundation - https://apr.apache.org/

Copyright:

Licensed to the Apache Software Foundation (ASF) under one or more contributor
license agreements. The ASF licenses this work to You under the Apache License,
Version 2.0 (the "License"); you may not use this work except in compliance
with the License.  You may obtain a copy of the License at

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

On a Debian system, the license can be found at
/usr/share/common-licenses/Apache-2.0 .

APACHE PORTABLE RUNTIME SUBCOMPONENTS:

The Apache Portable Runtime includes a number of subcomponents with
separate copyright notices and license terms. Your use of the source

code for the these subcomponents is subject to the terms and
conditions of the following licenses.

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

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

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

/* Copyright
(c) 1996 by Internet Software Consortium.
*
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.

*
* THE SOFTWARE IS PROVIDED "AS IS" AND INTERNET SOFTWARE CONSORTIUM DISCLAIMS
* ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL INTERNET SOFTWARE
* CONSORTIUM BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL
* DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR
* PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS
* ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
* SOFTWARE.

From dso/aix/dso.c:

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

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

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

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

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

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

From test/CuTest.c, test/CuTest.h:

* Copyright (c) 2002-2006 Asim Jalis
*
* This library is released under the zlib/libpng license as described at
*
* https://www.opensource.org/licenses/zlib-license.html
*
* Here is the statement of the license:
*
* This software is provided 'as-is', without any express or implied warranty.
* In no event will the authors be held liable for any damages arising from
* the use of this software.
*
* Permission is granted to anyone to use this software for any purpose,
* including commercial applications, and to alter it and redistribute it
* freely, subject to the following restrictions:
*
* 1. The origin
 of this software must not be misrepresented; you must not
* claim that you wrote the original software. If you use this software in a
* product, an acknowledgment in the product documentation would be
* appreciated but is not required.
*
* 2. Altered source versions must be plainly marked as such, and must not be
* misrepresented as being the original software.
*
* 3. This notice may not be removed or altered from any source distribution.

# 1.39 error_prone_annotations 2.18.0

## 1.39.1 Available under license :

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

<!--
 Copyright 2015 The Error Prone Authors.

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

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

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

Found in path(s):
* /opt/cola/permits/1606613656_1679417956.422988/0/error-prone-annotations-2-18-0-1-jar/META-INF/maven/com.google.errorprone/error_prone_annotations/pom.xml

# 1.40 opentelemetry-proto 0.11.0

## 1.40.1 Available under license :

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

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

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

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

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

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

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

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

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

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

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

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

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

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

or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

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

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

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

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

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

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

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

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

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

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

END OF TERMS AND CONDITIONS

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

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

Copyright [yyyy] [name of copyright owner]

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

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

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

# 1.41 xml-apis 1.4.01

## 1.41.1 Available under license :

```
 =========================================================================
==  NOTICE file corresponding to section 4(d) of the Apache License,   ==
==  Version 2.0, in this case for the Apache xml-commons xml-apis      ==
==  distribution.                                                      ==
=========================================================================
```

Apache XML Commons XML APIs
Copyright 1999-2009 The Apache Software Foundation.

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Portions of this software were originally based on the following:
- software copyright (c) 1999, IBM Corporation., http://www.ibm.com.
- software copyright (c) 1999, Sun Microsystems., http://www.sun.com.
- software copyright (c) 2000 World Wide Web Consortium, http://www.w3.org

xml-commons/java/external/LICENSE.sax.txt $Id: LICENSE.sax.txt 225954 2002-01-31 23:26:48Z curcuru $

This license came from: http://www.megginson.com/SAX/copying.html
However please note future versions of SAX may be covered
under http://saxproject.org/?selected=pd

This page is now out of date -- see the new SAX site at
http://www.saxproject.org/ for more up-to-date
releases and other information. Please change your bookmarks.

SAX2 is Free!

I hereby abandon any property rights to SAX 2.0 (the Simple API for
XML), and release all of the SAX 2.0 source code, compiled code, and
documentation contained in this distribution into the Public Domain.
SAX comes with NO WARRANTY or guarantee of fitness for any
purpose.

David Megginson, david@megginson.com
2000-05-05
xml-commons/java/external/LICENSE.dom-software.txt $Id: LICENSE.dom-software.txt 734314 2009-01-14 03:33:27Z mrglavas $

This license came from: http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/java-binding.zip (COPYRIGHT.html)

W3C SOFTWARE NOTICE AND LICENSE
Copyright  2004 World Wide Web Consortium, (Massachusetts Institute of Technology,
European Research Consortium for Informatics and Mathematics, Keio University).
All Rights Reserved.

The DOM bindings are published under the W3C Software Copyright Notice and
License. The software license requires "Notice of any changes or modifications
to the W3C files, including the date changes were made." Consequently, modified
versions of the DOM bindings must document that they do not conform to the W3C
standard; in the case of the IDL definitions, the pragma prefix can no longer
be 'w3c.org'; in the case of the Java language binding, the package names can no
longer be in the 'org.w3c' package.

Note: The original version of the
W3C Software Copyright Notice and License could
be found at http://www.w3.org/Consortium/Legal/2002/copyright-software-20021231

This work (and included software, documentation such as READMEs, or other
related items) is being provided by the copyright holders under the following

license. By obtaining, using and/or copying this work, you (the licensee) agree that you have read, understood, and will comply with the following terms and conditions.

Permission to copy, modify, and distribute this software and its documentation, with or without modification, for any purpose and without fee or royalty is hereby granted, provided that you include the following on ALL copies of the software and documentation or portions thereof, including modifications:

1. The full text of this NOTICE in a location viewable to users of the redistributed or derivative work.
2. Any pre-existing intellectual property disclaimers, notices, or terms and conditions. If none exist, the W3C Software Short Notice should be included (hypertext is preferred, text is permitted) within the body of any redistributed or derivative code.
3. Notice of any changes or modifications to the files, including the date changes were made. (We recommend you provide URIs to the location from which the code is derived.)

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE OR DOCUMENTATION WILL NOT INFRINGE ANY THIRD PARTY PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE SOFTWARE OR DOCUMENTATION.

The name and trademarks of copyright holders may NOT be used in advertising or publicity pertaining to the software without specific, written prior permission. Title to copyright in this software and any associated documentation will at all times remain with copyright holders.

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

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

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

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

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

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

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

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

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

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

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

designated in writing by the copyright owner as "Not a Contribution."

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

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

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

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

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

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

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions

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

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

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

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

risks associated with Your exercise of permissions under this License.

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

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

END OF TERMS AND CONDITIONS

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

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

Copyright [yyyy] [name of copyright owner]

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

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

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
xml-commons/java/external/LICENSE.dom-documentation.txt $Id: LICENSE.dom-documentation.txt 226215 2005-06-03 22:49:13Z mrglavas $

This license came from: http://www.w3.org/Consortium/Legal/copyright-documents-20021231

W3C DOCUMENT LICENSE
http://www.w3.org/Consortium/Legal/2002/copyright-documents-20021231

Public documents on the W3C site are provided by the copyright holders under the following license. By using and/or copying this document, or the W3C document from which this statement is linked, you (the licensee) agree that you have read, understood, and will comply with the following terms and conditions:

Permission to copy, and distribute the contents of this document, or the W3C document from which this statement is linked, in any medium for any purpose and without fee or royalty is hereby granted, provided that you include the following on ALL copies of the document, or portions thereof, that you use:

1. A link or URL to the original W3C document.
2. The pre-existing
copyright notice of the original author, or if it
doesn't exist, a notice (hypertext is preferred, but a textual
representation is permitted) of the form: "Copyright [$date-of-document]
World Wide Web Consortium, (Massachusetts Institute of Technology,
European Research Consortium for Informatics and Mathematics, Keio
University). All Rights Reserved.
http://www.w3.org/Consortium/Legal/2002/copyright-documents-20021231"
3. If it exists, the STATUS of the W3C document.

When space permits, inclusion of the full text of this NOTICE should be provided. We request that authorship attribution be provided in any software, documents, or other items or products that you create pursuant to the implementation of the contents of this document, or any portion thereof.

No right to create modifications or derivatives of W3C documents is granted pursuant to this license. However, if additional requirements (documented in the Copyright FAQ) are satisfied, the right
to create modifications or
derivatives is sometimes granted by the W3C to individuals complying with those requirements.

THIS DOCUMENT IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NON-INFRINGEMENT, OR TITLE; THAT THE CONTENTS OF THE DOCUMENT ARE SUITABLE FOR ANY PURPOSE; NOR THAT THE IMPLEMENTATION OF SUCH CONTENTS WILL NOT INFRINGE ANY THIRD PARTY PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE DOCUMENT OR THE PERFORMANCE OR IMPLEMENTATION OF THE CONTENTS THEREOF.

The name and trademarks of copyright holders may NOT be used in advertising or publicity pertaining to this document or its contents without specific, written prior permission. Title to copyright in this document will at all times remain with copyright
holders.

---

This formulation of W3C's notice and license became active on December 31 2002. This version removes the copyright ownership notice such that this license can be used with materials other than those owned by the W3C, moves information on style sheets, DTDs, and schemas to the Copyright FAQ, reflects that ERCIM is now a host of the W3C, includes references to this specific dated version of the license, and removes the ambiguous grant of "use". See the older formulation for the policy prior to this date. Please see our Copyright FAQ for common questions about using materials from our site, such as the translating or annotating specifications. Other questions about this notice can be directed to site-policy@w3.org.

Joseph Reagle <site-policy@w3.org>

Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $

# 1.42 okhttp 4.11.0

## 1.42.1 Available under license :

Note that publicsuffixes.gz is compiled from The Public Suffix List:
https://publicsuffix.org/list/public_suffix_list.dat

It is subject to the terms of the Mozilla Public License, v. 2.0:
https://mozilla.org/MPL/2.0/

# 1.43 protobuf 22.2

## 1.43.1 Available under license :

MIT License

Copyright (c) 2019 Yibo Cai
Copyright 2022 Google LLC

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

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

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT
OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright 2008 Google Inc.  All rights reserved.

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

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

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR

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

Code generated by the Protocol Buffer compiler is owned by the owner
of the input file used when generating it.  This code is not
standalone and requires a support library to be linked with it.  This
support library is itself covered by the above license.
This file contains a list of people who have made large contributions
to the public version of Protocol Buffers.

Original Protocol Buffers design and implementation:
 Sanjay Ghemawat <sanjay@google.com>
 Jeff Dean <jeff@google.com>
 Daniel Dulitz <daniel@google.com>
 Craig Silverstein
 Paul Haahr <haahr@google.com>
 Corey Anderson <corin@google.com>
 (and many others)

Proto2 C++ and Java primary author:
 Kenton Varda <kenton@google.com>

Proto2 Python primary authors:
 Will Robinson <robinson@google.com>
 Petar Petrov <petar@google.com>

Java Nano primary authors:
 Brian Duff <bduff@google.com>
 Tom Chao <chaot@google.com>
 Max Cai <maxtroy@google.com>
 Ulas Kirazci <ulas@google.com>

Large code contributions:
 Jason Hsueh <jasonh@google.com>
 Joseph Schorr <jschorr@google.com>
 Wenbo Zhu <wenboz@google.com>

Large quantity of code reviews:
 Scott Bruce <sbruce@google.com>
 Frank Yellin
 Neal Norwitz <nnorwitz@google.com>
 Jeffrey Yasskin <jyasskin@google.com>
 Ambrose

Feinstein <ambrose@google.com>

Documentation:
Lisa Carey <lcarey@google.com>

Maven packaging:
Gregory Kick <gak@google.com>

Patch contributors:
Kevin Ko <kevin.s.ko@gmail.com>
  * Small patch to handle trailing slashes in --proto_path flag.
Johan Euphrosine <proppy@aminche.com>
  * Small patch to fix Python CallMethod().
Ulrich Kunitz <kune@deine-taler.de>
  * Small optimizations to Python serialization.
Leandro Lucarella <llucax@gmail.com>
  * VI syntax highlighting tweaks.
  * Fix compiler to not make output executable.
Dilip Joseph <dilip.antony.joseph@gmail.com>
  * Heuristic detection of sub-messages when printing unknown fields in
    text format.
Brian Atkinson <nairb774@gmail.com>
  * Added @Override annotation to generated Java code where appropriate.
Vincent Choinire <Choiniere.Vincent@hydro.qc.ca>
  * Tru64 support.
Monty Taylor <monty.taylor@gmail.com>
  * Solaris 10 + Sun Studio fixes.
Alek Storm <alek.storm@gmail.com>

  * Slicing support for repeated scalar fields for the Python API.
Oleg Smolsky <oleg.smolsky@gmail.com>
  * MS Visual Studio error format option.
  * Detect unordered_map in stl_hash.m4.
Brian Olson <brianolson@google.com>
  * gzip/zlib I/O support.
Michael Poole <mdpoole@troilus.org>
  * Fixed warnings about generated constructors not explicitly initializing
    all fields (only present with certain compiler settings).
  * Added generation of field number constants.
Wink Saville <wink@google.com>
  * Fixed initialization ordering problem in logging code.
Will Pierce <willp@nuclei.com>
  * Small patch improving performance of in Python serialization.
Alexandre Vassalotti <alexandre@peadrop.com>
  * Emacs mode for Protocol Buffers (editors/protobuf-mode.el).
Scott Stafford <scott.stafford@gmail.com>
  * Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.
Alexander Melnikov <alm@sibmail.ru>

* HPUX support.
Oliver Jowett <oliver.jowett@gmail.com>
* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.
Evan Jones <evanj@mit.edu>
* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only
once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.
Michael Kucharski <m.kucharski@gmail.com>
* Added CodedInputStream.getTotalBytesRead().
Kacper Kowalik <xarthisius.kk@gmail.com>
* Fixed m4/acx_pthread.m4 problem for some Linux distributions.
William Orr <will@worrbase.com>
* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris
Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xlC compiler build issues
* Added atomicops for AIX (POWER)
Nipunn Koorapati <nipunn1313@gmail.com>
* Provide a type alias field ValueType
on EnumTypeWrapper
* Match service argument names to abstract interface

# 1.44 animal-sniffer-annotation 1.23

## 1.44.1 Available under license :

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

<!--
The MIT License

Copyright (c) 2009 codehaus.org.

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

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

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

FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
-->

Found in path(s):
* /opt/cola/permits/1699778818_1685371632.5170038/0/animal-sniffer-annotations-1-23-jar/META-INF/maven/org.codehaus.mojo/animal-sniffer-annotations/pom.xml

# 1.45 j2objc-annotations 2.8

## 1.45.1 Available under license :

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

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

Found in path(s):
* /opt/cola/permits/1704412778_1685746927.655543/0/j2objc-annotations-2-8-sources-jar/com/google/j2objc/annotations/OnDealloc.java
* /opt/cola/permits/1704412778_1685746927.655543/0/j2objc-annotations-2-8-sources-jar/com/google/j2objc/annotations/J2ObjCIncompatible.java
* /opt/cola/permits/1704412778_1685746927.655543/0/j2objc-annotations-2-8-sources-jar/com/google/j2objc/annotations/LoopTranslation.java
*
/opt/cola/permits/1704412778_1685746927.655543/0/j2objc-annotations-2-8-sources-jar/com/google/j2objc/annotations/RetainedLocalRef.java
* /opt/cola/permits/1704412778_1685746927.655543/0/j2objc-annotations-2-8-sources-jar/com/google/j2objc/annotations/ReflectionSupport.java
* /opt/cola/permits/1704412778_1685746927.655543/0/j2objc-annotations-2-8-sources-jar/com/google/j2objc/annotations/Property.java
* /opt/cola/permits/1704412778_1685746927.655543/0/j2objc-annotations-2-8-sources-jar/com/google/j2objc/annotations/WeakOuter.java

* /opt/cola/permits/1704412778_1685746927.655543/0/j2objc-annotations-2-8-sources-jar/com/google/j2objc/annotations/RetainedWith.java
* /opt/cola/permits/1704412778_1685746927.655543/0/j2objc-annotations-2-8-sources-jar/com/google/j2objc/annotations/ObjectiveCName.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2012 Google Inc. All Rights Reserved.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1704412778_1685746927.655543/0/j2objc-annotations-2-8-sources-jar/com/google/j2objc/annotations/Weak.java
* /opt/cola/permits/1704412778_1685746927.655543/0/j2objc-annotations-2-8-sources-jar/com/google/j2objc/annotations/AutoreleasePool.java

# 1.46 guava 32.0.1-jre

## 1.46.1 Available under license :

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

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

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

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

"Legal Entity" shall mean the union of the acting entity and all

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

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

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

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

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

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

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

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

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

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

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

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must

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

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

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

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

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

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

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

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

END OF TERMS AND CONDITIONS

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

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

Copyright [yyyy] [name of copyright owner]

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

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

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

See the License for the specific language governing permissions and
limitations under the License.

# 1.47 log4cxx 1.1.0

## 1.47.1 Available under license :

Apache log4cxx
Copyright 2004-2007 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).
<!--
Licensed to the Apache Software Foundation (ASF) under one or more
contributor license agreements.  See the NOTICE file distributed with
this work for additional information regarding copyright ownership.
The ASF licenses this file to You under the Apache License, Version 2.0
(the "License"); you may not use this file except in compliance with
the License.  You may obtain a copy of the License at

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

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

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

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

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

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

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

"control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

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

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

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

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

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

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

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and

subsequently incorporated within the Work.

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

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

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

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding

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

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

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

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

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

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

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,

unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

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

END OF TERMS AND CONDITIONS

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

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

Copyright [yyyy] [name of copyright owner]

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

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

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

# 1.48 opentelemetry-sdk-extension-autoconfigure-spi 1.29.0

## 1.48.1 Available under license :

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

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

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

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

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

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

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

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

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

"Derivative Works" shall mean any work, whether in Source or Object

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

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

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

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

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

as of the date such litigation is filed.

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

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

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

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

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work

by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

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

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

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

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

END OF TERMS AND CONDITIONS

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

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

Copyright [yyyy] [name of copyright owner]

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

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

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

# 1.49 guava 32.0.1-android

## 1.49.1 Available under license :

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

/*
* Copyright (C) 2014 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-

jar/com/google/common/base/MoreObjects.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/eventbus/SubscriberRegistry.java
*
/opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/eventbus/Dispatcher.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/math/Quantiles.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/ListenerCallQueue.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011 The Guava Authors.
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/hash/package-info.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2016 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under

* the License.
*/
/**
* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
* version.
*/

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/ExtraObjectsMethodsForWeb.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/net/InetAddresses.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/primitives/Ints.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/io/MultiReader.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/primitives/Longs.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/io/FileBackedOutputStream.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/ListenableFutureTask.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/primitives/Booleans.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/primitives/Floats.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/thirdparty/publicsuffix/TrieParser.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-

jar/com/google/common/base/Stopwatch.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/primitives/Bytes.java
*
/opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/primitives/Chars.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/FluentIterable.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/Converter.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/Joiner.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/escape/Escaper.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/primitives/Doubles.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/net/PercentEscaper.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/internal/Finalizer.java
*
/opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/primitives/Shorts.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/CharMatcher.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/SequentialExecutor.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/escape/UnicodeEscaper.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ImmutableCollection.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ImmutableSortedSet.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/RegularImmutableBiMap.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/PeekingIterator.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/Range.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ImmutableMultimap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/RegularImmutableMap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ImmutableMultiset.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/TreeBasedTable.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/UnmodifiableIterator.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/StandardTable.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ImmutableEntry.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/StandardRowSortedTable.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/HashBasedTable.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/Platform.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/EmptyImmutableListMultimap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ImmutableMapValues.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ImmutableBiMap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/Tables.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ImmutableMap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ImmutableMapEntrySet.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-

jar/com/google/common/collect/Serialization.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ImmutableListMultimap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/Table.java
*
/opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ImmutableMapKeySet.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/Collections2.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/CollectPreconditions.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2020 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/ServiceManagerBridge.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2007 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and

* limitations under the License.
*/
/**
  * Returns an array containing all of the elements in the specified collection. This method
  * returns the elements in the order they are returned by the collection's iterator. The returned
  * array is "safe" in that no references to it are maintained by the collection. The caller is
  * thus free to modify the returned
 array.
  *
  * <p>This method assumes that the collection size doesn't change while the method is running.
  *
  * <p>TODO(kevinb): support concurrently modified collections?
  *
  * @param c the collection for which to return an array of elements
  */

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ObjectArrays.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2017 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/hash/AbstractHashFunction.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/ForwardingCondition.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/primitives/ImmutableLongArray.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/primitives/ImmutableIntArray.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/ForwardingLock.java

* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/primitives/ImmutableDoubleArray.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2016 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/CommonMatcher.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/JdkPattern.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/PatternCompiler.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/CommonPattern.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2012 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/CompactLinkedHashSet.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ForwardingDeque.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/AbstractNavigableMap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/AllEqualOrdering.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/FilteredKeySetMultimap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/TransformedIterator.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/DescendingImmutableSortedSet.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/RegularImmutableAsList.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/FilteredMultimap.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/FilteredKeyListMultimap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/FilteredSetMultimap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ForwardingNavigableMap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/TransformedListIterator.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ForwardingImmutableMap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/FilteredEntryMultimap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/CompactHashMap.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/AbstractMultimap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ImmutableEnumMap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ForwardingImmutableSet.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/TreeRangeMap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ForwardingImmutableList.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-

jar/com/google/common/collect/ForwardingNavigableSet.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/TreeTraverser.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/UnmodifiableSortedMultiset.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/DescendingMultiset.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/CompactHashSet.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/FilteredEntrySetMultimap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/SortedMultisetBridge.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/EvictingQueue.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/RangeMap.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ForwardingBlockingDeque.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/CompactLinkedHashMap.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2016 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/EdgesConnecting.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java

* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/GraphConstants.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/StandardMutableNetwork.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/EndpointPair.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/ValueGraph.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/MapRetrievalCache.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/ForwardingGraph.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/ValueGraphBuilder.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/NetworkBuilder.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/UndirectedMultiNetworkConnections.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/Comparators.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/LinkedHashMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/AbstractValueGraph.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/GraphBuilder.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/MultiEdgesConnecting.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/EndpointPairIterator.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/ForwardingNetwork.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/AbstractGraph.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/ImmutableValueGraph.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/DirectedGraphConnections.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/StandardMutableValueGraph.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-

jar/com/google/common/graph/GraphConnections.java
*
/opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/ElementOrder.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/AbstractGraphBuilder.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/MutableValueGraph.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/DirectedNetworkConnections.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/StandardMutableGraph.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/UndirectedGraphConnections.java
*
/opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/RangeGwtSerializationDependencies.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/AbstractNetwork.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/NetworkConnections.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/ForwardingValueGraph.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/MapIteratorCache.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/DirectedMultiNetworkConnections.java
*
/opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/StandardNetwork.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/UndirectedNetworkConnections.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/StandardValueGraph.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0

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

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/SortedMapDifference.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/MinMaxPriorityQueue.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ForwardingSetMultimap.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ForwardingListMultimap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/UnmodifiableListIterator.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/AbstractSequentialIterator.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ForwardingImmutableCollection.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/RowSortedTable.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2015 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/InterruptibleTask.java

* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/io/ReaderInputStream.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/AggregateFutureState.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/hash/LittleEndianByteArray.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ConsumingQueueIterator.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/CombinedFuture.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/Platform.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/hash/FarmHashFingerprint64.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/AsyncCallable.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/hash/MacHashFunction.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2018 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/BaseImmutableMultimap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/IndexedImmutableSet.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2020 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except

* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/Java8Compatibility.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/math/ToDoubleRounder.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/math/BigDecimalMath.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/OverflowAvoidingLockSupport.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/io/Java8Compatibility.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/hash/Java8Compatibility.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2021 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/NullnessCasts.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/NullnessCasts.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-

jar/com/google/common/collect/NullnessCasts.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2019 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/CompactHashing.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/IncidentEdgeSet.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2011 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/GwtTransient.java
No license file was found, but licenses were detected in source scan.

```
/*
```

* Copyright (C) 2010 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/Monitor.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/Strings.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/Equivalence.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/SortedLists.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/Atomics.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/Ascii.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/net/package-info.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/primitives/package-info.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/ListeningExecutorService.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/annotations/package-info.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/UncaughtExceptionHandlers.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/annotations/Beta.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ContiguousSet.java

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

/*
* Copyright (C) 2007 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/eventbus/package-info.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/io/Flushables.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/io/package-info.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/io/LittleEndianDataOutputStream.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/HashBiMap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/FinalizablePhantomReference.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/eventbus/AllowConcurrentEvents.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/io/Files.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/io/MultiInputStream.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/Function.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/ListenableFuture.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/FinalizableWeakReference.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/io/LineBuffer.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/io/LineReader.java

* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/Throwables.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/eventbus/AsyncEventBus.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/Predicates.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/FinalizableReference.java
*
/opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/io/Resources.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/eventbus/EventBus.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/Predicate.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/EnumMultiset.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/io/LittleEndianDataInputStream.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/package-info.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/io/ByteStreams.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/io/CountingOutputStream.java
*
/opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/FinalizableSoftReference.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/primitives/Primitives.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/Defaults.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/ExecutionList.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/io/CountingInputStream.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/io/CharStreams.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/Supplier.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/AbstractIterator.java
*
/opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/Functions.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/eventbus/DeadEvent.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-

jar/com/google/common/io/TempFileCreator.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/io/Closeables.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/DirectExecutor.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/Interners.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/Charsets.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/Objects.java
*
/opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/AbstractFuture.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/Suppliers.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/FinalizableReferenceQueue.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/Preconditions.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/eventbus/Subscribe.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/package-info.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2007 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/
/*
 * This following method is a modified version of one found in
 * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30
 * which contained the following notice:
 *
 * Written by Doug Lea with assistance from members of JCP JSR-166 Expert Group and released to
 *

the public domain, as explained at http://creativecommons.org/publicdomain/zero/1.0/
 *
 * Other contributors include Andrew Wright, Jeffrey Hayes, Pat Fisher, Mike Judd.
 */

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/MoreExecutors.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not
* use this file except in compliance with the License. You may obtain a copy of
* the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/SortedMultiset.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/SortedMultisets.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/reflect/TypeToken.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/io/PatternFilenameFilter.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/ImmediateFuture.java
*
/opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/Futures.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/annotations/VisibleForTesting.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/escape/CharEscaper.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/escape/CharEscaperBuilder.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/io/AppendableWriter.java
*
/opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/CollectionFuture.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/FuturesGetChecked.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/AggregateFuture.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
*
/opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/FluentFuture.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/CaseFormat.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/AbstractTransformFuture.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/TimeoutFuture.java

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

/*
* Copyright (C) 2009 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/Splitter.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/io/ByteProcessor.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/escape/ArrayBasedEscaperMap.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/AbstractIdleService.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/primitives/SignedBytes.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/ForwardingFuture.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/ForwardingListenableFuture.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/escape/ArrayBasedCharEscaper.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/SparseImmutableTable.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/AbstractService.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/ForwardingFluentFuture.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/Cut.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/annotations/J2ktIncompatible.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/DenseImmutableTable.java

* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/escape/Escapers.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/io/LineProcessor.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/annotations/GwtIncompatible.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/cache/LocalCache.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/MapMakerInternalMap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/io/ByteArrayDataOutput.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/xml/XmlEscapers.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/cache/ReferenceEntry.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/cache/CacheBuilder.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/Service.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/net/HostSpecifier.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/primitives/UnsignedBytes.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/RegularImmutableTable.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/io/ByteArrayDataInput.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/html/HtmlEscapers.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/Platform.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/annotations/GwtCompatible.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/reflect/TypeResolver.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/Callables.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/MapMaker.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-

jar/com/google/common/net/UrlEscapers.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/net/InternetDomainName.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/JdkFutureAdapters.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/SettableFuture.java
*
/opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/escape/Platform.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2018 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/hash/ImmutableSupplier.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/ExecutionSequencer.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2015 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.

*/

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/package-info.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/*
  * This method was rewritten in Java from an intermediate step of the Murmur hash function in
  * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
  * following header:
  *
  * MurmurHash3 was written by Austin Appleby, and is placed in the public domain. The author
  * hereby
 disclaims copyright to this source code.
  */

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/Hashing.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2012 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express

* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/reflect/TypeCapture.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/hash/LongAddable.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/io/BaseEncoding.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/reflect/MutableTypeToInstanceMap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/math/PairedStats.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/reflect/ClassPath.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ImmutableRangeMap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/hash/ChecksumHashFunction.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/hash/LongAddables.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/math/PairedStatsAccumulator.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/io/ByteSource.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/reflect/Invokable.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/io/FileWriteMode.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/hash/AbstractByteHasher.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/html/package-info.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/ServiceManager.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/io/CharSink.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/math/StatsAccumulator.java

* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/escape/package-info.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/io/CharSource.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/reflect/AbstractInvocationHandler.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/math/LinearTransformation.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/cache/LongAddable.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/cache/LongAddables.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/ListenableScheduledFuture.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/CartesianList.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/hash/SipHashFunction.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/FilteredKeyMultimap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/io/ByteSink.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/io/Closer.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/reflect/package-info.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/math/Stats.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/StandardSystemProperty.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/SmoothRateLimiter.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/xml/package-info.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ImmutableRangeSet.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/reflect/Parameter.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/RateLimiter.java
No license file was found, but licenses were detected in source scan.

/*
* Written by Doug Lea with assistance from members of JCP JSR-166
* Expert Group and released to the public domain, as explained at
* http://creativecommons.org/publicdomain/zero/1.0/

*/

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/hash/Striped64.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/cache/Striped64.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/AtomicDoubleArray.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/hash/LongAdder.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/cache/CacheBuilderSpec.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/hash/BloomFilter.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/cache/package-info.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/Enums.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/AbstractSortedMultiset.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/hash/Crc32cHashFunction.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/math/MathPreconditions.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/RegularImmutableMultiset.java

* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/hash/Hashing.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/reflect/Types.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/hash/AbstractCompositeHashFunction.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/Present.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/FunctionalEquivalence.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/primitives/ParseRequest.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/net/HttpHeaders.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/math/LongMath.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/Optional.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/Absent.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/TreeRangeSet.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/hash/HashingOutputStream.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/cache/RemovalListeners.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/cache/ForwardingCache.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/net/MediaType.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/cache/RemovalListener.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/ExecutionError.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/primitives/UnsignedLong.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/hash/Murmur3_32HashFunction.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/UncheckedExecutionException.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-

jar/com/google/common/hash/HashCode.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/math/DoubleUtils.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/math/DoubleMath.java
*
/opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/primitives/UnsignedInts.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/cache/Weigher.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/BoundType.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/Uninterruptibles.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/cache/LoadingCache.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/primitives/UnsignedLongs.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/cache/RemovalCause.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/reflect/TypeParameter.java
*
/opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/hash/Funnel.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/hash/AbstractHasher.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/math/package-info.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/Queues.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/hash/PrimitiveSink.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/cache/AbstractCache.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/cache/RemovalNotification.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/primitives/UnsignedInteger.java
*
/opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/cache/ForwardingLoadingCache.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/cache/CacheStats.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/PairwiseEquivalence.java

* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/FutureCallback.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/hash/HashFunction.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/hash/Murmur3_128HashFunction.java
*
/opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/math/IntMath.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/Ticker.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/AtomicLongMap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/DescendingImmutableSortedMultiset.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/hash/Hasher.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/cache/Cache.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/RegularContiguousSet.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/cache/AbstractLoadingCache.java
*
/opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/ForwardingExecutorService.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/hash/Funnels.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/hash/AbstractStreamingHasher.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/math/BigIntegerMath.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/cache/CacheLoader.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/hash/MessageDigestHashFunction.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/WrappingExecutorService.java
*
/opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/hash/BloomFilterStrategies.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/AbstractScheduledService.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/AsyncFunction.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-

jar/com/google/common/net/HostAndPort.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/hash/AbstractNonStreamingHashFunction.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/EmptyContiguousSet.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2019 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/reflect/IgnoreJRERequirement.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/io/IgnoreJRERequirement.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2019 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/primitives/Platform.java

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

/*
* Copyright (C) 2017 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/Traverser.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ObjectCountLinkedHashMap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/ClosingFuture.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ObjectCountHashMap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/AbstractBaseGraph.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/BaseGraph.java
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/Runnables.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/VerifyException.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
*
/opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/Utf8.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/reflect/TypeVisitor.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/io/CharSequenceReader.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/FilteredMultimapValues.java
*
/opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/Verify.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/AbstractTable.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2005 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):

* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/reflect/Reflection.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2009 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/**
  * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}
  * key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
  * version.
  *
  * @throws UnsupportedOperationException always
  * @deprecated <b>Pass a key of type {@code Comparable}
 to use {@link
  *     ImmutableSortedMap#of(Comparable, Object)}.</b>
  */
```

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2020 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
```

*/
/**
* Holder for web specializations of methods of {@code Doubles}. Intended to be empty for regular
* version.
*/

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/primitives/DoublesMethodsForWeb.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2007 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/Maps.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/SetMultimap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/LinkedListMultimap.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ForwardingIterator.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/Multimap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/RegularImmutableSet.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/Multiset.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/NullsFirstOrdering.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ForwardingMapEntry.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-

jar/com/google/common/collect/Iterators.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/LinkedHashMultiset.java
*
/opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/AbstractIterator.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ByFunctionOrdering.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/HashMultimap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ForwardingSortedMap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ImmutableList.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/package-info.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/HashMultiset.java
*
/opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/LexicographicalOrdering.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ForwardingObject.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ReverseNaturalOrdering.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/CompoundOrdering.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/UsingToStringOrdering.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ForwardingMap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/NullsLastOrdering.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/Multisets.java
*
/opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/MapDifference.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ListMultimap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/TreeMultimap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ForwardingSortedSet.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ExplicitOrdering.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/TreeMultiset.java

* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/Interner.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ReverseOrdering.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/Lists.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ArrayListMultimap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/AbstractSetMultimap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ComparatorOrdering.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ImmutableSet.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/AbstractMultiset.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ConcurrentHashMultiset.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/Sets.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ForwardingQueue.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ForwardingListIterator.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/AbstractListMultimap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/AbstractMapBasedMultimap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/AbstractMapBasedMultiset.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ForwardingCollection.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/Multimaps.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/NaturalOrdering.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/AbstractMapEntry.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/EnumBiMap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ForwardingMultiset.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/BiMap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-

jar/com/google/common/collect/LinkedHashMultimap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/SortedSetMultimap.java
*
/opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/Synchronized.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ForwardingConcurrentMap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ForwardingMultimap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ClassToInstanceMap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ForwardingSet.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/AbstractSortedSetMultimap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/Ordering.java
*
/opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/AbstractBiMap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ForwardingList.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/SingletonImmutableSet.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/Iterables.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/EnumHashBiMap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/MutableClassToInstanceMap.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2014 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/MutableGraph.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/MutableNetwork.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/TopKSelector.java
*
/opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/Graph.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/Network.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/SuccessorsFunction.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/Graphs.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/PredecessorsFunction.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/ImmutableGraph.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/ImmutableNetwork.java
No license file was found, but licenses were detected in source scan.

// Copyright 2011 Google Inc. All Rights Reserved.

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/hash/Fingerprint2011.java
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/MultimapBuilder.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2020 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/
/**
* Holder for web specializations of methods of {@code Shorts}. Intended to be empty for regular
* version.
*/
```

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/primitives/ShortsMethodsForWeb.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2020 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/
/**
* Holder for web specializations of methods of {@code Floats}. Intended to be empty for regular
* version.
*/
```

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/primitives/FloatsMethodsForWeb.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the
* License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
* express or implied. See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/SortedIterables.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/SortedIterable.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/AbstractRangeSet.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ForwardingSortedMultiset.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/RangeSet.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/GeneralRange.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ImmutableSortedMultiset.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/Count.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except

* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/
/*
  * This method was written by Doug Lea with assistance from members of JCP JSR-166 Expert Group
  * and released to the public domain, as explained at
  * http://creativecommons.org/licenses/publicdomain
  *
  * As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
  * java.util.HashMap
 class.
  */

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-
jar/com/google/common/util/concurrent/Striped.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2020 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/
/**
* Holder for web specializations of methods of {@code Ints}. Intended to be empty for regular
* version.
*/

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-
jar/com/google/common/primitives/IntsMethodsForWeb.java

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

```
/*
* Copyright (C) 2012 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/
/*
  * This method was rewritten in Java from an intermediate step of the Murmur hash function in
  * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
  * following header:
  *
  * MurmurHash3 was written by Austin Appleby, and is placed in the public domain. The author
  * hereby disclaims
 copyright to this source code.
  */
```

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/SmallCharMatcher.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2021 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):

* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/primitives/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/ElementTypesAreNonnullByDefault.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/net/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/math/ParametricNullness.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/eventbus/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/primitives/ParametricNullness.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ParametricNullness.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/xml/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/net/ParametricNullness.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/math/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/cache/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/html/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/html/ParametricNullness.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/graph/ParametricNullness.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/ParametricNullness.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/hash/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/eventbus/ParametricNullness.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/reflect/ParametricNullness.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/io/ParametricNullness.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/escape/ParametricNullness.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-

jar/com/google/common/xml/ParametricNullness.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/hash/ParametricNullness.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/base/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/escape/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/ParametricNullness.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/cache/ParametricNullness.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/io/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/reflect/ElementTypesAreNonnullByDefault.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2009 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/EmptyImmutableSetMultimap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ImmutableSortedMap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ImmutableTable.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ImmutableClassToInstanceMap.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ImmutableSetMultimap.java

* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ImmutableEnumSet.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ForwardingTable.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/RegularImmutableSortedSet.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ArrayTable.java
*
 /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/SingletonImmutableTable.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ImmutableAsList.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/AbstractIndexedListIterator.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/RegularImmutableList.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ComparisonChain.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/DiscreteDomain.java
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/collect/ComputationException.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2009 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/
/**
* Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain
* {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available
* under GWT but with a slightly different signature.
*
* <p>We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler wouldn't recognize
* it as a {@code GwtIncompatible} annotation. And for {@code Futures.catching}, we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT

* version.
*/

Found in path(s):
* /opt/cola/permits/1779683696_1693137085.7490354/0/guava-32-0-1-android-sources-jar/com/google/common/util/concurrent/Partially.java

# 1.50 opentelemetry-semconv 1.29.0-alpha

## 1.50.1 Available under license :

Apache-2.0

# 1.51 libpng 1.6.39

## 1.51.1 Available under license :

---

Copyright (c) 1998-2008 Greg Roelofs.  All rights reserved.

This software is provided "as is," without warranty of any kind,
express or implied.  In no event shall the author or contributors
be held liable for any damages arising in any way from the use of
this software.

The contents of this file are DUAL-LICENSED.  You may modify and/or
redistribute this software according to the terms of one of the
following two licenses (at your option):

LICENSE 1 ("BSD-like with advertising clause"):

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

1. Redistributions of source code must retain the above copyright
   notice, disclaimer, and this list of conditions.
2. Redistributions in binary
form must reproduce the above copyright
   notice, disclaimer, and this list of conditions in the documenta-
   tion and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this
   software must display the following acknowledgment:

      This product includes software developed by Greg Roelofs
      and contributors for the book, "PNG: The Definitive Guide,"

published by O'Reilly and Associates.

LICENSE 2 (GNU GPL v2 or later):

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

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

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software Foundation,
Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

---

pnm2png / png2pnm --- conversion from PBM/PGM/PPM-file to PNG-file

copyright (C) 1999-2019 by Willem van Schaik <willem at schaik dot com>

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

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

The software is provided "as is", without warranty of any kind, express or
implied, including but not limited to the warranties of merchantability,
fitness for a particular purpose and noninfringement. In no event shall the
authors or copyright holders be liable for any claim, damages or other
liability,
whether in an action of contract, tort or otherwise, arising from,
out of or in connection with the software or the use or other dealings in the
software.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.

59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

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

When we speak of free software, we are referring to freedom, not
price.
Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

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

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

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

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

Finally, any free program is threatened constantly by software

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

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

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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

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

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

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

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

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

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

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

These requirements apply to the modified work as a whole. If
identifiable sections of that work
are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

a) Accompany it with the complete corresponding machine-readable
source code, which must be distributed under the terms of Sections
1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your

cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution
and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

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

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

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

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

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

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

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

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

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

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

the limitation as if written in the body of this License.

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

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

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

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

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

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

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

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

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

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

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

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

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

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

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

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

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

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

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

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

PNG Reference Library License version 2
---------------------------------------

* Copyright (c) 1995-2022 The PNG Reference Library Authors.
* Copyright (c) 2018-2022 Cosmin Truta.
* Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson.
* Copyright (c) 1996-1997 Andreas Dilger.
* Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

The software is supplied "as is", without warranty of any kind,
express or implied, including, without limitation, the warranties
of merchantability, fitness for a particular purpose, title, and
non-infringement.  In no event shall the Copyright owners, or
anyone distributing the software, be liable for any damages or
other liability, whether in contract, tort or otherwise, arising
from, out of, or in connection with the software, or the use or
other dealings in the software, even if advised of the possibility
of such damage.

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

1. The origin of this software must not be misrepresented; you
   must not claim that you wrote the original software.  If you
   use this software in a product, an acknowledgment in the product
   documentation would be appreciated, but is not required.

2. Altered source versions must be plainly marked as such, and must
   not be misrepresented as being the original software.

3. This Copyright notice may not be removed or altered from any
   source or altered source distribution.

PNG Reference Library License version 1 (for libpng 0.5 through 1.6.35)
---

libpng versions 1.0.7, July 1, 2000, through 1.6.35, July 15, 2018 are
Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson, are
derived from libpng-1.0.6, and are distributed according to the same
disclaimer
 and license as libpng-1.0.6 with the following individuals
added to the list of Contributing Authors:

   Simon-Pierre Cadieux
   Eric S. Raymond
   Mans Rullgard
   Cosmin Truta
   Gilles Vollant
   James Yu
   Mandar Sahastrabuddhe
   Google Inc.
   Vadim Barkov

and with the following additions to the disclaimer:

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

Some files in the "contrib" directory and some configure-generated
files that are distributed with libpng have other copyright owners, and
are released under other open source licenses.

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

   Tom Lane

Glenn Randers-Pehrson
Willem van Schaik

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

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

Some files in the "scripts" directory have other copyright owners,
but are released under this license.

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

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

Andreas Dilger
Dave Martindale
Guy Eric Schalnat
Paul Schmidt
Tim Wegner

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

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

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

2. Altered versions must be plainly marked as such and must not
be misrepresented as being the original source.

3. This Copyright notice may not be removed or altered from
 any
  source or altered source distribution.

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

# 1.52 okio 3.6.0

## 1.52.1 Available under license :

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

/*
* Copyright (C) 2018 Square, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/commonMain/okio/PeekSource.kt
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2019 Square, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/commonMain/okio/internal/RealBufferedSource.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/commonMain/okio/internal/SegmentedByteString.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/commonMain/okio/internal/RealBufferedSink.kt
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2015 Square, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/appleMain/okio/SegmentedByteString.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/nonAppleMain/okio/SegmentedByteString.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/commonMain/okio/SegmentedByteString.kt
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2020 Square, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*

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

Found in path(s):
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/hashFunctions/okio/internal/Sha512.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/hashFunctions/okio/internal/Md5.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/hashFunctions/okio/internal/Sha1.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/hashFunctions/okio/internal/Sha256.kt
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2020 Square, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/nativeMain/okio/Cinterop.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/unixMain/okio/UnixPosixVariant.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/commonMain/okio/internal/Path.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/linuxMain/okio/LinuxPosixVariant.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/nativeMain/okio/PosixFileSystem.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/hashFunctions/okio/internal/Hmac.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/nativeMain/okio/PosixVariant.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-

jar/commonMain/okio/HashingSource.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/nativeMain/okio/FileSource.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/appleMain/okio/ApplePosixVariant.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/nativeMain/okio/FileSink.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/commonMain/okio/FileSystem.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/commonMain/okio/HashingSink.kt
*
/opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/commonMain/okio/FileMetadata.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/nonJvmMain/okio/Path.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/nonJvmMain/okio/HashingSink.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/commonMain/okio/ForwardingFileSystem.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/commonMain/okio/ExperimentalFileSystem.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/nonJvmMain/okio/HashingSource.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/commonMain/okio/Path.kt
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2018 Square, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/commonMain/okio/internal/-Utf8.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/nonAppleMain/okio/ByteString.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/commonMain/okio/Util.kt
*
/opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/commonMain/okio/CommonPlatform.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/commonMain/okio/internal/ByteString.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/nonJvmMain/okio/NonJvmPlatform.kt

* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/commonMain/okio/ByteString.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/appleMain/okio/ByteString.kt
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2020 Square, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/nativeMain/okio/SizetVariant.kt
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2021 Square, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/commonMain/okio/internal/FileSystem.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/commonMain/okio/FileHandle.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/unixMain/okio/UnixFileHandle.kt
*
 /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/nativeMain/okio/FileSystem.kt

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

```
/*
*  Licensed to the Apache Software Foundation (ASF) under one or more
*  contributor license agreements.  See the NOTICE file distributed with
*  this work for additional information regarding copyright ownership.
*  The ASF licenses this file to You under the Apache License, Version 2.0
*  (the "License"); you may not use this file except in compliance with
*  the License.  You may obtain a copy of the License at
*
*     http://www.apache.org/licenses/LICENSE-2.0
*
*  Unless required by applicable law or agreed to in writing, software
*  distributed under the License is distributed on an "AS IS" BASIS,
*  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
*  See the License for the specific language governing permissions and
*  limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/commonMain/okio/Base64.kt
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2019 Square, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/commonMain/okio/Okio.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/commonMain/okio/Timeout.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/nonJvmMain/okio/RealBufferedSink.kt
*
 /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/nonJvmMain/okio/Buffer.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/commonMain/okio/BufferedSink.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/nonJvmMain/okio/Timeout.kt

* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/commonMain/okio/Buffer.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/nonJvmMain/okio/BufferedSink.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/nonJvmMain/okio/Sink.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/nonJvmMain/okio/BufferedSource.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/commonMain/okio/internal/Buffer.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/commonMain/okio/RealBufferedSource.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/commonMain/okio/Sink.kt
*
 /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/commonMain/okio/Source.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/commonMain/okio/BufferedSource.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/commonMain/okio/RealBufferedSink.kt
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2014 Square, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/nonJvmMain/okio/RealBufferedSource.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/commonMain/okio/Segment.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/commonMain/okio/SegmentPool.kt
*
 /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/commonMain/okio/ForwardingSource.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/nonJvmMain/okio/SegmentPool.kt
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/nonJvmMain/okio/ForwardingSource.kt
No license file was found, but licenses were detected in source scan.

/*

```
* Copyright (C) 2017 Square, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/commonMain/okio/Utf8.kt
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2020 Square, Inc. and others.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/hashFunctions/okio/internal/HashFunction.kt
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2016 Square, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
```

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

Found in path(s):
* /opt/cola/permits/1825538429_1697657800.9267037/0/okio-3-6-0-sources-jar/commonMain/okio/Options.kt

# 1.53 openjdk-jre 11.0.21u9

## 1.53.1 Available under license :

## c-libutl 20160225

### c-libutl License
```

This software is distributed under the terms of the BSD license.

== BSD LICENSE ============================================================

(C) 2009 by Remo Dentato (rdentato@gmail.com)

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

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

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

http://opensource.org/licenses/bsd-license.php

```
## Apache Commons Byte Code Engineering Library (BCEL) Version 6.7.0

### Apache Commons BCEL Notice
<pre>

  Apache Commons BCEL
  Copyright 2004-2022 The Apache Software Foundation

  This product includes software developed at
  The Apache Software Foundation (https://www.apache.org/).

</pre>

### Apache 2.0 License
<pre>

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

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

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

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

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

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

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

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of

this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for
that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution
notices contained
within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided

that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms
and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE
file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages
of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
  the Work or Derivative Works thereof, You may choose to offer,
  and charge a fee for, acceptance of support, warranty, indemnity,
  or other liability obligations and/or rights consistent with this
  License. However, in accepting such obligations, You may act only
  on Your own behalf and on Your sole responsibility, not on behalf
  of any other Contributor, and only if You agree to indemnify,
  defend, and hold each Contributor harmless for any liability
  incurred by, or claims asserted against, such Contributor by reason
  of your accepting any such warranty
 or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

  To apply the Apache License to your work, attach the following
  boilerplate notice, with the fields enclosed by brackets "[]"
  replaced with your own identifying information. (Don't include
  the brackets!)  The text should be enclosed in the appropriate
  comment syntax for the file format. We also recommend that a
  file or class name and description of purpose be included on the
  same "printed page" as the copyright notice for easier
  identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS
 IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

</pre>
## Apache Xerces v2.12.2

### Apache Xerces Notice
<pre>
  ========================================================================
  == NOTICE file corresponding to section 4(d) of the Apache License,    ==
  == Version 2.0, in this case for the Apache Xerces Java distribution.  ==

```
 ========================================================================

  Apache Xerces Java
  Copyright 1999-2022 The Apache Software Foundation

  This product includes software developed at
  The Apache Software Foundation (http://www.apache.org/).

  Portions of this software were originally based on the following:
  - software copyright (c) 1999, IBM Corporation., http://www.ibm.com.
  - software copyright (c) 1999, Sun Microsystems., http://www.sun.com.
  - voluntary contributions made by Paul Eng on behalf of the
  Apache Software Foundation that were originally developed at iClick, Inc.,
  software copyright (c) 1999.
</pre>

### Apache 2.0 License
<pre>


                    Apache License
                  Version 2.0, January 2004
               http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

  "License" shall mean the terms and conditions for use, reproduction,
  and distribution as defined by Sections 1 through 9 of this document.

  "Licensor" shall mean the copyright owner or entity authorized by
  the copyright owner that is granting the License.

  "Legal Entity" shall mean the union of the acting entity and all
  other entities that control, are controlled by, or are under common
  control with that entity. For the purposes of this definition,
  "control" means (i) the power, direct or indirect, to cause the
  direction or management of such entity, whether by contract or
  otherwise, or (ii) ownership of fifty percent (50%) or more of the
  outstanding shares, or (iii) beneficial ownership of such entity.

  "You" (or "Your") shall mean
 an individual or Legal Entity
  exercising permissions granted by this License.

  "Source" form shall mean the preferred form for making modifications,
  including but not limited to software source code, documentation
```

source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of

this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make,
have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients
of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with
the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside

or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any
Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of
TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such

damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should
be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

</pre>
## The Unicode Standard, Unicode Character Database, Version 10.0.0

### Unicode Character Database

```
```

UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE
Unicode Data Files include all data files under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/,
http://source.icu-project.org/repos/icu/, and
http://www.unicode.org/utility/trac/browser/.

Unicode Data Files do not include PDF online code charts under the
directory http://www.unicode.org/Public/.

Software includes any source code published in the Unicode Standard
or under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/,
http://source.icu-project.org/repos/icu/, and
http://www.unicode.org/utility/trac/browser/.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU
UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright 1991-2018 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b)
this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND

NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.

```
## Pako v1.0

### Pako License
<pre>
Copyright (C) 2014-2017 by Vitaly Puzrin and Andrei Tuputcyn

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
 TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
(C) 1995-2013 Jean-loup Gailly and Mark Adler
(C) 2014-2017 Vitaly Puzrin and Andrey Tupitsin

This software is provided 'as-is', without any express or implied
warranty. In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:
```

1. The origin of this software must not be misrepresented; you must not
claim that you wrote the original software. If you use this software
in a product, an acknowledgment in the product documentation would be
appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
misrepresented as being the original software.
3. This notice may not be removed or altered from any
source distribution.

</pre>
## Mozilla Elliptic Curve Cryptography (ECC)

### Mozilla ECC Notice

This notice is provided with respect to Elliptic Curve Cryptography,
which is included with JRE, JDK, and OpenJDK.

You are receiving a
[copy](http://hg.openjdk.java.net/jdk9/jdk9/jdk/file/tip/src/jdk.crypto.ec/share/native/libsunec/impl)
of the Elliptic Curve Cryptography library in source
form with the JDK and OpenJDK source distributions, and as object code in
the JRE & JDK runtimes.
<pre>
In the case of the JRE & JDK runtimes, the terms of the Oracle license do
NOT apply to the Elliptic Curve Cryptography library; it is licensed under the
following license, separately from Oracle's JDK & JRE.  If you do not wish to
install the Elliptic Curve Cryptography library, you may delete the
Elliptic Curve Cryptography library:
  - On Solaris and Linux systems: delete $(JAVA_HOME)/lib/libsunec.so
  - On Mac OSX systems: delete $(JAVA_HOME)/lib/libsunec.dylib
  - On Windows systems: delete $(JAVA_HOME)\bin\sunec.dll

</pre>

###
 Written Offer for Source Code
<pre>

For third party technology that you receive from Oracle in binary form
which is licensed under an open source license that gives you the right
to receive the source code for that binary, you can obtain a copy of
the applicable source code from this page:
   http://hg.openjdk.java.net/jdk9/jdk9/jdk/file/tip/src/jdk.crypto.ec/share/native/libsunec/impl

If the source code for the technology was not provided to you with the
binary, you can also receive a copy of the source code on physical
media by submitting a written request to:

Oracle America, Inc.
Attn: Associate General Counsel,
Development and Engineering Legal
500 Oracle Parkway, 10th Floor
Redwood Shores, CA 94065

Or, you may send an email to Oracle using the form at:

http://www.oracle.com/goto/opensourcecode/request

Your request should include:

- The name of the component or binary file(s) for which you are requesting the source code

- The name and version
number of the Oracle product containing the binary

- The date you received the Oracle product

- Your name

- Your company name (if applicable)

- Your return mailing address and email and

- A telephone number in the event we need to reach you.

We may charge you a fee to cover the cost of physical media and processing.
Your request must be sent (i) within three (3) years of the date you
received the Oracle product that included the component or binary
file(s) that are the subject of your request, or (ii) in the case of
code licensed under the GPL v3, for as long as Oracle offers spare
parts or customer support for that product model.

</pre>

### LGPL 2.1
<pre>

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document,

but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not
price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library
after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that

there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of

free software.  For example, permission to use the GNU C Library in
non-free programs
 enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

 Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

 The precise terms and conditions for copying, distribution and
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed
 under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

 A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

 The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.  (Hereinafter, translation is
included without limitation in the term "modification".)

 "Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface
 definition files, plus the scripts used to control compilation
and installation of the library.

 Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of

running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a
fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in
the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole
must be on the terms of
this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary
GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the

source
code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even
though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to
produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work

during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with

this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version
number of this License which applies to it and
"any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT
PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE
WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest

possible use to the public, we recommend making it free software that
everyone can redistribute and change.  You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

 To apply these terms, attach the following notices to the library.  It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

  <one line to give the library's name and a brief idea of what it does.>
  Copyright (C) <year>  <name of author>

  This library is free software; you can
 redistribute it and/or
  modify it under the terms of the GNU Lesser General Public
  License as published by the Free Software Foundation; either
  version 2.1 of the License, or (at your option) any later version.

  This library is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
  Lesser General Public License for more details.

  You should have received a copy of the GNU Lesser General Public
  License along with this library; if not, write to the Free Software
  Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary.  Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims
 all copyright interest in the
 library `Frob' (a library for tweaking knobs) written by James Random Hacker.

 <signature of Ty Coon>, 1 April 1990
 Ty Coon, President of Vice

That's all there is to it!

</pre>
## Little Color Management System (LCMS) v2.15

### LCMS License
<pre>

README.1ST file information

LittleCMS core is released under MIT License

---

Little CMS
Copyright (c) 1998-2023 Marti Maria Saguer

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject
to the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN
NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

---
The below license applies to the following files:
liblcms/cmssm.c

Copyright 2001, softSurfer (www.softsurfer.com)

This code may be freely used and modified for any purpose
providing that this copyright notice is included with it.
SoftSurfer makes no warranty for this code, and cannot be held
liable for any real or imagined damage resulting from its use.
Users of this code must verify correctness for their application.

</pre>

### AUTHORS File Information
```



Main Author
```

---
Marti Maria

Contributors
---
Bob Friesenhahn
Kai-Uwe Behrmann
Stuart Nixon
Jordi Vilar
Richard Hughes
Auke Nauta
Chris Evans (Google)
Lorenzo Ridolfi
Robin Watts (Artifex)
Shawn Pedersen
Andrew Brygin
Samuli
Suominen
Florian Hch
Aurelien Jarno
Claudiu Cebuc
Michael Vhrel (Artifex)
Michal Cihar
Daniel Kaneider
Mateusz Jurczyk (Google)
Paul Miller
Sbastien Lon
Christian Schmitz
XhmikosR
Stanislav Brabec (SuSe)
Leonhard Gruenschloss (Google)
Patrick Noffke
Christopher James Halse Rogers
John Hein
Thomas Weber (Debian)
Mark Allen
Noel Carboni
Sergei Trofimovic
Philipp Knechtges
Amyspark
Lovell Fuller
Eli Schwartz

Special Thanks
---
Artifex software
AlienSkin software

libVIPS
Jan Morovic
Jos Vernon (WebSupergoo)
Harald Schneider (Maxon)
Christian Albrecht
Dimitrios Anastassakis
Lemke Software
Tim Zaman

```
## xwd v1.0.7

### xwd utility
<pre>

This is the copyright for the files in src/java.desktop/unix/native/libawt_xawt:
list.h, multiVis.h, wsutils.h, list.c, multiVis.c

Copyright 1994 Hewlett-Packard Co.
Copyright 1996, 1998  The Open Group

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation.

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING
 FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall
not be used in advertising or otherwise to promote the sale, use or
other dealings in this Software without prior written authorization
from The Open Group.

</pre>
## IAIK (Institute for Applied Information Processing and Communication) PKCS#11 wrapper files v1

### IAIK License
```

<pre>

Copyright (c) 2002 Graz University of Technology. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this
  list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

3. The end-user documentation included with the redistribution, if any, must
  include the following acknowledgment:

  "This product includes software developed by IAIK of Graz University of
  Technology."

  Alternately, this acknowledgment may appear in the software itself, if and
  wherever such third-party
 acknowledgments normally appear.

4. The names "Graz University of Technology" and "IAIK of Graz University of
  Technology" must not be used to endorse or promote products derived from this
  software without prior written permission.

5. Products derived from this software may not be called "IAIK PKCS Wrapper",
  nor may "IAIK" appear in their name, without prior written permission of
  Graz University of Technology.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
LICENSOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
 OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

</pre>
## The FreeType Project: Freetype v2.13.0

### FreeType Notice

```
FreeType comes with two licenses from which you can choose the one
which fits your needs best.

  The FreeType License (FTL) is the most commonly used one. It is
  a BSD-style license with a credit clause and thus compatible with
  the GNU Public License (GPL) version 3, but not with the
  GPL version 2.

  The GNU General Public License (GPL), version 2. Use it for all
  projects which use the GPLv2 also, or which need a license
  compatible to the GPLv2.
```

### FreeType License

```
Copyright (C) 1996-2023 by David Turner, Robert Wilhelm, and Werner Lemberg.
Copyright (C) 2007-2023 by Dereg Clegg and Michael Toftdal.
Copyright (C) 1996-2023 by Just van Rossum, David Turner, Robert Wilhelm, and Werner Lemberg.
Copyright (C) 2022-2023 by David Turner, Robert Wilhelm, Werner Lemberg, George Williams, and
Copyright (C) 2004-2023 by Masatake YAMATO and Redhat K.K.
Copyright (C) 2007-2023 by Derek Clegg and
 Michael Toftdal.
Copyright (C) 2003-2023 by Masatake YAMATO, Red Hat K.K.,
Copyright (C) 1996-2023 by David Turner, Robert Wilhelm, Werner Lemberg, and Dominik Rttsches.
Copyright (C) 2007-2023 by David Turner.
Copyright (C) 2022-2023 by David Turner, Robert Wilhelm, Werner Lemberg, and Moazin Khatti.
Copyright (C) 2007-2023 by Rahul Bhalerao <rahul.bhalerao@redhat.com>, <b.rahul.pm@gmail.com>.
Copyright (C) 2008-2023 by David Turner, Robert Wilhelm, Werner Lemberg, and suzuki toshiya.
Copyright (C) 2013-2023 by Google, Inc.
Copyright (C) 2019-2023 by Nikhil Ramakrishnan, David Turner, Robert Wilhelm, and Werner Lemberg.
Copyright (C) 2009-2023 by Oran Agra and Mickey Gabel.
Copyright (C) 2018-2023 by David Turner, Robert Wilhelm, Dominik Rttsches, and Werner Lemberg.
Copyright (C) 2004-2023 by David Turner, Robert Wilhelm, Werner Lemberg, and George Williams.


                The FreeType Project LICENSE
                ----------------------------


    2006-Jan-27


                Copyright 1996-2002, 2006 by
          David Turner, Robert Wilhelm, and Werner Lemberg
```

Introduction
============

The FreeType Project is distributed in several archive packages;
some of them may contain, in addition to the FreeType font engine,
various tools and contributions which rely on, or relate to, the
FreeType Project.

This license applies to all files found in such packages, and
which do not fall under their own explicit license. The license
affects thus the FreeType font engine, the test programs,
documentation and makefiles, at the very least.

This license was inspired by the BSD, Artistic, and IJG
(Independent JPEG Group) licenses, which all encourage inclusion
and use of free software in commercial and freeware products
alike. As a consequence, its main points are that:

o We don't promise that this software works. However, we will be
interested in any kind
of bug reports. (`as is' distribution)

o You can use this software for whatever you want, in parts or
full form, without having to pay us. (`royalty-free' usage)

o You may not pretend that you wrote this software. If you use
it, or only parts of it, in a program, you must acknowledge
somewhere in your documentation that you have used the
FreeType code. (`credits')

We specifically permit and encourage the inclusion of this
software, with or without modifications, in commercial products.
We disclaim all warranties covering The FreeType Project and
assume no liability related to The FreeType Project.

Finally, many people asked us for a preferred form for a
credit/disclaimer to use in compliance with this license. We thus
encourage you to use the following text:

"""
Portions of this software are copyright <year> The FreeType
Project (www.freetype.org). All rights reserved.
"""

Please replace <year> with the value from the FreeType version you
actually use.

Legal Terms
==========

0. Definitions
---

Throughout this license, the terms `package', `FreeType Project',
and `FreeType archive' refer to the set of files originally
distributed by the authors (David Turner, Robert Wilhelm, and
Werner Lemberg) as the `FreeType Project', be they named as alpha,
beta or final release.

`You' refers to the licensee, or person using the project, where
`using' is a generic term including compiling the project's source
code as well as linking it to form a `program' or `executable'.
This program is referred to as `a program using the FreeType
engine'.

This license applies to all files distributed in the original
FreeType Project, including all source code, binaries and
documentation, unless otherwise stated in the file in its
original, unmodified form as distributed in the original archive.
If you are unsure whether or not a particular file is covered by
this license, you must contact us to verify this.

The FreeType Project is copyright (C) 1996-2000 by David Turner,
Robert Wilhelm, and Werner Lemberg. All rights reserved except as
specified below.

1. No Warranty
---

THE FREETYPE PROJECT IS PROVIDED `AS IS' WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. IN NO EVENT WILL ANY OF THE AUTHORS OR COPYRIGHT HOLDERS
BE LIABLE FOR ANY DAMAGES CAUSED BY THE USE OR THE INABILITY TO
USE, OF THE FREETYPE PROJECT.

2. Redistribution
---

This license grants a worldwide, royalty-free, perpetual and

irrevocable right and license to use, execute, perform, compile, display, copy, create derivative works of, distribute and sublicense the FreeType Project (in both source and object code
forms) and derivative works thereof for any purpose; and to authorize others to exercise some or all of the rights granted herein, subject to the following conditions:

o Redistribution of source code must retain this license file (`FTL.TXT') unaltered; any additions, deletions or changes to the original files must be clearly indicated in accompanying documentation. The copyright notices of the unaltered, original files must be preserved in all copies of source files.

o Redistribution in binary form must provide a disclaimer that states that the software is based in part of the work of the FreeType Team, in the distribution documentation. We also encourage you to put an URL to the FreeType web page in your documentation, though this isn't mandatory.

These conditions apply to any software derived from or based on the FreeType Project, not just the unmodified files.
If you use
our work, you must acknowledge us. However, no fee need be paid to us.

3. Advertising
---

Neither the FreeType authors and contributors nor you shall use the name of the other for commercial, advertising, or promotional purposes without specific prior written permission.

We suggest, but do not require, that you use one or more of the following phrases to refer to this software in your documentation or advertising materials: `FreeType Project', `FreeType Engine', `FreeType library', or `FreeType Distribution'.

As you have not signed this license, you are not required to accept it. However, as the FreeType Project is copyrighted material, only this license, or another one contracted with the authors, grants you the right to use, distribute, and modify it. Therefore, by using, distributing, or modifying the FreeType Project, you indicate that you understand and accept all the terms of this
license.

4. Contacts
----------

There are two mailing lists related to FreeType:

  o freetype@nongnu.org

    Discusses general use and applications of FreeType, as well as
    future and  wanted additions to the  library and distribution.
    If  you are looking  for support,  start in  this list  if you
    haven't found anything to help you in the documentation.

  o freetype-devel@nongnu.org

    Discusses bugs,  as well  as engine internals,  design issues,
    specific licenses, porting, etc.

Our home page can be found at

  https://www.freetype.org

```

### GPL v2

```
      GNU GENERAL PUBLIC LICENSE
         Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
    51 Franklin St, Fifth Floor, Boston, MA  02110-1301  USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

       Preamble

 The licenses for most software are designed to take away your
freedom
 to share and change it.  By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users.  This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it.  (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.)  You can apply it to
your programs, too.

 When we speak of free software, we are referring to freedom, not
```
```

price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you
these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors'
reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it,

either verbatim or with
modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You
may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in
whole or in part contains or is derived from the Program or any
part thereof, to be licensed as a whole at no charge to all third
parties under the terms of this License.

c) If the modified program normally reads commands interactively
when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
announcement
including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany
it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to

control compilation and installation
of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License
will not have their licenses terminated so long as such
parties remain in full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third
parties to
this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you

may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section
as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may
add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate
parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE
DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these
terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with
this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program,
if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

```

### Additional Freetype Attributions
```

---
The below license applies to the following files:
libfreetype/src/psaux/psarrst.c
libfreetype/src/psaux/psarrst.h
libfreetype/src/psaux/psblues.c
libfreetype/src/psaux/psblues.h
libfreetype/src/psaux/pserror.c
libfreetype/src/psaux/pserror.h
libfreetype/src/psaux/psfixed.h
libfreetype/src/psaux/psfont.c
libfreetype/src/psaux/psfont.h
libfreetype/src/psaux/psft.c
libfreetype/src/psaux/psft.h
libfreetype/src/psaux/psglue.h
libfreetype/src/psaux/pshints.c
libfreetype/src/psaux/pshints.h
libfreetype/src/psaux/psintrp.c
libfreetype/src/psaux/psintrp.h
libfreetype/src/psaux/psread.c
libfreetype/src/psaux/psread.h
libfreetype/src/psaux/psstack.c
libfreetype/src/psaux/psstack.h
libfreetype/src/psaux/pstypes.h

Copyright
 2006-2014 Adobe Systems Incorporated.

This software, and all works of authorship, whether in source or
object code form as indicated by the copyright notice(s) included
herein (collectively, the "Work") is made available, and may only be
used, modified, and distributed under the FreeType Project License,
LICENSE.TXT.  Additionally, subject to the terms and conditions of the
FreeType Project License, each contributor to the Work hereby grants
to any individual or legal entity exercising permissions granted by
the FreeType Project License and this section (hereafter, "You" or
"Your") a
 perpetual, worldwide, non-exclusive, no-charge,
royalty-free, irrevocable (except as stated in this section) patent
license to make, have made, use, offer to sell, sell, import, and
otherwise transfer the Work, where such license applies only to those
patent claims licensable by such contributor that are necessarily
infringed by their contribution(s) alone or by combination of their

contribution(s) with the Work to which such contribution(s) was
submitted.  If You institute patent litigation against any entity
(including a cross-claim or counterclaim in a lawsuit) alleging that
the Work or a contribution incorporated within the Work constitutes
direct or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate as of
the date such litigation is filed.

By using, modifying, or distributing the Work you indicate that you
have read and understood the terms and conditions of the
FreeType Project License as well as those provided
 in this section,
and you accept them fully.

```

### MIT License
```

---
The below license applies to the following files:
libfreetype/include/freetype/internal/fthash.h
libfreetype/src/base/fthash.c

Copyright 2000 Computing Research Labs, New Mexico State University
Copyright 2001-2015

 Francesco Zappa Nardelli

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED,
 INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL
THE COMPUTING RESEARCH LAB OR NEW MEXICO STATE UNIVERSITY BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT
OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR
THE USE OR OTHER DEALINGS IN THE SOFTWARE.

```
## PC/SC Lite v1.9.5

### PC/SC Lite License
<pre>

The main parts of the code are using the BSD-like licence bellow:

Copyright (c) 1999-2003 David Corcoran <corcoran@linuxnet.com>
Copyright (c) 2001-2011 Ludovic Rousseau <ludovic.rousseau@free.fr>
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

  1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
  2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
  3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

Changes to this license can be made only by the copyright author with explicit written consent.

THIS
 SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Some source code files are using other licences. See the [COPYING](https://salsa.debian.org/rousseau/PCSC/-/blob/master/COPYING) file for details.

</pre>
## JSZip v3.7.1

JSZip is dual licensed. You may use it under the MIT license *or* the GPLv3
license.

### The MIT License
```

Copyright (c) 2009-2016 Stuart Knightley, David Duponchel, Franz Buchinger, Antnio Afonso

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

### GPL version 3
```

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its
users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not

price.  Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights.  Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must
pass on to the recipients the same
freedoms that you received.  You must make sure that they, too, receive or can get the source code.  And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software.  For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so.  This is fundamentally incompatible with the aim of protecting users' freedom to change the software.  The systematic pattern of such
abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable.  Therefore, we have designed this version of the GPL to prohibit the practice for those products.  If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary.  To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and

modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the
GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making
available to the
public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work

for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a

covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under
your direction
and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users,
your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey,

and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by the
Corresponding Source
fixed on a durable physical medium
customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially,
and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided

you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer
product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source
conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special
password or key for
unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files,
a statement of the
additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover,
your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other
than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under
the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether

already acquired or
hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make
such an agreement or commitment not to enforce a
patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with
a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are

specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent
license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that
obligate you
to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the
present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided

above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS
```

## Double-conversion v1.1.5

### Double-conversion License

https://raw.githubusercontent.com/google/double-conversion/master/LICENSE

<pre>

Copyright 2006-2011, the V8 project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
 notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
 copyright notice, this list of conditions and the following
 disclaimer in the documentation and/or other materials provided
 with the distribution.
* Neither the name of Google Inc. nor the names of its
 contributors may be used to endorse or promote products derived
 from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING,
 BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

</pre>
## libpng v1.6.39

### libpng License
```

<pre>

COPYRIGHT NOTICE, DISCLAIMER, and LICENSE
==========

PNG Reference Library License version 2
---

Copyright (c) 1995-2022 The PNG Reference Library Authors.
Copyright (c) 2018-2022 Cosmin Truta
Copyright (c) 1998-2018 Glenn Randers-Pehrson
Copyright (c) 1996-1997 Andreas Dilger
Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

The software is supplied "as is", without warranty of any kind,
express or implied, including, without limitation, the warranties
of merchantability, fitness for a particular purpose, title, and
non-infringement.  In no event shall the Copyright owners, or
anyone distributing the software, be liable for any damages or
other liability, whether in contract, tort or otherwise, arising
from, out of, or in connection with the software, or the use or
other dealings in the software, even if advised of the possibility
of such damage.

Permission is hereby
 granted to use, copy, modify, and distribute
this software, or portions hereof, for any purpose, without fee,
subject to the following restrictions:

1. The origin of this software must not be misrepresented; you
   must not claim that you wrote the original software.  If you
   use this software in a product, an acknowledgment in the product
   documentation would be appreciated, but is not required.

2. Altered source versions must be plainly marked as such, and must
   not be misrepresented as being the original software.

3. This Copyright notice may not be removed or altered from any
   source or altered source distribution.


PNG Reference Library License version 1 (for libpng 0.5 through 1.6.35)
---

libpng versions 1.0.7, July 1, 2000, through 1.6.35, July 15, 2018 are
Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson, are
derived from libpng-1.0.6, and are distributed according to the

same
disclaimer and license as libpng-1.0.6 with the following individuals
added to the list of Contributing Authors:

Simon-Pierre Cadieux
Eric S. Raymond
Mans Rullgard
Cosmin Truta
Gilles Vollant
James Yu
Mandar Sahastrabuddhe
Google Inc.
Vadim Barkov

and with the following additions to the disclaimer:

There is no warranty against interference with your enjoyment of
the library or against infringement. There is no warranty that our
efforts or the library will fulfill any of your particular purposes
or needs. This library is provided with all faults, and the entire
risk of satisfactory quality, performance, accuracy, and effort is
with the user.

Some files in the "contrib" directory and some configure-generated
files that are distributed with libpng have other copyright owners, and
are released under other open source licenses.

libpng versions 0.97, January 1998, through 1.0.6, March 20, 2000, are
Copyright (c) 1998-2000
Glenn Randers-Pehrson, are derived from
libpng-0.96, and are distributed according to the same disclaimer and
license as libpng-0.96, with the following individuals added to the
list of Contributing Authors:

Tom Lane
Glenn Randers-Pehrson
Willem van Schaik

libpng versions 0.89, June 1996, through 0.96, May 1997, are
Copyright (c) 1996-1997 Andreas Dilger, are derived from libpng-0.88,
and are distributed according to the same disclaimer and license as
libpng-0.88, with the following individuals added to the list of
Contributing Authors:

John Bowler
Kevin Bracey
Sam Bushell
Magnus Holmgren

Greg Roelofs
Tom Tanner

Some files in the "scripts" directory have other copyright owners,
but are released under this license.

libpng versions 0.5, May 1995, through 0.88, January 1996, are
Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

For the purposes of this copyright and license, "Contributing Authors"
is defined as the following set of individuals:

Andreas Dilger
Dave Martindale
Guy Eric Schalnat
Paul Schmidt
Tim Wegner

The PNG Reference Library is supplied "AS IS". The Contributing
Authors and Group 42, Inc. disclaim all warranties, expressed or
implied, including, without limitation, the warranties of
merchantability and of fitness for any purpose. The Contributing
Authors and Group 42, Inc. assume no liability for direct, indirect,
incidental, special, exemplary, or consequential damages, which may
result from the use of the PNG Reference Library, even if advised of
the possibility of such damage.

Permission is hereby granted to use, copy, modify, and distribute this
source code, or portions hereof, for any purpose, without fee, subject
to the following restrictions:

1. The origin of this source code must not be misrepresented.

2. Altered versions must be plainly marked as such and must not
be misrepresented as being the original source.

3. This Copyright notice may not be removed or
altered from any
source or altered source distribution.

The Contributing Authors and Group 42, Inc. specifically permit,
without fee, and encourage the use of this source code as a component
to supporting the PNG file format in commercial products. If you use
this source code in a product, acknowledgment is not required but would
be appreciated.

TRADEMARK
=========

The name "libpng" has not been registered by the Copyright owners
as a trademark in any jurisdiction.  However, because libpng has
been distributed and maintained world-wide, continually since 1995,
the Copyright owners claim "common-law trademark protection" in any
jurisdiction where common-law trademark is recognized.

</pre>

### AUTHORS File Information
```
PNG REFERENCE LIBRARY AUTHORS
==========================

This is the list of PNG Reference Library ("libpng") Contributing
Authors, for copyright and licensing purposes.

* Andreas Dilger
* Cosmin Truta
* Dave Martindale
* Eric S. Raymond
* Gilles Vollant
 * Glenn Randers-Pehrson
* Greg Roelofs
* Guy Eric Schalnat
* James Yu
* John Bowler
* Kevin Bracey
* Magnus Holmgren
* Mandar Sahastrabuddhe
* Mans Rullgard
* Matt Sarett
* Mike Klein
* Pascal Massimino
* Paul Schmidt
* Qiang Zhou
* Sam Bushell
* Samuel Williams
* Simon-Pierre Cadieux
* Tim Wegner
* Tom Lane
* Tom Tanner
* Vadim Barkov
* Willem van Schaik
* Zhijie Liang
* Arm Holdings
  - Richard Townsend
* Google Inc.
```

- Dan Field
- Leon Scroggins III
- Matt Sarett
- Mike Klein
- Sami Boukortt

The build projects, the build scripts, the test scripts, and other
files in the "ci", "projects", "scripts" and "tests" directories, have
other copyright owners, but are released under the libpng license.

Some files in the "contrib" directory, and some tools-generated files
that are distributed with libpng, have other copyright owners, and are
released under other open source licenses.
```
## Eastman Kodak Company: Portions of color management and imaging software

### Eastman Kodak Notice
<pre>
Portions Copyright Eastman Kodak Company 1991-2003
</pre>
## Thai Dictionary

### Thai Dictionary License
<pre>

Copyright (C) 1982 The Royal Institute, Thai Royal Government.

Copyright (C) 1998 National Electronics and Computer Technology Center,
National Science and Technology Development Agency,
Ministry of Science Technology and Environment,
Thai Royal Government.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
 OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
```

OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

</pre>
## Apache Santuario v2.3.0

### Apache Santuario Notice
<pre>

Apache Santuario - XML Security for Java
Copyright 1999-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

It was originally based on software copyright (c) 2001, Institute for
Data Communications Systems, <http://www.nue.et-inf.uni-siegen.de/>.

The development of this software was partly funded by the European
Commission in the <WebSig> project in the ISIS Programme.

</pre>

### Apache 2.0 License
<pre>

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity
authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object
code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this

License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a

cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that
do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or

documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from
the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not
grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless
required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,

incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on
behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except
in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

</pre>

## Mozilla Public Suffix List

### Public Suffix Notice
```
You are receiving a copy of the Mozilla Public Suffix List in the following
file: <java-home>/lib/security/public_suffix_list.dat. The terms of the
Oracle license do NOT apply to this file; it is licensed under the
Mozilla Public License 2.0, separately from the Oracle programs you receive.
If you do not wish to use the Public Suffix List, you may remove the
<java-home>/lib/security/public_suffix_list.dat file.

The Source Code of this file is available under the
Mozilla Public License, v. 2.0 and is located at
https://raw.githubusercontent.com/publicsuffix/list/88467c960d6cdad2ca1623e892e5e17506bc269f/public_suffix_list.dat.
If a copy of the MPL was not distributed with this file, you can obtain one
at https://mozilla.org/MPL/2.0/.

Software distributed under the License is distributed on an "AS IS" basis,
WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License
for the specific language governing rights and limitations
 under the License.
```

### MPL v2.0
```
Mozilla Public License Version 2.0
==================================

1. Definitions
--------------

1.1. "Contributor"
  means each individual or legal entity that creates, contributes to
  the creation of, or owns Covered Software.

1.2. "Contributor Version"
  means the combination of the Contributions of others (if any) used
  by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
  means Covered Software of a particular Contributor.

1.4. "Covered Software"
  means Source Code Form to which the initial Contributor has attached
  the notice in Exhibit A, the Executable Form of such Source Code
  Form, and Modifications of such Source Code Form, in each case
  including portions thereof.
```

1.5. "Incompatible With Secondary Licenses"
means

(a) that the initial Contributor has attached the notice described
in Exhibit B to the Covered Software; or

(b) that the Covered
Software was made available under the terms of
version 1.1 or earlier of the License, but not also under the
terms of a Secondary License.

1.6. "Executable Form"
means any form of the work other than Source Code Form.

1.7. "Larger Work"
means a work that combines Covered Software with other material, in
a separate file or files, that is not Covered Software.

1.8. "License"
means this document.

1.9. "Licensable"
means having the right to grant, to the maximum extent possible,
whether at the time of the initial grant or subsequently, any and
all of the rights conveyed by this License.

1.10. "Modifications"
means any of the following:

(a) any file in Source Code Form that results from an addition to,
deletion from, or modification of the contents of Covered
Software; or

(b) any new file in Source Code Form that contains any Covered
Software.

1.11. "Patent Claims" of a Contributor
means any patent
claim(s), including without limitation, method,
process, and apparatus claims, in any patent Licensable by such
Contributor that would be infringed, but for the grant of the
License, by the making, using, selling, offering for sale, having
made, import, or transfer of either its Contributions or its
Contributor Version.

1.12. "Secondary License"
means either the GNU General Public License, Version 2.0, the GNU

Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"
means the form of the work preferred for making modifications.

1.14. "You" (or "Your")
means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect,
to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions
---

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for
each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License.

Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

(a) for any code that a Contributor has removed from Covered Software; or

(b) for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

(c) under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section
3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities
---

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms
of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3.
Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known
factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation
---

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must:
(a) comply with
the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination
---

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from
a particular
Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to

You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

```
************************************************************************
*                                                                      *
*  6. Disclaimer of Warranty                                           *
*  -------------------------                                           *
*                                                                      *
*  Covered Software is provided under this License on an "as is"       *
*  basis, without warranty of any kind, either expressed, implied, or  *
*  statutory, including, without limitation, warranties that the       *
*  Covered Software is free of defects, merchantable, fit for a        *
*  particular purpose or non-infringing. The entire risk as to the     *
*  quality and performance of the Covered Software is with You.        *
*  Should any Covered Software prove defective in any respect, You     *
*  (not any Contributor) assume the cost of any necessary servicing,   *
*  repair, or correction. This disclaimer of warranty constitutes an   *
*  essential part of this License. No use of any Covered Software is   *
*  authorized under this License except under this disclaimer.         *
*                                                                      *
************************************************************************

************************************************************************
*                                                                      *
*  7. Limitation of Liability                                          *
*  --------------------------                                          *
*                                                                      *
*  Under no circumstances and under no legal theory, whether tort      *
*  (including negligence), contract, or otherwise, shall any           *
*  Contributor, or anyone who distributes Covered Software as          *
*  permitted above, be liable to You for any direct, indirect,         *
*  special, incidental, or consequential damages of any character      *
*  including, without limitation, damages for lost profits, loss of    *
*  goodwill, work stoppage, computer failure or malfunction, or any    *
*  and all other commercial damages or losses, even if such party      *
*  shall have been informed of the possibility of such damages. This   *
*  limitation of liability shall not apply to liability for death or   *
*  personal injury resulting from such party's negligence to the       *
*  extent applicable law prohibits such limitation. Some               *
*  jurisdictions do not allow the exclusion or limitation of           *
```

* incidental or consequential damages, so this exclusion and *
* limitation may not apply to You. *
* *
**********

8. Litigation
---

Any litigation relating to this License may be brought only in the courts
of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

9. Miscellaneous
---

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License
---

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License.
Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a

modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses

If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
---

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at https://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice
---

This Source Code Form is "Incompatible With Secondary Licenses", as defined by the Mozilla Public License, v. 2.0.

```
ADDITIONAL INFORMATION ABOUT LICENSING

Certain files distributed by Oracle America, Inc. and/or its affiliates are subject to the following clarification and special exception to the GPLv2, based on the GNU Project exception for its Classpath libraries, known as the GNU Classpath Exception.

Note that Oracle includes multiple, independent programs in this software package.  Some of those programs are provided under licenses deemed incompatible with the GPLv2 by the Free Software Foundation and others. For example, the package includes programs licensed under the Apache License, Version 2.0 and may include FreeType. Such programs are licensed to you under their original licenses.

Oracle facilitates your further distribution of this package by adding the Classpath Exception to the necessary parts of its GPLv2 code, which permits
```

you to use that code in combination with other independent modules not licensed under the GPLv2. However, note that this would
 not permit you to
commingle code under an incompatible license with Oracle's GPLv2 licensed code by, for example, cutting and pasting such code into a file also containing Oracle's GPLv2 licensed code and then distributing the result.

Additionally, if you were to remove the Classpath Exception from any of the files to which it applies and distribute the result, you would likely be required to license some or all of the other code in that distribution under the GPLv2 as well, and since the GPLv2 is incompatible with the license terms of some items included in the distribution by Oracle, removing the Classpath Exception could therefore effectively compromise your ability to further distribute the package.

Failing to distribute notices associated with some files may also create unexpected legal consequences.

Proceed with caution and we recommend that you obtain the advice of a lawyer skilled in open source matters before removing the Classpath Exception or making modifications
 to this package which may subsequently be redistributed
and/or involve the use of third party software.
## OASIS PKCS #11 Cryptographic Token Interface v3.0

### OASIS PKCS #11 Cryptographic Token Interface License
<pre>

Copyright  OASIS Open 2020. All Rights Reserved.

 All capitalized terms in the following text have the meanings assigned to them in the OASIS Intellectual Property Rights Policy (the "OASIS IPR Policy"). The full Policy may be found at the OASIS website: [http://www.oasis-open.org/policies-guidelines/ipr]

 This document and translations of it may be copied and furnished to others, and derivative works that comment on or otherwise explain it or assist in its implementation may be prepared, copied, published, and distributed, in whole or in part, without restriction of any kind, provided that the above copyright notice and this section are included on all such copies and derivative works. However, this document itself may not be modified in any way, including by removing the copyright notice or references to OASIS, except as needed for the purpose of developing any
 document or deliverable produced by an OASIS Technical Committee (in which case the rules applicable to copyrights, as set forth in the OASIS IPR Policy, must be followed) or as required to translate it into languages other than English.

The limited permissions granted above are perpetual and will not be revoked by OASIS or its successors or assigns.

This document and the information contained herein is provided on an "AS IS" basis and OASIS DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY THAT THE USE OF THE INFORMATION HEREIN WILL NOT INFRINGE ANY OWNERSHIP RIGHTS OR ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. OASIS AND ITS MEMBERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THIS DOCUMENT OR ANY PART THEREOF.

[OASIS requests that any OASIS Party or any other party that believes it has patent claims that would necessarily be infringed by implementations of this OASIS Standards Final Deliverable, to notify OASIS TC Administrator and provide an indication of its willingness to grant patent licenses to such patent claims in a manner consistent with the IPR Mode of the OASIS Technical Committee that produced this deliverable.]

[OASIS invites any party to contact the OASIS TC Administrator if it is aware of a claim of ownership of any patent claims that would necessarily be infringed by implementations of this OASIS Standards Final Deliverable by a patent holder that is not willing to provide a license to such patent claims in a manner consistent with the IPR Mode of the OASIS Technical Committee that produced this OASIS Standards Final Deliverable. OASIS may include such claims on its website, but disclaims any obligation to do so.]

[OASIS takes no position regarding the validity or scope of any intellectual property or other rights that might be claimed to pertain to the implementation or use of the technology described in this OASIS Standards Final Deliverable or the extent to which any license under such rights might or might not be available; neither does it represent that it has made any effort to identify any such rights. Information on OASIS' procedures with respect to rights in any document or deliverable produced by an OASIS Technical Committee can be found on the OASIS website. Copies of claims of rights made available for publication and any assurances of licenses to be made available, or the result of an attempt made to obtain a general license or permission for the use of such proprietary rights by implementers or users of this OASIS Standards Final Deliverable, can be obtained from the OASIS TC Administrator. OASIS makes no representation that any information or list of intellectual property rights will at any time be complete, or that any claims in such list are, in fact, Essential Claims.]

</pre>
## DOM Level 3 Core Specification v1.0

### W3C Software Notice
<pre>
Copyright  2004 World Wide Web Consortium, (Massachusetts Institute of Technology,
European Research Consortium for Informatics and Mathematics, Keio University).
All Rights Reserved.

The DOM bindings are published under the W3C Software Copyright Notice and License.
The software license requires "Notice of any changes or modifications to the W3C
files, including the date changes were made." Consequently, modified versions of
the DOM bindings must document that they do not conform to the W3C standard; in the
case of the IDL definitions, the pragma prefix can no longer be 'w3c.org'; in the
case of the Java language binding, the package names can no longer be in the
'org.w3c' package.
</pre>

### W3C License
<pre>

W3C SOFTWARE NOTICE AND LICENSE

http://www.w3.org/Consortium/Legal/2002/copyright-software-20021231

This work (and included software, documentation such as READMEs, or other
related items) is being provided
 by the copyright holders under the following
license. By obtaining, using and/or copying this work, you (the licensee)
agree that you have read, understood, and will comply with the following terms
and conditions.

Permission to copy, modify, and distribute this software and its
documentation, with or without modification, for any purpose and without fee
or royalty is hereby granted, provided that you include the following on ALL
copies of the software and documentation or portions thereof, including
modifications:

1.The full text of this NOTICE in a location viewable to users of the
redistributed or derivative work.

2.Any pre-existing intellectual property disclaimers, notices, or terms and
conditions. If none exist, the W3C Software Short Notice should be included
(hypertext is preferred, text is permitted) within the body of any
redistributed or derivative code.

3.Notice of any changes or modifications to the files, including the date

changes were made.
(We recommend you provide URIs to the location from
which the code is derived.)

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE OR DOCUMENTATION WILL NOT INFRINGE ANY THIRD PARTY PATENTS,COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE SOFTWARE OR DOCUMENTATION. The name and trademarks of copyright holders may NOT be used in advertising or publicity pertaining to the software without specific, written prior permission. Title to copyright in this software and any associated documentation will at all times remain with copyright holders.

---

This formulation of W3C's notice and license became active on December 31 2002. This
version removes the copyright ownership notice such that this license can be used with materials other than those owned by the W3C, reflects that ERCIM is now a host of the W3C, includes references to this specific dated version of the license, and removes the ambiguous grant of "use". Otherwise, this version is the same as the previous version and is written so as to preserve the Free Software Foundation's assessment of GPL compatibility and OSI's certification under the Open Source Definition. Please see our Copyright FAQ for common questions about using materials from our site, including specific terms and conditions for packages like libwww, Amaya, and Jigsaw. Other questions about this notice can be directed to site-policy@w3.org.

</pre>
## Cryptix AES v3.2.0

### Cryptix General License
<pre>

Cryptix General License

Copyright (c) 1995-2005 The Cryptix Foundation Limited.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the copyright notice,
   this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in
   the documentation and/or other materials provided with the
   distribution.

THIS SOFTWARE IS PROVIDED BY THE CRYPTIX FOUNDATION LIMITED AND
CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE CRYPTIX FOUNDATION LIMITED OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT,
 INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN
IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

</pre>

OPENJDK ASSEMBLY EXCEPTION

The OpenJDK source code made available by Oracle America, Inc. (Oracle) at
openjdk.java.net ("OpenJDK Code") is distributed under the terms of the GNU
General Public License <http://www.gnu.org/copyleft/gpl.html> version 2
only ("GPL2"), with the following clarification and special exception.

  Linking this OpenJDK Code statically or dynamically with other code
  is making a combined work based on this library.  Thus, the terms
  and conditions of GPL2 cover the whole combination.

  As a special exception, Oracle gives you permission to link this
  OpenJDK Code with certain code licensed by Oracle as indicated at
  http://openjdk.java.net/legal/exception-modules-2007-05-08.html
  ("Designated Exception Modules") to produce an executable,
  regardless of the license terms of the Designated Exception Modules,
  and to copy and distribute the resulting executable under GPL2,
  provided that the Designated Exception Modules continue to be
   governed by the licenses under which they were offered by Oracle.

As such, it allows licensees and sublicensees of Oracle's GPL2 OpenJDK Code
to build an executable that includes those portions of necessary code that
Oracle could not provide under GPL2 (or that Oracle has provided under GPL2
with the Classpath exception).  If you modify or add to the OpenJDK code,

that new GPL2 code may still be combined with Designated Exception Modules
if the new code is made subject to this exception by its copyright holder.
## International Components for Unicode (ICU4J) v60.2

### ICU4J License

```

UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE
Unicode Data Files include all data files under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/,
http://source.icu-project.org/repos/icu/, and
http://www.unicode.org/utility/trac/browser/.

Unicode Data Files do not include PDF online code charts under the
directory http://www.unicode.org/Public/.

Software includes any source code published in the Unicode Standard
or under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/,
http://source.icu-project.org/repos/icu/, and
http://www.unicode.org/utility/trac/browser/.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT,
 AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright  1991-2018 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
```

of the Data Files or Software, or
(b) this copyright and permission
notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.

```
## jopt-simple v5.0.4

### MIT License
<pre>

Copyright (c) 2004-2015 Paul R. Holser, Jr.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
```

</pre>
## Independent JPEG Group: JPEG release 6b

### JPEG License
<pre>

Must reproduce following license in documentation and/or other materials
provided with distribution:

The authors make NO WARRANTY or representation, either express or implied,
with respect to this software, its quality, accuracy, merchantability, or
fitness for a particular purpose.  This software is provided "AS IS",
and you, its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-1998, Thomas G. Lane.
All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute
this software (or portions thereof) for any purpose, without fee,
subject to these conditions:

(1) If any part of the source code for this software is distributed,
then this README file must be included, with this copyright and no-warranty
notice unaltered; and any additions, deletions, or changes to the original
files must be clearly indicated in accompanying documentation.

(2)
 If only executable code is distributed, then the accompanying documentation
must state that "this software is based in part on the work of the
Independent JPEG Group".

(3) Permission for use of this software is granted only if the user accepts
full responsibility for any undesirable consequences; the authors accept
NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code,
not just to the unmodified library.  If you use our work, you ought to
acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name
in advertising or publicity relating to this software or products derived
from it.  This software may be referred to only as "the Independent JPEG
Group's software".

We specifically permit and encourage the use of this software as the basis
of commercial products, provided that all warranty or liability claims are
assumed by the product vendor.

ansi2knr.c is included in this
distribution by permission of L. Peter Deutsch,
sole proprietor of its copyright holder, Aladdin Enterprises of Menlo Park, CA.
ansi2knr.c is NOT covered by the above copyright and conditions, but instead
by the usual distribution terms of the Free Software Foundation; principally,
that you must include source code if you redistribute it.
(See the file ansi2knr.c for full details.) However, since ansi2knr.c is
not needed as part of any program generated from the IJG code, this does not
limit you more than the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf.
It is copyright by the Free Software Foundation but is freely distributable.
The same holds for its supporting scripts (config.guess, config.sub,
ltconfig, ltmain.sh). Another support script, install-sh, is copyright
by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered
by patents owned by IBM, AT&T, and Mitsubishi.
Hence arithmetic coding
cannot legally be used without obtaining one or more licenses. For this
reason, support for arithmetic coding has been removed from the free
JPEG software. (Since arithmetic coding provides only a marginal gain
over the unpatented Huffman mode, it is unlikely that very many
implementations will support it.) So far as we are aware, there are
no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support
has been removed altogether, and the GIF writer has been simplified to
produce "uncompressed GIFs". This technique does not use the LZW algorithm;
the resulting GIF files are larger than usual, but are readable by all
standard GIF decoders.

We are required to state that "The Graphics Interchange Format(c) is
the Copyright property of CompuServe Incorporated. GIF(sm) is a
Service Mark property of CompuServe Incorporated."

</pre>
## jQuery v3.6.1

### jQuery License
```
jQuery v 3.6.1
Copyright OpenJS Foundation and other contributors, https://openjsf.org/

Permission is hereby granted, free of charge, to any person obtaining
```

a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER
IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

**********

The jQuery JavaScript Library v3.6.1 also includes Sizzle.js

Sizzle.js includes the following license:

Copyright JS Foundation and other contributors, https://js.foundation/

This software consists of voluntary contributions made by many
individuals. For exact contribution history, see the revision history
available at https://github.com/jquery/sizzle

The following license applies to all parts of this software except as
documented below:

====

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons
to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====

All files located in the node_modules and external directories are
externally maintained libraries used by this software which have their
own licenses; we recommend you read them, as their terms may differ from
the terms above.

**********

```
## Apache Xalan v2.7.2

### Apache Xalan Notice
<pre>

================================================================================
====
  ==  NOTICE file corresponding to the section 4d of the Apache License, Version 2.0, ==
  ==  in this case for the Apache Xalan distribution.                           ==
================================================================================
====

 This product includes software developed by
 The Apache Software Foundation (http://www.apache.org/).

 Specifically, we only include the XSLTC portion of the source from the Xalan distribution.
 The Xalan project has two processors: an interpretive one (Xalan Interpretive) and a
 compiled one (The XSLT Compiler (XSLTC)). We *only* use the XSLTC part of Xalan; We use
 the source from the packages that are part of the XSLTC sources.

 Portions of this software was originally based on the following:

   - software copyright (c) 1999-2002, Lotus Development Corporation.,
http://www.lotus.com.
   - software copyright (c) 2001-2002, Sun Microsystems., http://www.sun.com.
   - software copyright (c) 2003, IBM Corporation., http://www.ibm.com.
   - voluntary contributions made by Ovidiu Predescu (ovidiu@cup.hp.com) on behalf of the
     Apache Software Foundation and was originally developed at Hewlett Packard Company.

</pre>
```

### Apache 2.0 License
<pre>

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control,
are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made
available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications

represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative
Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement
to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to
in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

JLEX COPYRIGHT NOTICE, LICENSE AND DISCLAIMER.
Copyright 1996-2003 by Elliot Joel Berk and C. Scott Ananian
Permission to use, copy, modify, and distribute this software and
its documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both the copyright notice and this permission notice and warranty
disclaimer appear in supporting documentation, and that the name of
the authors or their employers not be used in advertising or publicity
pertaining to distribution of the software without specific, written
prior permission.
The authors and their employers disclaim all warranties with regard to
this software, including all implied warranties of merchantability
and
fitness. In no event shall the authors or their employers be liable for
any special, indirect or consequential damages or any damages whatsoever
resulting from loss of use, data or profits, whether in an action of
contract, negligence or other tortious action, arising out of or in
connection with the use or performance of this software.The portions of
JLex output which are hard-coded into the JLex source code are (naturally)
covered by this same license.

</pre>

## JRuby Joni v2.1.16

### MIT License
<pre>

Copyright (c) 2017 JRuby Team

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING
 FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

</pre>
## GIFLIB v5.2.1

### GIFLIB License
```

The GIFLIB distribution is Copyright (c) 1997  Eric S. Raymond

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
```

LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

https://sourceforge.net/p/giflib/code/ci/master/tree/openbsd-reallocarray.c

Copyright (c) 2008 Otto Moerbeek <otto@drijf.net>
SPDX-License-Identifier: MIT
## CUP Parser Generator for Java v 0.11b

### CUP Parser Generator License

```
Copyright 1996-2015 by Scott Hudson, Frank Flannery, C. Scott Ananian, Michael Petter

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted, provided
that the above copyright notice appear in all copies and that both
the copyright notice and this permission notice and warranty disclaimer
appear in supporting documentation, and that the names of the authors or
their employers not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior permission.

The authors and their employers disclaim all warranties with regard to
this software, including all implied warranties of merchantability and
fitness. In no event shall the authors or their employers be liable for
any special, indirect or consequential damages or any damages whatsoever
resulting from loss of use, data or profits, whether
 in an action of
contract, negligence or other tortious action, arising out of or in
connection with the use or performance of this software.
```
---
```
This is an open source license. It is also GPL-Compatible (see entry for
"Standard ML of New Jersey"). The portions of CUP output which are hard-coded
into the CUP source code are (naturally) covered by this same license, as is
the CUP runtime code linked with the generated parser.
```

All images in this directory are copyright 1995 by Jeff Dinkins.
Unauthorized reproduction is prohibited.

For more information about Jeff's photographs, please see:
    http://www.theFixx.org/Jeff

The GNU General Public License (GPL)

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that
you have the freedom to
distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also,
for each author's protection and ours, we want to make certain that
everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced

by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically

performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by

third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you,
then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make
thoroughly clear what is believed to be a
consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later

version", you have the option of following the
terms and conditions either of
that version or of any later version published by the Free Software Foundation.
If the Program does not specify a version number of this License, you may
choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs
whose distribution conditions are different, write to the author to ask for
permission. For software which is copyrighted by the Free Software Foundation,
write to the Free Software Foundation; we sometimes make exceptions for this.
Our decision will be guided by the two goals of preserving the free status of
all derivatives of our free software and of promoting the sharing and reuse of
software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR
THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE
STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE
PROGRAM "AS IS"
WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND
PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE,
YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL
ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE
THE
PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR
INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA
BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER
OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How
to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible
use to the public, the best way to achieve this is to make it free software
which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach
them to the start of each source file to most effectively convey the exclusion
of warranty; and each file should have at least the "copyright" line and a

pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.

Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License as published by the Free
Software Foundation; either version 2 of the License, or (at your option)
any later version.

This program is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for
more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it
starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author Gnomovision comes
with ABSOLUTELY NO WARRANTY; for details type 'show w'. This is free
software, and you are welcome to redistribute it under certain conditions;
type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may be
called something
other than 'show w' and 'show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school,
if any, to sign a "copyright disclaimer" for the program, if necessary. Here
is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into

proprietary programs.  If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library.  If this is what you want to do, use the GNU Library General Public
License instead of this License.

"CLASSPATH" EXCEPTION TO THE GPL

Certain source files distributed by Oracle America and/or its affiliates are
subject to the following
 clarification and special exception to the GPL, but
only where Oracle has expressly included in the particular source file's header
the words "Oracle designates this particular file as subject to the "Classpath"
exception as provided by Oracle in the LICENSE file that accompanied this code."

  Linking this library statically or dynamically with other modules is making
  a combined work based on this library.  Thus, the terms and conditions of
  the GNU General Public License cover the whole combination.

  As a special exception, the copyright holders of this library give you
  permission to link this library with independent modules to produce an
  executable, regardless of the license terms of these independent modules,
  and to copy and distribute the resulting executable under terms of your
  choice, provided that you also meet, for each linked independent module,
  the terms and conditions of the license of that module.  An independent
  module is a module
 which is not derived from or based on this library.  If
  you modify this library, you may extend this exception to your version of
  the library, but you are not obligated to do so.  If you do not wish to do
  so, delete this exception statement from your version.
## jQuery UI v1.13.2

### jQuery UI License
```
Copyright jQuery Foundation and other contributors, https://jquery.org/

This software consists of voluntary contributions made by many
individuals. For exact contribution history, see the revision history
available at https://github.com/jquery/jquery-ui

The following license applies to all parts of this software except as
documented below:

====

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
```

without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT
 WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====

Copyright and related rights for sample code are waived via CC0. Sample
code is defined as all source code contained within the demos directory.

CC0: http://creativecommons.org/publicdomain/zero/1.0/

====

All files located in the node_modules and external directories are
externally maintained libraries used by this software which have their
own licenses; we recommend you read them, as their terms may differ from
the terms above.

```
## Unicode Common Local Data Repository (CLDR) v33

### CLDR License

```

UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE
Unicode Data Files include all data files under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/,
http://source.icu-project.org/repos/icu/, and
http://www.unicode.org/utility/trac/browser/.

Unicode Data Files do not include PDF online code charts under the
directory http://www.unicode.org/Public/.

Software includes any source code published in the Unicode Standard
or under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/,
http://source.icu-project.org/repos/icu/, and
http://www.unicode.org/utility/trac/browser/.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT,
AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright  1991-2018 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission
notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,

use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.

```
## Dynalink v.5

### Dynalink License
<pre>

Copyright (c) 2009-2013, Attila Szegedi

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
* Redistributions of source code must retain the above copyright
 notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
* Neither the name of the copyright holder nor the names of
 contributors may be used to endorse or promote products derived from
 this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN
 NO EVENT SHALL COPYRIGHT HOLDER
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

</pre>
## Harfbuzz v7.2.0

### Harfbuzz License

https://github.com/harfbuzz/harfbuzz/blob/7.2.0/COPYING

<pre>

HarfBuzz is licensed under the so-called "Old MIT" license.  Details follow.
For parts of HarfBuzz that are licensed under different licenses see individual
files names COPYING in subdirectories where applicable.
```

Copyright  2010-2023  Google, Inc.
Copyright  2018-2020  Ebrahim Byagowi
Copyright  2004-2013  Red Hat, Inc.
Copyright  2019  Facebook, Inc.
Copyright  2007  Chris Wilson
Copyright  2018-2019 Adobe Inc.
Copyright  2006-2023 Behdad Esfahbod
Copyright  1998-2004  David Turner and Werner Lemberg
Copyright  2009  Keith Stribley
Copyright  2018  Khaled Hosny
Copyright  2016  Elie Roux <elie.roux@telecom-bretagne.eu>
Copyright  2016  Igalia S.L.
Copyright  2015  Mozilla Foundation.
Copyright  1999  David Turner
Copyright  2005  Werner Lemberg
Copyright  2013-2015  Alexei Podtelezhnikov
Copyright  2022 Matthias Clasen
Copyright  2011  Codethink Limited

For full copyright notices
 consult the individual files in the package.

Permission is hereby granted, without written agreement and without
license or royalty fees, to use, copy, modify, and distribute this
software and its documentation for any purpose, provided that the
above copyright notice and the following two paragraphs appear in
all copies of this software.

IN NO EVENT SHALL THE COPYRIGHT HOLDER BE LIABLE TO ANY PARTY FOR
DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE AND ITS DOCUMENTATION, EVEN
IF THE COPYRIGHT HOLDER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

THE COPYRIGHT HOLDER SPECIFICALLY DISCLAIMS ANY WARRANTIES, INCLUDING,
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE.  THE SOFTWARE PROVIDED HEREUNDER IS
ON AN "AS IS" BASIS, AND THE COPYRIGHT HOLDER HAS NO OBLIGATION TO
PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

All source code, except for one section,
 is licensed as above. The one
exception is licensed with a slightly different MIT variant:
The contents of this directory are licensed under the following terms:

---

The below license applies to the following files:
libharfbuzz/hb-ucd.cc

Copyright (C) 2012 Grigori Goronzy <greg@kinoho.net>

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE
OF THIS SOFTWARE.

</pre>

### AUTHORS File Information
```

Behdad Esfahbod
David Corbett
David Turner
Ebrahim Byagowi
Garret Rieger
Jonathan Kew
Khaled Hosny
Lars Knoll
Martin Hosken
Owen Taylor
Roderick Sheeter
Roozbeh Pournader
Simon Hausmann
Werner Lemberg

```
## JLine v3.22.0

### JLine License
<pre>

Copyright (c) 2002-2018, the original author or authors.
All rights reserved.

https://opensource.org/licenses/BSD-3-Clause

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the following
conditions are met:

Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with
the distribution.

Neither the name of JLine nor the names of its contributors
may be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING,
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.

4th Party Dependency
==========
org.fusesource.jansi version 2.4.0
org.apache.sshd 2.9.2
org.apache.felix.gogo.runtime 1.1.6
org.apache.felix.gogo.jline 1.1.8
==========
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions
for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and
configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative
Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"

means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean
Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry
prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works,
if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the
Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

==========

juniversalchardet

The library is subject to the Mozilla Public License Version 1.1.

Alternatively,
the library may be used under the terms of either the GNU General Public License Version 2 or later, or the GNU Lesser General Public License 2.1 or later.

==========

slf4j

SLF4J source code and binaries are distributed under the MIT license.

Copyright (c) 2004-2023 QOS.ch
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO
THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION

WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

These terms are identical to those of the MIT License, also called the X License
or the X11 License, which is a simple, permissive non-copyleft free software license.
It is deemed compatible with virtually all types of licenses, commercial or otherwise.
In particular, the Free Software Foundation has declared it compatible with GNU GPL.
It is also known to be approved by the Apache Software Foundation as compatible with
Apache Software License.

</pre>
The copyrights in this software and any visual or audio work distributed with
the software belong to Azul Systems, Inc. and those included in all other notice
files either listed in the readme file or contained in any other included notice
files with this distribution. All rights are reserved. Installation of this
software and any Azul software bundled with or derived from this software is
licensed only in accordance with these terms.

Provided you have not received the software directly from Azul and have already
agreed to the terms of a separate license agreement, by installing, using or
distributing this software you, on your own behalf and on behalf of your
employer or principal, agree to be bound by these terms. If you do not agree to
any of these terms, you may not use, copy, transmit, distribute nor install this
software.

The software is developed and owned by Azul and/or any of its affiliates,
subsidiaries or respective suppliers and licensors. The software also includes
certain
software components and materials ("Open Source Materials") of third
parties ("Third Party Licensors") licensed under certain licenses ("Open Source
Licenses").

Nothing in this Agreement limits your rights under, or grants you rights that
supersede the terms and conditions of any applicable Open Source Licenses.
You must review the Open Source Licenses located at
http://www.azulsystems.com/license/zulu_third_party_licenses.html
to understand your rights under them. In the event that no such third party
license agreements exist, the restrictions contained in this Agreement shall
apply.

With respect to the Open Source Licenses the following shall apply:

1) You hereby acknowledge and agree that you will be licensing any Open Source
Materials directly from the applicable Third Party Licensors including the
right to use such Third Party Materials in connection with the software

2) In the event of any inconsistencies or conflicting provisions of the Open
Source Licenses and the

provisions of this Agreement, the provisions of the
Open Source Licenses shall prevail.

THIS SOFTWARE IS PROVIDED BY AZUL "AS-IS" AND WITHOUT EXPRESS OR IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL AZUL BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY OR CONSEQUENTIAL DAMAGES (INCLUDING BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICE, LOSS OF USE, DATA OR PROFITS; OR BUSINESS INTERRUPTION, HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY WHETHER IN CONTRACT, STRICT LIABILITY OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
## Mesa 3-D Graphics Library v21.0.3

### Mesa License

```
Copyright (C) 1999-2007  Brian Paul   All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN
 ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

Attention, Contributors

When contributing to the Mesa project you must agree to the licensing terms
of the component to which you're contributing.
The following section lists the primary components of the Mesa distribution
and their respective licenses.
Mesa Component Licenses
```

Component Location License

---

Main Mesa code src/mesa/ MIT
Device drivers src/mesa/drivers/* MIT, generally

Gallium code src/gallium/ MIT

Ext headers GL/glext.h Khronos
GL/glxext.h Khronos
GL/wglext.h Khronos
KHR/khrplatform.h Khronos

**********

---
include/GL/gl.h :

Mesa 3-D
graphics library

Copyright (C) 1999-2006 Brian Paul All Rights Reserved.
Copyright (C) 2009 VMware, Inc. All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

**********

---
include/GL/glext.h
include/GL/glxext.h
include/GL/wglxext.h :

Copyright (c) 2013 - 2018 The Khronos Group Inc.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and/or associated documentation files (the
"Materials"), to deal in the Materials without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Materials, and to
permit persons to whom the Materials are furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Materials.

THE MATERIALS ARE PROVIDED "AS IS", WITHOUT
WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
MATERIALS OR THE USE OR OTHER DEALINGS IN THE MATERIALS.

**********

---
include/KHR/khrplatform.h :

Copyright (c) 2008 - 2018 The Khronos Group Inc.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and/or associated documentation files (the
"Materials"), to deal in the Materials without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Materials, and to
permit persons to whom the Materials are furnished to do
so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Materials.

THE MATERIALS ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,

TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
MATERIALS OR THE USE OR OTHER DEALINGS IN THE MATERIALS.

**********

```
## ASM Bytecode Manipulation Framework v6.0

### ASM License
<pre>

Copyright (c) 2000-2011 France Tlcom
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY
 AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

</pre>
```

# 1.54 openjdk 11.0.21

## 1.54.1 Available under license :

## Little Color Management System (LCMS) v2.15

### LCMS License

<pre>

README.1ST file information

LittleCMS core is released under MIT License

---

Little CMS
Copyright (c) 1998-2023 Marti Maria Saguer

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject
to the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN
NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

---

The below license applies to the following files:
liblcms/cmssm.c

Copyright 2001, softSurfer (www.softsurfer.com)

This code may be freely used and modified for any purpose
providing that this copyright notice is included with it.
SoftSurfer makes no warranty for this code, and cannot be held
liable for any real or imagined damage resulting from its use.
Users of this code must verify correctness for their application.

</pre>

### AUTHORS File Information
```

Main Author
---
Marti Maria

Contributors
---
Bob Friesenhahn
Kai-Uwe Behrmann
Stuart Nixon
Jordi Vilar
Richard Hughes
Auke Nauta
Chris Evans (Google)
Lorenzo Ridolfi
Robin Watts (Artifex)
Shawn Pedersen
Andrew Brygin
Samuli
 Suominen
Florian Hch
Aurelien Jarno
Claudiu Cebuc
Michael Vhrel (Artifex)
Michal Cihar
Daniel Kaneider
Mateusz Jurczyk (Google)
Paul Miller
Sbastien Lon
Christian Schmitz
XhmikosR
Stanislav Brabec (SuSe)
Leonhard Gruenschloss (Google)
Patrick Noffke
Christopher James Halse Rogers
John Hein
Thomas Weber (Debian)
Mark Allen
Noel Carboni
Sergei Trofimovic
Philipp Knechtges
Amyspark
Lovell Fuller
Eli Schwartz
```

Special Thanks
---
Artifex software
AlienSkin software
libVIPS
Jan Morovic
Jos Vernon (WebSupergoo)
Harald Schneider (Maxon)
Christian Albrecht
Dimitrios Anastassakis
Lemke Software
Tim Zaman

```
## The FreeType Project: Freetype v2.13.2


### FreeType Notice

```
FreeType comes with two licenses from which you can choose the one
which fits your needs best.

  The FreeType License (FTL) is the most commonly used one. It is
  a BSD-style license with a credit clause and thus compatible with
  the GNU Public License (GPL) version 3, but not with the
  GPL version 2.

  The GNU General Public License (GPL), version 2. Use it for all
  projects which use the GPLv2 also, or which need a license
  compatible to the GPLv2.

```

### FreeType License
```

Copyright (C) 1996-2023 by David Turner, Robert Wilhelm, and Werner Lemberg.
Copyright (C) 2007-2023 by Dereg Clegg and Michael Toftdal.
Copyright (C) 1996-2023 by Just van Rossum, David Turner, Robert Wilhelm, and Werner Lemberg.
Copyright (C) 2022-2023 by David Turner, Robert Wilhelm, Werner Lemberg, George Williams, and
Copyright (C) 2004-2023 by Masatake YAMATO and Redhat K.K.
Copyright (C) 2007-2023 by Derek Clegg and
 Michael Toftdal.
Copyright (C) 2003-2023 by Masatake YAMATO, Red Hat K.K.,
Copyright (C) 1996-2023 by David Turner, Robert Wilhelm, Werner Lemberg, and Dominik Rttsches.
Copyright (C) 2007-2023 by David Turner.

Copyright (C) 2022-2023 by David Turner, Robert Wilhelm, Werner Lemberg, and Moazin Khatti.
Copyright (C) 2007-2023 by Rahul Bhalerao <rahul.bhalerao@redhat.com>, <b.rahul.pm@gmail.com>.
Copyright (C) 2008-2023 by David Turner, Robert Wilhelm, Werner Lemberg, and suzuki toshiya.
Copyright (C) 2013-2023 by Google, Inc.
Copyright (C) 2019-2023 by Nikhil Ramakrishnan, David Turner, Robert Wilhelm, and Werner Lemberg.
Copyright (C) 2009-2023 by Oran Agra and Mickey Gabel.
Copyright (C) 2018-2023 by David Turner, Robert Wilhelm, Dominik Rttsches, and Werner Lemberg.
Copyright (C) 2004-2023 by David Turner, Robert Wilhelm, Werner Lemberg, and George Williams.

The FreeType Project LICENSE
---

2006-Jan-27

Copyright 1996-2002, 2006 by
David Turner, Robert Wilhelm, and Werner Lemberg

Introduction
==========

The FreeType Project is distributed in several archive packages; some of them may contain, in addition to the FreeType font engine, various tools and contributions which rely on, or relate to, the FreeType Project.

This license applies to all files found in such packages, and which do not fall under their own explicit license. The license affects thus the FreeType font engine, the test programs, documentation and makefiles, at the very least.

This license was inspired by the BSD, Artistic, and IJG (Independent JPEG Group) licenses, which all encourage inclusion and use of free software in commercial and freeware products alike. As a consequence, its main points are that:

- We don't promise that this software works. However, we will be interested in any kind of bug reports. (`as is' distribution)

- You can use this software for whatever you want, in parts or full form, without having to pay us. (`royalty-free' usage)

- You may not pretend that you wrote this software. If you use it, or only parts of it, in a program, you must acknowledge

somewhere in your documentation that you have used the FreeType code. (`credits')

We specifically permit and encourage the inclusion of this software, with or without modifications, in commercial products. We disclaim all warranties covering The FreeType Project and assume no liability related to The FreeType Project.

Finally, many people asked us for a preferred form for a credit/disclaimer to use in compliance with this license. We thus encourage you to use the following text:

```
"""
  Portions of this software are copyright <year> The FreeType
  Project (www.freetype.org).  All rights reserved.
"""
```

Please replace <year> with the value from the FreeType version you actually use.

Legal Terms
==========

0. Definitions
---

Throughout this license, the terms `package', `FreeType Project', and `FreeType archive' refer to the set of files originally distributed by the authors (David Turner, Robert Wilhelm, and Werner Lemberg) as the `FreeType Project', be they named as alpha, beta or final release.

`You' refers to the licensee, or person using the project, where `using' is a generic term including compiling the project's source code as well as linking it to form a `program' or `executable'. This program is referred to as `a program using the FreeType engine'.

This license applies to all files distributed in the original FreeType Project, including all source code, binaries and documentation, unless otherwise stated in the file in its original, unmodified form as distributed in the original archive. If you are unsure whether or not a particular file is covered by this license, you must contact us to verify this.

The FreeType Project is copyright (C) 1996-2000 by David Turner, Robert Wilhelm, and Werner Lemberg. All rights reserved except as specified below.

1. No Warranty
---

THE FREETYPE PROJECT IS PROVIDED `AS IS' WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL ANY OF THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY DAMAGES CAUSED BY THE USE OR THE INABILITY TO USE, OF THE FREETYPE PROJECT.

2. Redistribution
---

This license grants a worldwide, royalty-free, perpetual and irrevocable right and license to use, execute, perform, compile, display, copy, create derivative works of, distribute and sublicense the FreeType Project (in both source and object code
forms) and derivative works thereof for any purpose; and to authorize others to exercise some or all of the rights granted herein, subject to the following conditions:

- Redistribution of source code must retain this license file (`FTL.TXT') unaltered; any additions, deletions or changes to the original files must be clearly indicated in accompanying documentation. The copyright notices of the unaltered, original files must be preserved in all copies of source files.

- Redistribution in binary form must provide a disclaimer that states that the software is based in part of the work of the FreeType Team, in the distribution documentation. We also encourage you to put an URL to the FreeType web page in your documentation, though this isn't mandatory.

These conditions apply to any software derived from or based on the FreeType Project, not just the unmodified files. If you use
our work, you must acknowledge us. However, no fee need be paid to us.

3. Advertising
---

Neither the FreeType authors and contributors nor you shall use the name of the other for commercial, advertising, or promotional purposes without specific prior written permission.

We suggest, but do not require, that you use one or more of the following phrases to refer to this software in your documentation or advertising materials: `FreeType Project', `FreeType Engine', `FreeType library', or `FreeType Distribution'.

As you have not signed this license, you are not required to accept it. However, as the FreeType Project is copyrighted material, only this license, or another one contracted with the authors, grants you the right to use, distribute, and modify it. Therefore, by using, distributing, or modifying the FreeType Project, you indicate that you understand and accept all the terms of this
license.

4. Contacts
---

There are two mailing lists related to FreeType:

o freetype@nongnu.org

Discusses general use and applications of FreeType, as well as future and wanted additions to the library and distribution. If you are looking for support, start in this list if you haven't found anything to help you in the documentation.

o freetype-devel@nongnu.org

Discusses bugs, as well as engine internals, design issues, specific licenses, porting, etc.

Our home page can be found at

https://www.freetype.org

```

### GPL v2

```
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
```
```

51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom
to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you
these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors'
reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices

stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement
including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany
it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation
of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License
will not have their licenses terminated so long as such
parties remain in full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying

the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may

add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

10. If you wish to incorporate
parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE
DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE

POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be

mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program,
 if
necessary.  Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the program
 `Gnomovision' (which makes passes at compilers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs.  If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library.  If this is what you want to do, use the GNU Library General
Public License instead of this License.

```

### Additional Freetype Attributions
```

---
The below license applies to the following files:
libfreetype/src/psaux/psarrst.c
libfreetype/src/psaux/psarrst.h
libfreetype/src/psaux/psblues.c
libfreetype/src/psaux/psblues.h
libfreetype/src/psaux/pserror.c
libfreetype/src/psaux/pserror.h
libfreetype/src/psaux/psfixed.h
libfreetype/src/psaux/psfont.c
libfreetype/src/psaux/psfont.h
libfreetype/src/psaux/psft.c
libfreetype/src/psaux/psft.h
libfreetype/src/psaux/psglue.h
libfreetype/src/psaux/pshints.c
libfreetype/src/psaux/pshints.h
libfreetype/src/psaux/psintrp.c
libfreetype/src/psaux/psintrp.h
libfreetype/src/psaux/psread.c
libfreetype/src/psaux/psread.h
libfreetype/src/psaux/psstack.c
libfreetype/src/psaux/psstack.h
libfreetype/src/psaux/pstypes.h

Copyright
2006-2014 Adobe Systems Incorporated.

This software, and all works of authorship, whether in source or
object code form as indicated by the copyright notice(s) included
herein (collectively, the "Work") is made available, and may only be
used, modified, and distributed under the FreeType Project License,
LICENSE.TXT.  Additionally, subject to the terms and conditions of the
FreeType Project License, each contributor to the Work hereby grants
to any individual or legal entity exercising permissions granted by
the FreeType Project License and this section (hereafter, "You" or
"Your") a
perpetual, worldwide, non-exclusive, no-charge,
royalty-free, irrevocable (except as stated in this section) patent
license to make, have made, use, offer to sell, sell, import, and
otherwise transfer the Work, where such license applies only to those
patent claims licensable by such contributor that are necessarily
infringed by their contribution(s) alone or by combination of their
contribution(s) with the Work to which such contribution(s) was
submitted.  If You institute patent litigation against any entity
(including a cross-claim or counterclaim in a lawsuit) alleging that
the Work or a contribution incorporated within the Work constitutes
direct or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate as of
the date such litigation is filed.

By using, modifying, or distributing the Work you indicate that you
have read and understood the terms and conditions of the
FreeType Project License as well as those provided
in this section,
and you accept them fully.

```

### MIT License
```

---
The below license applies to the following files:
libfreetype/include/freetype/internal/fthash.h
libfreetype/src/base/fthash.c

Copyright 2000 Computing Research Labs, New Mexico State University
Copyright 2001-2015

Francesco Zappa Nardelli

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED,
 INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL
THE COMPUTING RESEARCH LAB OR NEW MEXICO STATE UNIVERSITY BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT
OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR
THE USE OR OTHER DEALINGS IN THE SOFTWARE.

```
## xwd v1.0.7

### xwd utility
<pre>

This is the copyright for the files in src/java.desktop/unix/native/libawt_xawt:
list.h, multiVis.h, wsutils.h, list.c, multiVis.c

Copyright 1994 Hewlett-Packard Co.
Copyright 1996, 1998  The Open Group

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation.

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING
```

FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall
not be used in advertising or otherwise to promote the sale, use or
other dealings in this Software without prior written authorization
from The Open Group.

</pre>
This is the copyright file
## JLine v3.22.0

### JLine License
<pre>

Copyright (c) 2002-2018, the original author or authors.
All rights reserved.

https://opensource.org/licenses/BSD-3-Clause

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the following
conditions are met:

Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with
the distribution.

Neither the name of JLine nor the names of its contributors
may be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING,
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING

IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.

</pre>
jpackage test license file (just some sample text).
## Thai Dictionary

### Thai Dictionary License
<pre>

Copyright (C) 1982 The Royal Institute, Thai Royal Government.

Copyright (C) 1998 National Electronics and Computer Technology Center,
National Science and Technology Development Agency,
Ministry of Science Technology and Environment,
Thai Royal Government.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
 OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

</pre>
## PipeWire 0.3.68

### PipeWire license:

All PipeWire header files are licensed under the MIT License:

<pre>
Copyright  2018-2023 Wim Taymans

Permission is hereby granted, free of charge, to any person obtaining a

copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice (including the next
paragraph) shall be included in all copies or substantial portions of the
Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE
 FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.
</pre>

The below copyright applies to the following files:

spa/include/spa/monitor/type-info.h
```
Copyright  2021 Collabora Ltd.
```

spa/include/spa/utils/string.h
```
Copyright  2021 Red Hat, Inc.
```
## Unicode Common Local Data Repository (CLDR) v44

### CLDR License

```

UNICODE LICENSE V3

COPYRIGHT AND PERMISSION NOTICE

Copyright  2019-2023 Unicode, Inc.

NOTICE TO USER: Carefully read the following legal agreement. BY
DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING DATA FILES, AND/OR
SOFTWARE, YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT. IF YOU DO NOT AGREE, DO NOT
DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE THE DATA FILES OR SOFTWARE.
```

Permission is hereby granted, free of charge, to any person obtaining a
copy of data files and any associated documentation (the "Data Files") or
software and any associated documentation (the "Software") to deal in the
Data Files or Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, and/or sell
copies of the Data Files or Software, and to permit persons to whom the
Data Files or Software are furnished to do so, provided
that either (a)
this copyright and permission notice appear with all copies of the Data
Files or Software, or (b) this copyright and permission notice appear in
associated Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS.

IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall
not be used in advertising or otherwise to promote the sale, use or other
dealings in these Data Files or Software
without prior written
authorization of the copyright holder.

```
The Universal Permissive License (UPL), Version 1.0

Subject to the condition set forth below, permission is hereby granted to
any person obtaining a copy of this software, associated documentation
and/or data (collectively the "Software"), free of charge and under any
and all copyright rights in the Software, and any and all patent rights
owned or freely licensable by each licensor hereunder covering either (i)
the unmodified Software as contributed to or provided by such licensor,
or (ii) the Larger Works (as defined below), to deal in both

(a) the Software, and

(b) any piece of software and/or hardware listed in the lrgrwrks.txt file
if one is included with the Software (each a "Larger Work" to which the
Software is contributed by such licensors),
```

without restriction, including without limitation the rights to copy,
create derivative works of, display, perform, and distribute the Software
and make, use, sell, offer for sale, import, export, have made, and have
sold the Software and
the Larger Work(s), and to sublicense the foregoing
rights on either these or other terms.

This license is subject to the following condition:

The above copyright notice and either this complete permission notice or
at a minimum a reference to the UPL must be included in all copies or
substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN
NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE
USE OR OTHER DEALINGS IN THE SOFTWARE.
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/

Files: *
Copyright: APPLICATION_COPYRIGHT
License: APPLICATION_LICENSE_TEXT
## Apache Santuario v3.0.2

### Apache 2.0 License
```

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
```

direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the
following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed

as part of the Derivative Works; within
the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of
Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including,
without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be

liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

```

### Apache Santuario Notice
```

Apache Santuario - XML Security for Java
Copyright 1999-2023
The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

It was originally based on software copyright (c) 2001, Institute for
Data Communications Systems, <http://www.nue.et-inf.uni-siegen.de/>.

The development of this software was partly funded by the European
Commission in the <WebSig> project in the ISIS Programme.

This product contains software that is
copyright (c) 2021, Oracle and/or its affiliates.
```

ADDITIONAL INFORMATION ABOUT LICENSING

Certain files distributed by Oracle America, Inc. and/or its affiliates are
subject to the following clarification and special exception to the GPLv2,
based on the GNU Project exception for its Classpath libraries, known as the
GNU Classpath Exception.

Note that Oracle includes multiple, independent programs in this software
package. Some of those programs are provided under licenses deemed
incompatible with the GPLv2 by the Free Software Foundation and others.
For example, the package includes programs licensed under the Apache
License, Version 2.0 and may include FreeType. Such programs are licensed
to you under their original licenses.

Oracle facilitates your further distribution of this package by adding the
Classpath Exception to the necessary parts of its GPLv2 code, which permits
you to use that code in combination with other independent modules not
licensed under the GPLv2. However, note that this would
not permit you to
commingle code under an incompatible license with Oracle's GPLv2 licensed
code by, for example, cutting and pasting such code into a file also
containing Oracle's GPLv2 licensed code and then distributing the result.

Additionally, if you were to remove the Classpath Exception from any of the
files to which it applies and distribute the result, you would likely be
required to license some or all of the other code in that distribution under
the GPLv2 as well, and since the GPLv2 is incompatible with the license terms
```

of some items included in the distribution by Oracle, removing the Classpath Exception could therefore effectively compromise your ability to further distribute the package.

Failing to distribute notices associated with some files may also create unexpected legal consequences.

Proceed with caution and we recommend that you obtain the advice of a lawyer skilled in open source matters before removing the Classpath Exception or making modifications
to this package which may subsequently be redistributed and/or involve the use of third party software.
## OASIS PKCS #11 Cryptographic Token Interface v3.0

### OASIS PKCS #11 Cryptographic Token Interface License
<pre>

Copyright  OASIS Open 2020. All Rights Reserved.

All capitalized terms in the following text have the meanings assigned to them in the OASIS Intellectual Property Rights Policy (the "OASIS IPR Policy"). The full Policy may be found at the OASIS website: [http://www.oasis-open.org/policies-guidelines/ipr]

This document and translations of it may be copied and furnished to others, and derivative works that comment on or otherwise explain it or assist in its implementation may be prepared, copied, published, and distributed, in whole or in part, without restriction of any kind, provided that the above copyright notice and this section are included on all such copies and derivative works. However, this document itself may not be modified in any way, including by removing the copyright notice or references to OASIS, except as needed for the purpose of developing any
document or deliverable produced by an OASIS Technical Committee (in which case the rules applicable to copyrights, as set forth in the OASIS IPR Policy, must be followed) or as required to translate it into languages other than English.

The limited permissions granted above are perpetual and will not be revoked by OASIS or its successors or assigns.

This document and the information contained herein is provided on an "AS IS" basis and OASIS DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY THAT THE USE OF THE INFORMATION HEREIN WILL NOT INFRINGE ANY OWNERSHIP RIGHTS OR ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. OASIS AND ITS MEMBERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THIS DOCUMENT OR ANY

PART THEREOF.

[OASIS requests that any OASIS Party or any other party that believes it has patent claims that would necessarily be infringed by implementations
of this OASIS Standards Final Deliverable, to notify
OASIS TC Administrator and provide an indication of its willingness to grant patent licenses to such patent claims in a manner consistent with the IPR Mode of the OASIS Technical Committee that produced this deliverable.]

[OASIS invites any party to contact the OASIS TC Administrator if it is aware of a claim of ownership of any patent claims that would necessarily be infringed by implementations of this OASIS Standards Final Deliverable by a patent holder that is not willing to provide a license to such patent claims in a manner consistent with the IPR Mode of the OASIS Technical Committee that produced this OASIS Standards Final Deliverable. OASIS may include such claims on its website, but disclaims any obligation to do so.]

[OASIS takes no position regarding the validity or scope of any intellectual property or other rights that might be claimed to pertain to the implementation or use of the technology
described in this OASIS
Standards Final Deliverable or the extent to which any license under such rights might or might not be available; neither does it represent that it has made any effort to identify any such rights. Information on OASIS' procedures with respect to rights in any document or deliverable produced by an OASIS Technical Committee can be found on the OASIS website. Copies of claims of rights made available for publication and any assurances of licenses to be made available, or the result of an attempt made to obtain a general license or permission for the use of such proprietary rights by implementers or users of this OASIS Standards Final Deliverable, can be obtained from the OASIS TC Administrator. OASIS makes no representation that any information or list of intellectual property rights will at any time be complete, or that any claims in such list are, in fact, Essential Claims.]

</pre>
## Cryptix AES v3.2.0

### Cryptix General License
<pre>

Cryptix General License

Copyright (c) 1995-2005 The Cryptix Foundation Limited.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1. Redistributions of source code must retain the copyright notice,
   this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in
   the documentation and/or other materials provided with the
   distribution.

THIS SOFTWARE IS PROVIDED BY THE CRYPTIX FOUNDATION LIMITED AND
CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE CRYPTIX FOUNDATION LIMITED OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT,
 INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN
IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

</pre>
## ASM Bytecode Manipulation Framework v9.3

### ASM License
<pre>

Copyright (c) 2000-2011 France Tlcom
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holders nor the names of its

contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

</pre>
UNICODE LICENSE V3

COPYRIGHT AND PERMISSION NOTICE

Copyright  2019-2023 Unicode, Inc.

NOTICE TO USER: Carefully read the following legal agreement. BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING DATA FILES, AND/OR SOFTWARE, YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE TERMS AND CONDITIONS OF THIS AGREEMENT. IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE THE DATA FILES OR SOFTWARE.

Permission is hereby granted, free of charge, to any person obtaining a
copy of data files and any associated documentation (the "Data Files") or
software and any associated documentation (the "Software") to deal in the
Data Files or Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, and/or sell
copies of the Data Files or Software, and to permit persons to whom the
Data Files or Software are furnished to do so, provided that either (a)
this copyright and permission notice appear with all
copies of the Data
Files or Software, or (b) this copyright and permission notice appear in
associated Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS.

IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES,

OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall
not be used in advertising or otherwise to promote the sale, use or other
dealings in these Data Files or Software without prior written
authorization of the copyright holder.
## Independent JPEG Group: JPEG release 6b

### JPEG License

```
**********************************************************************
```

Copyright (C) 1991-1998, Thomas G. Lane.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher,
Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi,
Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG
Group.

IJG is not affiliated with the official ISO JPEG standards committee.

The authors make NO WARRANTY or representation, either express or implied,
with respect to this software, its quality, accuracy, merchantability, or
fitness for a particular purpose.  This software is provided "AS IS",
and you, its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-1998, Thomas G. Lane.
All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute
this software (or portions thereof) for any purpose,
 without fee,
subject to these conditions:

(1) If any part of the source code for this software is distributed,
then this README file must be included, with this copyright and no-warranty
notice unaltered; and any additions, deletions, or changes to the original
files must be clearly indicated in accompanying documentation.

(2) If only executable code is distributed, then the accompanying documentation
must state that "this software is based in part on the work of the
Independent JPEG Group".

(3) Permission for use of this software is granted only if the user accepts

full responsibility for any undesirable consequences; the authors accept
NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code,
not just to the unmodified library.  If you use our work, you ought to
acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name
in advertising or publicity relating to this software or products
 derived
from it.  This software may be referred to only as "the Independent JPEG
Group's software".

We specifically permit and encourage the use of this software as the basis
of commercial products, provided that all warranty or liability claims are
assumed by the product vendor.

It appears that the arithmetic coding option of the JPEG spec is covered
by patents owned by IBM, AT&T, and Mitsubishi.  Hence arithmetic coding
cannot legally be used without obtaining one or more licenses.  For this
reason, support for arithmetic coding has been removed from the free
JPEG software. (Since arithmetic coding provides only a marginal gain
over the unpatented Huffman mode, it is unlikely that very many
implementations will support it.) So far as we are aware, there are
no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support
has been removed altogether, and the GIF
 writer has been simplified to
produce "uncompressed GIFs".  This technique does not use the LZW algorithm;
the resulting GIF files are larger than usual, but are readable by all
standard GIF decoders.

We are required to state that "The Graphics Interchange Format(c) is
the Copyright property of CompuServe Incorporated.  GIF(sm) is a
Service Mark property of CompuServe Incorporated."

**********
```

All images in this directory are copyright 1995 by Jeff Dinkins.
## GIFLIB v5.2.1

### GIFLIB License
```

The GIFLIB distribution is Copyright (c) 1997  Eric S. Raymond

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
 TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

https://sourceforge.net/p/giflib/code/ci/master/tree/openbsd-reallocarray.c

Copyright (c) 2008 Otto Moerbeek <otto@drijf.net>
SPDX-License-Identifier: MIT

All images in this directory are copyright 1995 by Jeff Dinkins.
Unauthorized reproduction is prohibited.

For more information about Jeff's photographs, please see:
    http://www.theFixx.org/Jeff
## Mozilla Public Suffix List

### Public Suffix Notice
```
You are receiving a copy of the Mozilla Public Suffix List in the following
file: <java-home>/lib/security/public_suffix_list.dat. The terms of the
Oracle license do NOT apply to this file; it is licensed under the
Mozilla Public License 2.0, separately from the Oracle programs you receive.
If you do not wish to use the Public Suffix List, you may remove the
<java-home>/lib/security/public_suffix_list.dat file.

The Source Code of this file is available under the
Mozilla Public License, v. 2.0 and is located at
https://raw.githubusercontent.com/publicsuffix/list/88467c960d6cdad2ca1623e892e5e17506bc269f/public_suffix_list.dat.
If a copy of the MPL was not distributed with this file, you can obtain one
at https://mozilla.org/MPL/2.0/.
```

Software distributed under the License is distributed on an "AS IS" basis,
WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License
for the specific language governing rights and limitations
 under the License.
```

### MPL v2.0
```
Mozilla Public License Version 2.0
==================================

1. Definitions
--------------

1.1. "Contributor"
  means each individual or legal entity that creates, contributes to
  the creation of, or owns Covered Software.

1.2. "Contributor Version"
  means the combination of the Contributions of others (if any) used
  by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
  means Covered Software of a particular Contributor.

1.4. "Covered Software"
  means Source Code Form to which the initial Contributor has attached
  the notice in Exhibit A, the Executable Form of such Source Code
  Form, and Modifications of such Source Code Form, in each case
  including portions thereof.

1.5. "Incompatible With Secondary Licenses"
  means

  (a) that the initial Contributor has attached the notice described
      in Exhibit B to the Covered Software; or

  (b) that the Covered
 Software was made available under the terms of
      version 1.1 or earlier of the License, but not also under the
      terms of a Secondary License.

1.6. "Executable Form"
  means any form of the work other than Source Code Form.

1.7. "Larger Work"
  means a work that combines Covered Software with other material, in
```
```

a separate file or files, that is not Covered Software.

1.8. "License"
means this document.

1.9. "Licensable"
means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. "Modifications"
means any of the following:

(a) any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

(b) any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor
means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"
means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"
means the form of the work preferred for making modifications.

1.14. "You" (or "Your")
means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions
---

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free,
non-exclusive license:

(a) under intellectual property rights (other than patent or trademark)
Licensable by such Contributor to use, reproduce, make available,
modify, display, perform, distribute, and otherwise exploit its
Contributions, either on an unmodified basis, with Modifications, or
as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer
for sale, have made, import, and otherwise transfer either its
Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution
become effective for
each Contribution on the date the Contributor first
distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
this License. No additional rights or licenses will be implied from the
distribution or licensing of Covered Software under this License.
Notwithstanding Section 2.1(b) above, no patent license is granted by a
Contributor:

(a) for any code that a Contributor has removed from Covered Software;
or

(b) for infringements caused by: (i) Your and any other third party's
modifications of Covered Software, or (ii) the combination of its
Contributions with other software (except as part of its Contributor
Version); or

(c) under Patent Claims infringed by Covered Software in the absence of
its Contributions.

This License does not grant any rights in the trademarks, service marks,
or logos of any Contributor (except as may be necessary to comply with
the notice requirements in Section 3.4).

2.4.
Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities
---

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms
of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more

than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3.
Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual
inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation
---

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to

statute, judicial order, or regulation then You must:
(a) comply with
the terms of this License to the maximum extent possible; and (b)
describe the limitations and the code they affect. Such description must
be placed in a text file included with all distributions of the Covered
Software under this License. Except to the extent prohibited by statute
or regulation, such description must be sufficiently detailed for a
recipient of ordinary skill to be able to understand it.

5. Termination
---

5.1. The rights granted under this License will terminate automatically
if You fail to comply with any of its terms. However, if You become
compliant, then the rights granted under this License from a particular
Contributor are reinstated (a) provisionally, unless and until such
Contributor explicitly and finally terminates Your grants, and (b) on an
ongoing basis, if such Contributor fails to notify You of the
non-compliance by some reasonable means prior to 60 days after You have
come back into compliance. Moreover, Your grants from a
particular
Contributor are reinstated on an ongoing basis if such Contributor
notifies You of the non-compliance by some reasonable means, this is the
first time You have received notice of non-compliance with this License
from such Contributor, and You become compliant prior to 30 days after
Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
infringement claim (excluding declaratory judgment actions,
counter-claims, and cross-claims) alleging that a Contributor Version
directly or indirectly infringes any patent, then the rights granted to
You by any and all Contributors for the Covered Software under Section
2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all
end user license agreements (excluding distributors and resellers) which
have been validly granted by You or Your distributors under this License
prior to termination shall survive termination.

**********
*
*
* 6. Disclaimer of Warranty *
* ---
*
* Covered Software is provided under this License on an "as is" *
* basis, without warranty of any kind, either expressed, implied, or *
* statutory, including, without limitation, warranties that the *

* Covered Software is free of defects, merchantable, fit for a *
* particular purpose or non-infringing. The entire risk as to the *
* quality and performance of the Covered Software is with You. *
* Should any Covered Software prove defective in any respect, You *
* (not any Contributor) assume the cost of any necessary servicing, *
* repair, or correction. This disclaimer of warranty constitutes an *
* essential
part of this License. No use of any Covered Software is *
* authorized under this License except under this disclaimer. *
* *
**********

**********
* *
* 7. Limitation of Liability *
* ---------- *
* *
* Under no circumstances and under no legal theory, whether tort *
* (including negligence), contract, or otherwise, shall any *
* Contributor, or anyone who distributes Covered Software as *
* permitted above, be liable to You for any direct, indirect, *
* special, incidental, or consequential damages of any
character *
* including, without limitation, damages for lost profits, loss of *
* goodwill, work stoppage, computer failure or malfunction, or any *
* and all other commercial damages or losses, even if such party *
* shall have been informed of the possibility of such damages. This *
* limitation of liability shall not apply to liability for death or *
* personal injury resulting from such party's negligence to the *
* extent applicable law prohibits such limitation. Some *
* jurisdictions do not allow the exclusion or limitation of *
* incidental or consequential damages, so this exclusion and *
* limitation may not apply to You. *
* *
**********

8. Litigation
---

Any litigation relating to this License may be brought only in the
courts of
a jurisdiction where the defendant maintains its principal
place of business and such litigation shall be governed by laws of that
jurisdiction, without reference to its conflict-of-law provisions.
Nothing in this Section shall prevent a party's ability to bring
cross-claims or counter-claims.

9. Miscellaneous

---

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License
---

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each
version will be given a
distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses

If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
---

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at https://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular
file, then You may include the notice in a location (such as a LICENSE
file in a relevant directory) where a recipient would be likely to look
for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice
---

This Source Code Form is "Incompatible With Secondary Licenses", as
defined by the Mozilla Public License, v. 2.0.

```
Copyright (c) 1999-2003 David Corcoran <corcoran@musclecard.com>
Copyright (c) 2001-2011 Ludovic Rousseau <ludovic.rousseau@free.fr>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
   derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN
 NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Some source code files are using other licenses. However, they are not included here and thus this file is a truncated version of the [COPYING](https://salsa.debian.org/rousseau/PCSC/-/blob/master/COPYING) file.
Copyright (c) %YEARS% Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.
## Bert Belder: wepoll v 1.5.8

### wepoll License
```
wepoll - epoll for Windows
https://github.com/piscisaureus/wepoll

Copyright 2012-2020, Bert Belder <bertbelder@gmail.com>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

 * Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR
 ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
```

THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

```
## c-libutl 20160225

### c-libutl License
```

This software is distributed under the terms of the BSD license.

== BSD LICENSE ==========

(C) 2009 by Remo Dentato (rdentato@gmail.com)

Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT
SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

http://opensource.org/licenses/bsd-license.php

```
## Apache Commons Byte Code Engineering Library (BCEL) Version 6.7.0

### Apache Commons BCEL Notice
<pre>

  Apache Commons BCEL
  Copyright 2004-2022 The Apache Software Foundation
```

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

</pre>

### Apache 2.0 License
<pre>

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity.
For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is

included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any
form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense,
and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a

cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with

the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE
file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages
of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason

of your accepting any such warranty
or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS
IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

</pre>
COPYRIGHT NOTICE, DISCLAIMER, and LICENSE
==========

PNG Reference Library License version 2
---

* Copyright (c) 1995-2023 The PNG Reference Library Authors.
* Copyright (c) 2018-2023 Cosmin Truta.
* Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson.
* Copyright (c) 1996-1997 Andreas Dilger.
* Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

The software is supplied "as is", without warranty of any kind,
express or implied, including, without limitation, the warranties
of merchantability, fitness for a particular purpose, title, and
non-infringement. In no event shall the Copyright owners, or

anyone distributing the software, be liable for any damages or
other liability, whether in contract, tort or otherwise, arising
from, out of, or in connection with the software, or the use or
other dealings in the software, even if advised of the possibility
of such damage.

Permission is hereby granted
 to use, copy, modify, and distribute
this software, or portions hereof, for any purpose, without fee,
subject to the following restrictions:

1. The origin of this software must not be misrepresented; you
   must not claim that you wrote the original software.  If you
   use this software in a product, an acknowledgment in the product
   documentation would be appreciated, but is not required.

2. Altered source versions must be plainly marked as such, and must
   not be misrepresented as being the original software.

3. This Copyright notice may not be removed or altered from any
   source or altered source distribution.

PNG Reference Library License version 1 (for libpng 0.5 through 1.6.35)
---

libpng versions 1.0.7, July 1, 2000, through 1.6.35, July 15, 2018 are
Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson, are
derived from libpng-1.0.6, and are distributed according to the same
disclaimer
 and license as libpng-1.0.6 with the following individuals
added to the list of Contributing Authors:

   Simon-Pierre Cadieux
   Eric S. Raymond
   Mans Rullgard
   Cosmin Truta
   Gilles Vollant
   James Yu
   Mandar Sahastrabuddhe
   Google Inc.
   Vadim Barkov

and with the following additions to the disclaimer:

   There is no warranty against interference with your enjoyment of
   the library or against infringement.  There is no warranty that our
   efforts or the library will fulfill any of your particular purposes

or needs.  This library is provided with all faults, and the entire
risk of satisfactory quality, performance, accuracy, and effort is
with the user.

Some files in the "contrib" directory and some configure-generated
files that are distributed with libpng have other copyright owners, and
are released under other open source licenses.

libpng versions 0.97, January 1998, through 1.0.6, March 20, 2000, are
Copyright (c) 1998-2000 Glenn Randers-Pehrson,
 are derived from
libpng-0.96, and are distributed according to the same disclaimer and
license as libpng-0.96, with the following individuals added to the
list of Contributing Authors:

Tom Lane
Glenn Randers-Pehrson
Willem van Schaik

libpng versions 0.89, June 1996, through 0.96, May 1997, are
Copyright (c) 1996-1997 Andreas Dilger, are derived from libpng-0.88,
and are distributed according to the same disclaimer and license as
libpng-0.88, with the following individuals added to the list of
Contributing Authors:

John Bowler
Kevin Bracey
Sam Bushell
Magnus Holmgren
Greg Roelofs
Tom Tanner

Some files in the "scripts" directory have other copyright owners,
but are released under this license.

libpng versions 0.5, May 1995, through 0.88, January 1996, are
Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

For the purposes of this copyright and license, "Contributing Authors"
is defined as the following set of individuals:

Andreas Dilger
Dave Martindale
Guy Eric Schalnat
Paul Schmidt
Tim Wegner

The PNG Reference Library is supplied "AS IS".  The Contributing

Authors and Group 42, Inc. disclaim all warranties, expressed or
implied, including, without limitation, the warranties of
merchantability and of fitness for any purpose.  The Contributing
Authors and Group 42, Inc. assume no liability for direct, indirect,
incidental, special, exemplary, or consequential damages, which may
result from the use of the PNG Reference Library, even if advised of
the possibility of such damage.

Permission is hereby granted to use, copy, modify, and distribute this
source code, or portions hereof, for any purpose, without fee, subject
to the following restrictions:

1. The origin of this source code must not be misrepresented.

2. Altered versions must be plainly marked as such and must not
  be misrepresented as being the original source.

3. This Copyright notice may not be removed or altered from
 any
  source or altered source distribution.

The Contributing Authors and Group 42, Inc. specifically permit,
without fee, and encourage the use of this source code as a component
to supporting the PNG file format in commercial products.  If you use
this source code in a product, acknowledgment is not required but would
be appreciated.
## IAIK (Institute for Applied Information Processing and Communication) PKCS#11 wrapper files v1

### IAIK License
<pre>

Copyright (c) 2002 Graz University of Technology. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this
  list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

3. The end-user documentation included with the redistribution, if any, must
  include the following acknowledgment:

  "This product includes software developed by IAIK of Graz University of
   Technology."

Alternately, this acknowledgment may appear in the software itself, if and
wherever such third-party
acknowledgments normally appear.

4. The names "Graz University of Technology" and "IAIK of Graz University of
Technology" must not be used to endorse or promote products derived from this
software without prior written permission.

5. Products derived from this software may not be called "IAIK PKCS Wrapper",
nor may "IAIK" appear in their name, without prior written permission of
Graz University of Technology.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
LICENSOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

</pre>
## Apache Xerces v2.12.2

### Apache Xerces Notice
<pre>
=========================================================================
== NOTICE file corresponding to section 4(d) of the Apache License,    ==
== Version 2.0, in this case for the Apache Xerces Java distribution.  ==
=========================================================================

Apache Xerces Java
Copyright 1999-2022 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Portions of this software were originally based on the following:
- software copyright (c) 1999, IBM Corporation., http://www.ibm.com.
- software copyright (c) 1999, Sun Microsystems., http://www.sun.com.
- voluntary contributions made by Paul Eng on behalf of the
Apache Software Foundation that were originally developed at iClick, Inc.,
software copyright (c) 1999.
</pre>

### Apache 2.0 License
<pre>

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual
or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications

represent, as a whole, an original work
of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have
made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients
of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the
Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution
intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should
be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

</pre>
The GIFLIB distribution is Copyright (c) 1997 Eric S. Raymond

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT
OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
## Harfbuzz v8.2.2

### Harfbuzz License

<pre>

HarfBuzz is licensed under the so-called "Old MIT" license.  Details follow.
For parts of HarfBuzz that are licensed under different licenses see individual
files names COPYING in subdirectories where applicable.

Copyright  2010-2023  Google, Inc.
Copyright  2018-2020  Ebrahim Byagowi
Copyright  2004-2013  Red Hat, Inc.
Copyright  2019  Facebook, Inc.
Copyright (C) 2012 Zilong Tan (eric.zltan@gmail.com)
Copyright  2007  Chris Wilson
Copyright  2018-2019 Adobe Inc.
Copyright  2006-2023 Behdad Esfahbod
Copyright  1998-2004  David Turner and Werner Lemberg
Copyright  2009  Keith Stribley
Copyright  2018  Khaled Hosny
Copyright  2016  Elie Roux <elie.roux@telecom-bretagne.eu>
Copyright  2016  Igalia S.L.
Copyright  2015  Mozilla Foundation.
Copyright  1999  David Turner
Copyright  2005  Werner Lemberg
Copyright  2013-2015  Alexei Podtelezhnikov
Copyright  2022 Matthias Clasen
Copyright  2011  Codethink Limited

For full copyright notices consult
 the individual files in the package.

Permission is hereby granted, without written agreement and without
license or royalty fees, to use, copy, modify, and distribute this
software and its documentation for any purpose, provided that the
above copyright notice and the following two paragraphs appear in
all copies of this software.

IN NO EVENT SHALL THE COPYRIGHT HOLDER BE LIABLE TO ANY PARTY FOR
DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE AND ITS DOCUMENTATION, EVEN
IF THE COPYRIGHT HOLDER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

THE COPYRIGHT HOLDER SPECIFICALLY DISCLAIMS ANY WARRANTIES, INCLUDING,
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE.  THE SOFTWARE PROVIDED HEREUNDER IS
ON AN "AS IS" BASIS, AND THE COPYRIGHT HOLDER HAS NO OBLIGATION TO
PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

All source code, except for one section,
is licensed as above. The one
exception is licensed with a slightly different MIT variant:
The contents of this directory are licensed under the following terms:

---

The below license applies to the following files:
libharfbuzz/hb-ucd.cc

Copyright (C) 2012 Grigori Goronzy <greg@kinoho.net>

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE
OF THIS SOFTWARE.

---

The below license applies to the following files:
libharfbuzz/hb-unicode-emoji-table.hh

2023 Unicode, Inc.
Unicode and the Unicode Logo are registered trademarks of Unicode, Inc.
in the U.S. and other countries.
For terms of use, see https://www.unicode.org/terms_of_use.html

</pre>

### AUTHORS File Information
```

Behdad Esfahbod
David Corbett
David Turner
Ebrahim Byagowi
Garret Rieger
Jonathan Kew
Khaled Hosny
Lars Knoll
Martin Hosken
```

Owen Taylor
Roderick Sheeter
Roozbeh Pournader
Simon Hausmann
Werner Lemberg

```
## zlib v1.2.13

### zlib License
<pre>

Copyright (C) 1995-2022 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied
warranty.  In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
  claim that you wrote the original software. If you use this software
  in a product, an acknowledgment in the product documentation would be
  appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
  misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

</pre>
## Eastman Kodak Company: Portions of color management and imaging software

### Eastman Kodak Notice
<pre>
Portions Copyright Eastman Kodak Company 1991-2003
</pre>
## Apache Xalan v2.7.3

### Apache Xalan Notice
<pre>

================================================================================
====
  ==  NOTICE file corresponding to the section 4d of the Apache License, Version 2.0, ==
```

== in this case for the Apache Xalan distribution. ==
==========
====

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).

Specifically, we only include the XSLTC portion of the source from the Xalan distribution.
The Xalan project has two processors: an interpretive one (Xalan Interpretive) and a
compiled one (The XSLT Compiler (XSLTC)). We *only* use the XSLTC part of Xalan; We use
the source from the packages that are part of the XSLTC sources.

Portions of this software was originally based on the following:

- software copyright (c) 1999-2002, Lotus Development Corporation.,
http://www.lotus.com.
- software copyright (c) 2001-2002, Sun Microsystems., http://www.sun.com.
- software copyright (c) 2003, IBM Corporation., http://www.ibm.com.
- voluntary contributions made by Ovidiu Predescu (ovidiu@cup.hp.com) on behalf of the
Apache Software Foundation and was originally developed at Hewlett Packard Company.

</pre>

### Apache 2.0 License
<pre>

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control,
are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available
under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright
owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,

worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare
Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement,
then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative
Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or

documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including

any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted
against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to
in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

JLEX COPYRIGHT NOTICE, LICENSE AND DISCLAIMER.
Copyright 1996-2003 by Elliot Joel Berk and C. Scott Ananian
Permission to use, copy, modify, and distribute this software and
its documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both the copyright notice and this permission notice and warranty
disclaimer appear in supporting documentation, and that the name of
the authors or their employers not be used in advertising or publicity
pertaining to distribution of the software without specific, written
prior permission.
The authors and their employers disclaim all warranties with regard to
this software, including all implied warranties of merchantability
and
fitness. In no event shall the authors or their employers be liable for
any special, indirect or consequential damages or any damages whatsoever
resulting from loss of use, data or profits, whether in an action of
contract, negligence or other tortious action, arising out of or in
connection with the use or performance of this software.The portions of
JLex output which are hard-coded into the JLex source code are (naturally)
covered by this same license.

</pre>
## International Components for Unicode (ICU4J) v74.1

### ICU4J License
```
UNICODE LICENSE V3

COPYRIGHT AND PERMISSION NOTICE

Copyright  2016-2023 Unicode, Inc.

NOTICE TO USER: Carefully read the following legal agreement. BY
DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING DATA FILES, AND/OR
SOFTWARE, YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT. IF YOU DO NOT AGREE, DO NOT
DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE THE DATA FILES OR SOFTWARE.

Permission is hereby granted, free of charge, to any person obtaining a
copy of data files and any associated documentation (the "Data Files") or
software and any associated documentation (the "Software") to deal in the
Data Files or Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, and/or sell
copies of the Data Files or Software, and to permit persons to whom the
Data Files or Software are furnished to do so, provided
that either (a)
this copyright and permission notice appear with all copies of the Data
```

Files or Software, or (b) this copyright and permission notice appear in
associated Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS.

IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall
not be used in advertising or otherwise to promote the sale, use or other
dealings in these Data Files or Software
without prior written
authorization of the copyright holder.

---

Third-Party Software Licenses

This section contains third-party software notices and/or additional
terms for licensed third-party software components included within ICU
libraries.

---

ICU License - ICU 1.8.1 to ICU 57.1

COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1995-2016 International Business Machines Corporation and others
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, and/or sell copies of the Software, and to permit persons
to whom the Software is furnished to do so, provided that the above
copyright notice(s) and
this permission notice appear in all copies of
the Software and that both the above copyright notice(s) and this
permission notice appear in supporting documentation.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization of the copyright holder.

All
trademarks and registered trademarks mentioned herein are the property of their respective owners.

---

Time Zone Database

ICU uses the public domain data and code derived from Time Zone Database for its time zone support. The ownership of the TZ database is explained in BCP 175: Procedure for Maintaining the Time Zone Database section 7.

# 7.  Database Ownership
#
#    The TZ database itself is not an IETF Contribution or an IETF
#    document.  Rather it is a pre-existing and regularly updated work
#    that is in the public domain, and is intended to remain in the
#    public domain.  Therefore, BCPs 78 [RFC5378] and 79 [RFC3979] do
#    not apply to the TZ Database or contributions that individuals make
#    to it.  Should any claims be made and substantiated against the TZ
#    Database, the organization that is providing the IANA
#    Considerations defined in this RFC, under the memorandum of
#
   understanding with the IETF, currently ICANN, may act in accordance
#    with all competent court orders.  No ownership claims will be made
#    by ICANN or the IETF Trust on the database or the code.  Any person
#    making a contribution to the database or code waives all rights to
#    future claims in that contribution or in the TZ Database.

---

==========

From: https://www.unicode.org/copyright.html

For the general privacy policy governing access to this site, see the Unicode Privacy Policy.

Unicode Copyright

Copyright 1991-2023 Unicode, Inc. All rights reserved.

Definitions

Unicode Data Files ("DATA FILES") include all data files under the directories:
https://www.unicode.org/Public/
https://www.unicode.org/reports/
https://www.unicode.org/ivd/data/

Unicode Data Files do not include PDF online code charts
under the directory:
https://www.unicode.org/Public/

Unicode Software ("SOFTWARE") includes any source code published in the Unicode Standard
or any source code or compiled code under the directories:
https://www.unicode.org/Public/PROGRAMS/
https://www.unicode.org/Public/cldr/
http://site.icu-project.org/download/

Terms of Use

Certain documents and files on this website contain a legend indicating that "Modification is permitted." Any person is hereby authorized, without fee, to modify such documents and files to create derivative works conforming to the Unicode Standard, subject to Terms and Conditions herein.

Any person is hereby authorized, without fee, to view, use, reproduce, and distribute all documents and files, subject to the Terms and Conditions herein.

Further specifications of rights and restrictions pertaining to the use of the Unicode DATA FILES and SOFTWARE can be found in the Unicode Data Files and Software License.

Each version of the Unicode Standard has further specifications of rights and restrictions of use. For the book editions (Unicode 5.0 and earlier), these are found on the back of the title page.

The Unicode PDF online code charts carry specific restrictions. Those restrictions are incorporated as the first page of each PDF code chart.

All other files, including online documentation of the core specification for Unicode 6.0 and later, are covered under these general Terms of Use.

No license is granted to "mirror" the Unicode website where a fee is charged for access to the "mirror" site.

Modification is not permitted with respect to this document. All copies of this document must be verbatim.

Restricted Rights Legend

Any technical data or software which is licensed to the United States of America, its agencies and/or instrumentalities under this Agreement is commercial technical data or commercial computer software developed exclusively

at private expense as defined in FAR 2.101, or DFARS 252.227-7014 (June 1995), as applicable. For technical data, use, duplication, or disclosure by the Government is subject to restrictions as set forth in DFARS 202.227-7015 Technical Data, Commercial and Items (Nov 1995) and this Agreement. For Software, in accordance with FAR 12-212 or DFARS 227-7202, as applicable, use, duplication or disclosure by the Government is subject to the restrictions set forth in this Agreement.

Warranties and Disclaimers

This publication and/or website may include technical or typographical errors or other inaccuracies. Changes are periodically added to the information herein; these changes will be incorporated in new editions of the publication and/or website. Unicode, Inc. may make improvements and/or changes in the product(s) and/or program(s) described in this publication and/or website at any time.

If this file has been purchased on magnetic or optical media from Unicode, Inc.
the sole and exclusive remedy for any claim will be exchange of the defective media within ninety (90) days of original purchase.

EXCEPT AS PROVIDED IN SECTION E.2, THIS PUBLICATION AND/OR SOFTWARE IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND EITHER EXPRESS, IMPLIED, OR STATUTORY, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT. UNICODE, INC. AND ITS LICENSORS ASSUME NO RESPONSIBILITY FOR ERRORS OR OMISSIONS IN THIS PUBLICATION AND/OR SOFTWARE OR OTHER DOCUMENTS WHICH ARE REFERENCED BY OR LINKED TO THIS PUBLICATION OR THE UNICODE WEBSITE.

Waiver of Damages

In no event shall Unicode, Inc. or its licensors be liable for any special, incidental, indirect or consequential damages of any kind, or any damages whatsoever, whether or not Unicode, Inc. was advised of the possibility of the damage, including, without limitation, those resulting from the following: loss of use, data or profits, in connection with the use, modification or distribution of this information or its derivatives.

Trademarks & Logos

The Unicode Word Mark and the Unicode Logo are trademarks of Unicode, Inc. The Unicode Consortium and Unicode, Inc. are trade names of Unicode, Inc. Use of the information and materials found on this website indicates your acknowledgement of Unicode, Inc.s exclusive worldwide rights in the Unicode Word Mark, the Unicode Logo, and the Unicode trade names.

The Unicode Consortium Name and Trademark Usage Policy (Trademark Policy) are incorporated herein by reference and you agree to abide by the provisions of the Trademark Policy, which may be changed from time to time in the sole discretion of Unicode, Inc.

All third party trademarks referenced herein are the property of their respective owners.

Miscellaneous

Jurisdiction and Venue. This website is operated from a location in the State of California, United States of America. Unicode, Inc.
makes no representation that the materials are appropriate for use in other locations. If you access this website from other locations, you are responsible for compliance with local laws. This Agreement, all use of this website and any claims and damages resulting from use of this website are governed solely by the laws of the State of California without regard to any principles which would apply the laws of a different jurisdiction. The user agrees that any disputes regarding this website shall be resolved solely in the courts located in Santa Clara County, California. The user agrees said courts have personal jurisdiction and agree to waive any right to transfer the dispute to any other forum.

Modification by Unicode, Inc. Unicode, Inc. shall have the right to modify this Agreement at any time by posting it to this website. The user may not assign any part of this Agreement without Unicode, Inc.s prior written consent.

Taxes. The user agrees to pay any taxes arising

from access to this website or use of the information herein, except for those based on Unicodes net income.

Severability. If any provision of this Agreement is declared invalid or unenforceable, the remaining provisions of this Agreement shall remain in effect.

Entire Agreement. This Agreement constitutes the entire agreement between the parties.

```
Copyright (c) %YEARS% Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact
 Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.
## DOM Level 3 Core Specification v1.0

### W3C Software Notice
<pre>
Copyright  2004 World Wide Web Consortium, (Massachusetts Institute of Technology,
European Research Consortium for Informatics and Mathematics, Keio University).
All Rights Reserved.

The DOM bindings are published under the W3C Software Copyright Notice and License.
The software license requires "Notice of any changes or modifications to the W3C
files, including the date changes were made." Consequently, modified versions of
the DOM bindings must document that they do not conform to the W3C standard; in the
case of the IDL definitions, the pragma prefix can no longer be 'w3c.org'; in the
case of the Java language binding, the package names can no longer be in the
'org.w3c' package.
</pre>

### W3C License
<pre>
```

W3C SOFTWARE NOTICE AND LICENSE

http://www.w3.org/Consortium/Legal/2002/copyright-software-20021231

This work (and included software, documentation such as READMEs, or other related items) is being provided
by the copyright holders under the following
license. By obtaining, using and/or copying this work, you (the licensee) agree that you have read, understood, and will comply with the following terms and conditions.

Permission to copy, modify, and distribute this software and its documentation, with or without modification, for any purpose and without fee or royalty is hereby granted, provided that you include the following on ALL copies of the software and documentation or portions thereof, including modifications:

1.The full text of this NOTICE in a location viewable to users of the redistributed or derivative work.

2.Any pre-existing intellectual property disclaimers, notices, or terms and conditions. If none exist, the W3C Software Short Notice should be included (hypertext is preferred, text is permitted) within the body of any redistributed or derivative code.

3.Notice of any changes or modifications to the files, including the date changes were made.
(We recommend you provide URIs to the location from
which the code is derived.)

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE OR DOCUMENTATION WILL NOT INFRINGE ANY THIRD PARTY PATENTS,COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE SOFTWARE OR DOCUMENTATION. The name and trademarks of copyright holders may NOT be used in advertising or publicity pertaining to the software without specific, written prior permission. Title to copyright in this software and any associated documentation will at all times remain with copyright holders.

---

This formulation of W3C's notice and license became active on December 31 2002. This

version removes the copyright ownership notice such that this
license can be used with materials other than those owned by the W3C, reflects
that ERCIM is now a host of the W3C, includes references to this specific
dated version of the license, and removes the ambiguous grant of "use".
Otherwise, this version is the same as the previous version and is written so
as to preserve the Free Software Foundation's assessment of GPL compatibility
and OSI's certification under the Open Source Definition. Please see our
Copyright FAQ for common questions about using materials from our site,
including specific terms and conditions for packages like libwww, Amaya, and
Jigsaw. Other questions about this notice can be directed to
site-policy@w3.org.

</pre>
## jopt-simple v5.0.4

### MIT License
<pre>

Copyright (c) 2004-2015 Paul R. Holser, Jr.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

</pre>
## jQuery v3.6.1

### jQuery License
```
jQuery v 3.6.1
Copyright OpenJS Foundation and other contributors, https://openjsf.org/
```

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER
IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

**********

The jQuery JavaScript Library v3.6.1 also includes Sizzle.js

Sizzle.js includes the following license:

Copyright JS Foundation and other contributors, https://js.foundation/

This software consists of voluntary contributions made by many
individuals. For exact contribution history, see the revision history
available at https://github.com/jquery/sizzle

The following license applies to all parts of this software except as
documented below:

====

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons
to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====

All files located in the node_modules and external directories are
externally maintained libraries used by this software which have their
own licenses; we recommend you read them, as their terms may differ from
the terms above.

**********

```
## CUP Parser Generator for Java v 0.11b

### CUP Parser Generator License

```
Copyright 1996-2015 by Scott Hudson, Frank Flannery, C. Scott Ananian, Michael Petter

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted, provided
that the above copyright notice appear in all copies and that both
the copyright notice and this permission notice and warranty disclaimer
appear in supporting documentation, and that the names of the authors or
their employers not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior permission.

The authors and their employers disclaim all warranties with regard to
this software, including all implied warranties of merchantability and
fitness. In no event shall the authors or their employers be liable for
any special, indirect or consequential damages or any damages whatsoever
resulting from loss of use, data or profits, whether
 in an action of
contract, negligence or other tortious action, arising out of or in
connection with the use or performance of this software.
```
---
```
This is an open source license. It is also GPL-Compatible (see entry for
"Standard ML of New Jersey"). The portions of CUP output which are hard-coded
into the CUP source code are (naturally) covered by this same license, as is

the CUP runtime code linked with the generated parser.
```

## PC/SC Lite v1.9.9

### PC/SC Lite Notice
```
MUSCLE SmartCard Development ( https://pcsclite.apdu.fr/ )

Only 3 header files are included in this distribution: winscard.h, wintypes.h, pcsclite.h

Copyright for winscard.h:
* Copyright (C) 1999-2003
*  David Corcoran <corcoran@musclecard.com>
* Copyright (C) 2002-2009
*  Ludovic Rousseau <ludovic.rousseau@free.fr>

Copyright for wintypes.h:
* Copyright (C) 1999
*  David Corcoran <corcoran@musclecard.com>
* Copyright (C) 2002-2011
*  Ludovic Rousseau <ludovic.rousseau@free.fr>

Copyright for pcsclite.h:
* Copyright (C) 1999-2004
*  David Corcoran <corcoran@musclecard.com>
* Copyright (C) 2002-2011
*  Ludovic Rousseau <ludovic.rousseau@free.fr>
* Copyright (C) 2005
*  Martin Paljak <martin@paljak.pri.ee>

```

### PC/SC Lite License
```

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain
 the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
  derived from this software without specific prior written permission.
```
```

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

```

The GNU General Public License (GPL)

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that
you have the freedom to
distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for
```

a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also,
for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be
distributed under the terms of
this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided
that you conspicuously and
appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License

and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this

License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it.

However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically
receives a license from the original licensor to
copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you,
then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make
thoroughly clear what is believed to be a
consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original

copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How
to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.

Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'. This is free software, and you are welcome to redistribute it under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something
other than 'show w' and 'show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school,
if any, to sign a "copyright disclaimer" for the program, if necessary.  Here
is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the program
  'Gnomovision' (which makes passes at compilers) written by James Hacker.

  signature of Ty Coon, 1 April 1989

  Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs.  If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library.  If this is what you want to do, use the GNU Library General Public
License instead of this License.

"CLASSPATH" EXCEPTION TO THE GPL

Certain source files distributed by Oracle America and/or its affiliates are
subject to the following
 clarification and special exception to the GPL, but
only where Oracle has expressly included in the particular source file's header
the words "Oracle designates this particular file as subject to the "Classpath"
exception as provided by Oracle in the LICENSE file that accompanied this code."

  Linking this library statically or dynamically with other modules is making
  a combined work based on this library.  Thus, the terms and conditions of
  the GNU General Public License cover the whole combination.

  As a special exception, the copyright holders of this library give you
  permission to link this library with independent modules to produce an
  executable, regardless of the license terms of these independent modules,
  and to copy and distribute the resulting executable under terms of your
  choice, provided that you also meet, for each linked independent module,
  the terms and conditions of the license of that module.  An independent
  module is a module
 which is not derived from or based on this library.  If
  you modify this library, you may extend this exception to your version of
  the library, but you are not obligated to do so.  If you do not wish to do
  so, delete this exception statement from your version.
## jQuery UI v1.13.2

### jQuery UI License
```

Copyright jQuery Foundation and other contributors, https://jquery.org/
```

This software consists of voluntary contributions made by many
individuals. For exact contribution history, see the revision history
available at https://github.com/jquery/jquery-ui

The following license applies to all parts of this software except as
documented below:

====

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT
 WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====

Copyright and related rights for sample code are waived via CC0. Sample
code is defined as all source code contained within the demos directory.

CC0: http://creativecommons.org/publicdomain/zero/1.0/

====

All files located in the node_modules and external directories are
externally maintained libraries used by this software which have their
own licenses; we recommend you read them, as their terms may differ from
the terms above.

```
Copyright (c) %YEARS% Oracle and/or its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
```

modification, are permitted provided that the following conditions
are met:

- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

- Neither the name of Oracle nor the names of its
  contributors may be used to endorse or promote products derived
  from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED.  IN NO
 EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
## Dynalink v.5

### Dynalink License
<pre>

Copyright (c) 2009-2013, Attila Szegedi

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
* Redistributions of source code must retain the above copyright
 notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
* Neither the name of the copyright holder nor the names of
 contributors may be used to endorse or promote products derived from
 this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A

PARTICULAR PURPOSE ARE DISCLAIMED. IN
NO EVENT SHALL COPYRIGHT HOLDER
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

</pre>
## Mesa 3-D Graphics Library v21.0.3

### Mesa License

```
Copyright (C) 1999-2007  Brian Paul   All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN
ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

Attention, Contributors

When contributing to the Mesa project you must agree to the licensing terms
of the component to which you're contributing.
The following section lists the primary components of the Mesa distribution
and their respective licenses.
Mesa Component Licenses



Component        Location             License
```

---

| | | |
|---|---|---|
| Main Mesa code | src/mesa/ | MIT |
| Device drivers | src/mesa/drivers/* | MIT, generally |
| Gallium code | src/gallium/ | MIT |
| Ext headers | GL/glext.h | Khronos |
| | GL/glxext.h | Khronos |
| | GL/wglext.h | Khronos |
| | KHR/khrplatform.h | Khronos |

**********

---

include/GL/gl.h :

Mesa 3-D
graphics library

Copyright (C) 1999-2006 Brian Paul All Rights Reserved.
Copyright (C) 2009 VMware, Inc. All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

**********

---

include/GL/glext.h
include/GL/glxext.h
include/GL/wglxext.h :

Copyright (c) 2013 - 2018 The Khronos Group Inc.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and/or associated documentation files (the
"Materials"), to deal in the Materials without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Materials, and to
permit persons to whom the Materials are furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Materials.

THE MATERIALS ARE PROVIDED "AS IS", WITHOUT
WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
MATERIALS OR THE USE OR OTHER DEALINGS IN THE MATERIALS.

**********

---
include/KHR/khrplatform.h :

Copyright (c) 2008 - 2018 The Khronos Group Inc.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and/or associated documentation files (the
"Materials"), to deal in the Materials without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Materials, and to
permit persons to whom the Materials are furnished to do
so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Materials.

THE MATERIALS ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE

MATERIALS OR THE USE OR OTHER DEALINGS IN THE MATERIALS.

**********

```
## libpng v1.6.40

### libpng License
<pre>

COPYRIGHT NOTICE, DISCLAIMER, and LICENSE
=========================================

PNG Reference Library License version 2
---------------------------------------

Copyright (c) 1995-2023 The PNG Reference Library Authors.
Copyright (c) 2018-2023 Cosmin Truta
Copyright (c) 1998-2018 Glenn Randers-Pehrson
Copyright (c) 1996-1997 Andreas Dilger
Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

The software is supplied "as is", without warranty of any kind,
express or implied, including, without limitation, the warranties
of merchantability, fitness for a particular purpose, title, and
non-infringement.  In no event shall the Copyright owners, or
anyone distributing the software, be liable for any damages or
other liability, whether in contract, tort or otherwise, arising
from, out of, or in connection with the software, or the use or
other dealings in the software, even if advised of the possibility
of such damage.

Permission is hereby
 granted to use, copy, modify, and distribute
this software, or portions hereof, for any purpose, without fee,
subject to the following restrictions:

1. The origin of this software must not be misrepresented; you
   must not claim that you wrote the original software.  If you
   use this software in a product, an acknowledgment in the product
   documentation would be appreciated, but is not required.

2. Altered source versions must be plainly marked as such, and must
   not be misrepresented as being the original software.

3. This Copyright notice may not be removed or altered from any
   source or altered source distribution.
```

PNG Reference Library License version 1 (for libpng 0.5 through 1.6.35)
---

libpng versions 1.0.7, July 1, 2000, through 1.6.35, July 15, 2018 are
Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson, are
derived from libpng-1.0.6, and are distributed according to the
same
disclaimer and license as libpng-1.0.6 with the following individuals
added to the list of Contributing Authors:

Simon-Pierre Cadieux
Eric S. Raymond
Mans Rullgard
Cosmin Truta
Gilles Vollant
James Yu
Mandar Sahastrabuddhe
Google Inc.
Vadim Barkov

and with the following additions to the disclaimer:

There is no warranty against interference with your enjoyment of
the library or against infringement. There is no warranty that our
efforts or the library will fulfill any of your particular purposes
or needs. This library is provided with all faults, and the entire
risk of satisfactory quality, performance, accuracy, and effort is
with the user.

Some files in the "contrib" directory and some configure-generated
files that are distributed with libpng have other copyright owners, and
are released under other open source licenses.

libpng versions 0.97, January 1998, through 1.0.6, March 20, 2000, are
Copyright (c) 1998-2000
Glenn Randers-Pehrson, are derived from
libpng-0.96, and are distributed according to the same disclaimer and
license as libpng-0.96, with the following individuals added to the
list of Contributing Authors:

Tom Lane
Glenn Randers-Pehrson
Willem van Schaik

libpng versions 0.89, June 1996, through 0.96, May 1997, are
Copyright (c) 1996-1997 Andreas Dilger, are derived from libpng-0.88,
and are distributed according to the same disclaimer and license as

libpng-0.88, with the following individuals added to the list of
Contributing Authors:

John Bowler
Kevin Bracey
Sam Bushell
Magnus Holmgren
Greg Roelofs
Tom Tanner

Some files in the "scripts" directory have other copyright owners,
but are released under this license.

libpng versions 0.5, May 1995, through 0.88, January 1996, are
Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

For the purposes of this copyright and license, "Contributing Authors"
is defined as the following set of individuals:

Andreas Dilger
Dave Martindale
Guy Eric Schalnat
Paul Schmidt
Tim Wegner

The PNG Reference Library is supplied "AS IS". The Contributing
Authors and Group 42, Inc. disclaim all warranties, expressed or
implied, including, without limitation, the warranties of
merchantability and of fitness for any purpose. The Contributing
Authors and Group 42, Inc. assume no liability for direct, indirect,
incidental, special, exemplary, or consequential damages, which may
result from the use of the PNG Reference Library, even if advised of
the possibility of such damage.

Permission is hereby granted to use, copy, modify, and distribute this
source code, or portions hereof, for any purpose, without fee, subject
to the following restrictions:

1. The origin of this source code must not be misrepresented.

2. Altered versions must be plainly marked as such and must not
be misrepresented as being the original source.

3. This Copyright notice may not be removed or
altered from any
source or altered source distribution.

The Contributing Authors and Group 42, Inc. specifically permit,

without fee, and encourage the use of this source code as a component
to supporting the PNG file format in commercial products.  If you use
this source code in a product, acknowledgment is not required but would
be appreciated.

TRADEMARK
=========

The name "libpng" has not been registered by the Copyright owners
as a trademark in any jurisdiction.  However, because libpng has
been distributed and maintained world-wide, continually since 1995,
the Copyright owners claim "common-law trademark protection" in any
jurisdiction where common-law trademark is recognized.

</pre>

### AUTHORS File Information
```
PNG REFERENCE LIBRARY AUTHORS
=============================

This is the list of PNG Reference Library ("libpng") Contributing
Authors, for copyright and licensing purposes.

* Andreas Dilger
* Cosmin Truta
* Dave Martindale
* Eric S. Raymond
* Gilles Vollant
 * Glenn Randers-Pehrson
* Greg Roelofs
* Guy Eric Schalnat
* James Yu
* John Bowler
* Kevin Bracey
* Magnus Holmgren
* Mandar Sahastrabuddhe
* Mans Rullgard
* Matt Sarett
* Mike Klein
* Pascal Massimino
* Paul Schmidt
* Philippe Antoine
* Qiang Zhou
* Sam Bushell
* Samuel Williams
* Simon-Pierre Cadieux
* Tim Wegner
```

* Tom Lane
* Tom Tanner
* Vadim Barkov
* Willem van Schaik
* Zhijie Liang
* Arm Holdings
  - Richard Townsend
* Google Inc.
  - Dan Field
  - Leon Scroggins III
  - Matt Sarett
  - Mike Klein
  - Sami Boukortt
  - Wan-Teh Chang

The build projects, the build scripts, the test scripts, and other
files in the "ci", "projects", "scripts" and "tests" directories, have
other copyright owners, but are released under the libpng license.

Some files in the "contrib" directory, and some tools-generated files
that are distributed with libpng, have other copyright owners, and are
released under other open source licenses.
```
## The Unicode Standard, Unicode Character Database, Version 15.1.0

### Unicode Character Database
```

UNICODE LICENSE V3

COPYRIGHT AND PERMISSION NOTICE

Copyright  1991-2023 Unicode, Inc.

NOTICE TO USER: Carefully read the following legal agreement. BY
DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING DATA FILES, AND/OR
SOFTWARE, YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT. IF YOU DO NOT AGREE, DO NOT
DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE THE DATA FILES OR SOFTWARE.

Permission is hereby granted, free of charge, to any person obtaining a
copy of data files and any associated documentation (the "Data Files") or
software and any associated documentation (the "Software") to deal in the
Data Files or Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, and/or sell
copies of the Data Files or Software, and to permit persons to whom the
Data Files or Software

are furnished to do so, provided that either (a)
this copyright and permission notice appear with all copies of the Data
Files or Software, or (b) this copyright and permission notice appear in
associated Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS.

IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall
not be used in advertising or otherwise to promote the sale, use or other
dealings
in these Data Files or Software without prior written
authorization of the copyright holder.

---

Unicode Copyright and Terms of Use
For the general privacy policy governing access to this site, see the Unicode Privacy Policy.

A. Unicode Copyright
Copyright 1991-2023 Unicode, Inc. All rights reserved.

B. Definitions
Unicode Data Files ("DATA FILES") include all data files under the directories:
https://www.unicode.org/Public/
https://www.unicode.org/reports/
https://www.unicode.org/ivd/data/

Unicode Data Files do not include PDF online code charts under the directory:
https://www.unicode.org/Public/

Unicode Software ("SOFTWARE") includes any source code published in the Unicode Standard or any source code or compiled code under the directories:
https://www.unicode.org/Public/PROGRAMS/
https://www.unicode.org/Public/cldr/
http://site.icu-project.org/download/

C. Terms of Use

1. Certain documents and files on this website contain a legend indicating that "Modification is permitted." Any person is hereby authorized, without fee, to modify such documents and files to create derivative works conforming to the Unicode Standard, subject to Terms and Conditions herein.

2. Any person is hereby authorized, without fee, to view, use, reproduce, and distribute all documents and files, subject to the Terms and Conditions herein.

3. Further specifications of rights and restrictions pertaining to the use of the Unicode DATA FILES and SOFTWARE can be found in the Unicode Data Files and Software License.

4. Each version of the Unicode Standard has further specifications of rights and restrictions of use. For the book editions (Unicode 5.0 and earlier), these are found on the back of the title page.

5. The Unicode PDF online code charts carry specific restrictions. Those restrictions are incorporated as the first page of each PDF code chart.

6. All other files, including online documentation of the core specification for Unicode 6.0 and later, are covered under these general Terms of Use.

7. No license is granted to "mirror" the Unicode website where a fee is charged for access to the "mirror" site.

8. Modification is not permitted with respect to this document. All copies of this document must be verbatim.

D. Restricted Rights Legend

1. Any technical data or software which is licensed to the United States of America, its agencies and/or instrumentalities under this Agreement is commercial technical data or commercial computer software developed exclusively at private expense as defined in FAR 2.101, or DFARS 252.227-7014 (June 1995), as applicable. For technical data, use, duplication, or disclosure by the Government is subject to restrictions as set forth in DFARS 202.227-7015 Technical Data, Commercial and Items (Nov 1995) and this Agreement. For Software, in accordance with FAR 12-212 or DFARS 227-7202, as applicable, use, duplication or disclosure by the Government is subject to the restrictions set forth in this Agreement.

E. Warranties and Disclaimers

1. This publication and/or website may include technical or typographical errors or other inaccuracies. Changes are periodically added to the information herein; these changes will be incorporated in new editions of the publication and/or website. Unicode, Inc. may make improvements and/or changes in the product(s) and/or program(s) described in this publication and/or website at any time.

2. If this file has been purchased on magnetic or optical media from Unicode, Inc. the sole and exclusive remedy for any claim will be exchange of the defective media within ninety (90) days of original purchase.

3. EXCEPT AS PROVIDED IN SECTION E.2, THIS PUBLICATION AND/OR SOFTWARE IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND EITHER EXPRESS, IMPLIED, OR STATUTORY, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT. UNICODE, INC. AND ITS LICENSORS ASSUME NO RESPONSIBILITY FOR ERRORS OR OMISSIONS IN THIS PUBLICATION AND/OR SOFTWARE OR OTHER DOCUMENTS WHICH ARE REFERENCED BY OR LINKED TO THIS PUBLICATION OR THE UNICODE WEBSITE.

F. Waiver of Damages

1. In no event shall Unicode, Inc. or its licensors be liable for any special, incidental, indirect or consequential damages of any kind, or any damages whatsoever, whether or not Unicode, Inc. was advised of the possibility of the damage, including, without limitation, those resulting from the following: loss of use, data or profits, in connection with the use, modification or distribution of this information or its derivatives.

G. Trademarks & Logos

1. The Unicode Word Mark and the Unicode Logo are trademarks of Unicode, Inc. "The Unicode Consortium" and "Unicode, Inc." are trade names of Unicode, Inc. Use
of the information and materials found on this website indicates your acknowledgement of Unicode, Inc.'s exclusive worldwide rights in the Unicode Word Mark, the Unicode Logo, and the Unicode trade names.

2. The Unicode Consortium Name and Trademark Usage Policy ("Trademark Policy") are incorporated herein by reference and you agree to abide by the provisions of the Trademark Policy, which may be changed from time to time in the sole discretion of Unicode, Inc.

All third party trademarks referenced herein are the property of their respective owners.

H. Miscellaneous

1. Jurisdiction and Venue. This website is operated from a location in the State of California, United States of America. Unicode, Inc. makes no representation that the materials are appropriate for use in other locations. If you access this website from other locations, you are responsible for compliance with local laws. This Agreement, all use of this website and any claims and damages resulting
from use of this website are governed solely by the laws of the State of California without regard to any principles which would apply the laws of a different jurisdiction. The user agrees that any disputes regarding this website shall be resolved solely in the courts located in Santa Clara County, California. The user agrees said courts have personal jurisdiction and agree to waive any right to transfer the dispute to any other forum.

2. Modification by Unicode, Inc. Unicode, Inc. shall have the right to modify this Agreement at any time by posting it to this website. The user may not assign any part of this Agreement without Unicode, Inc.'s prior written consent.

3. Taxes. The user agrees to pay any taxes arising from access to this website or use of the information herein, except for those based on Unicode's net income.

4. Severability. If any provision of this Agreement is declared invalid or unenforceable, the remaining provisions of this Agreement shall
remain in effect.

5. Entire Agreement. This Agreement constitutes the entire agreement between the parties.

```

# 1.55 jline 3.20.0

## 1.55.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (c) 2002-2020, the original author or authors.
*
* This software is distributable under the BSD license. See the terms of the
* BSD license in the documentation provided with this software.
*
* https://opensource.org/licenses/BSD-3-Clause
*/
/*
* Licensed to the Apache Software Foundation (ASF) under one
* or more contributor license agreements.  See the NOTICE file
* distributed with this work for additional information
```
```

* regarding copyright ownership.  The ASF licenses this file
* to you under the Apache License, Version 2.0 (the
* "License"); you may not use this file except in compliance
* with the License.  You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing,
* software distributed under the License is distributed on an
* "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
* KIND,
 either express or implied.  See the License for the
* specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/builtins/Options.java
No license file was found, but licenses were detected in source scan.

/*
* Licensed to the Apache Software Foundation (ASF) under one
* or more contributor license agreements.  See the NOTICE file
* distributed with this work for additional information
* regarding copyright ownership.  The ASF licenses this file
* to you under the Apache License, Version 2.0 (the
* "License"); you may not use this file except in compliance
* with the License.  You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing,
* software distributed under the License is distributed on an
* "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
* KIND, either express or implied.  See the License for the
* specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/SyntaxError.java
*
 /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/EOFError.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2002-2018, the original author or authors.
*

* This software is distributable under the BSD license. See the terms of the
* BSD license in the documentation provided with this software.
*
* https://opensource.org/licenses/BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/utils/Curses.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/builtins/InputRC.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/impl/KillRing.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/impl/ExternalTerminal.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/Terminal.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/CompletingParsedLine.java
*
 /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/builtins/NfaMatcher.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/impl/LineDisciplineTerminal.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/utils/AttributedStringBuilder.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/impl/PosixSysTerminal.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/utils/NonBlockingReaderImpl.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/impl/completer/FileNameCompleter.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/impl/DumbTerminal.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/utils/NonBlocking.java
*
 /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/Completer.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/style/StyleSource.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/utils/Colors.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/History.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/utils/NonBlockingInputStreamImpl.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/Size.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/style/StyleExpression.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/style/StyleFactory.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/keymap/BindingReader.java
*
 /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/MaskingCallback.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/ParsedLine.java

* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/style/Styler.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/utils/NonBlockingInputStream.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/impl/PosixPtyTerminal.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/utils/StyleResolver.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/utils/NonBlockingReader.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/impl/jna/win/Kernel32.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2002-2019, the original author or authors.
*
* This software is distributable under the BSD license. See the terms of the
* BSD license in the documentation provided with this software.
*
* https://opensource.org/licenses/BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/utils/InfoCmp.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/Candidate.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/Highlighter.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/impl/AbstractPty.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/impl/completer/StringsCompleter.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/impl/completer/ArgumentCompleter.java
*
 /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/impl/AbstractWindowsTerminal.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/utils/Status.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/builtins/ConfigurationPath.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/builtins/Tmux.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/Editor.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2002-2021, the original author or authors.
*
* This software is distributable under the BSD license. See the terms of the
* BSD license in the documentation provided with this software.
*
* https://opensource.org/licenses/BSD-3-Clause

*/

Found in path(s):
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/widget/TailTipWidgets.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/console/impl/ConsoleEngineImpl.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/impl/history/DefaultHistory.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/builtins/Styles.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/LineReader.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/console/impl/SystemRegistryImpl.java
*
 /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/console/ArgDesc.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/PrintAboveWriter.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/utils/AttributedCharSequence.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/builtins/Completers.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/builtins/Commands.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/impl/AbstractTerminal.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/utils/AttributedStyle.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/console/Printer.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/impl/CompletionMatcherImpl.java
*
 /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/console/SystemRegistry.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/console/impl/DefaultPrinter.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/impl/DefaultHighlighter.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/console/impl/SystemHighlighter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2002-2016, the original author or authors.
*
* This software is distributable under the BSD license. See the terms of the
* BSD license in the documentation provided with this software.
*
* https://opensource.org/licenses/BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/utils/ExecHelper.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/utils/package-info.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/impl/AbstractPosixTerminal.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/utils/Levenshtein.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/impl/ExecPty.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/impl/jna/win/WindowsAnsiWriter.java
*
 /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/UserInterruptException.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/Expander.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/utils/DiffHelper.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/keymap/KeyMap.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/impl/UndoTree.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/impl/completer/NullCompleter.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/package-info.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/impl/completer/package-info.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/impl/CursorSupport.java
*
 /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/Widget.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/impl/history/package-info.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/impl/NativeSignalHandler.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/Reference.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/spi/Pty.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/impl/package-info.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/utils/AttributedString.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/MouseEvent.java
*
 /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/impl/MouseSupport.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/utils/WCWidth.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/impl/completer/AggregateCompleter.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/builtins/Source.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/utils/OSUtils.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-

jar/org/jline/utils/InputStreamReader.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-
jar/org/jline/reader/impl/DefaultExpander.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/Cursor.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-
jar/org/jline/utils/ClosedException.java
*
 /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-
jar/org/jline/reader/impl/completer/EnumCompleter.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/Binding.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-
jar/org/jline/utils/ShutdownHooks.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/Attributes.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/Macro.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2002-2016, the original author or authors.
*
* This software is distributable under the BSD license. See the terms of the
* BSD license in the documentation provided with this software.
*
* https://opensource.org/licenses/BSD-3-Clause
*/
/*
* Licensed to the Apache Software Foundation (ASF) under one or more
* contributor license agreements.  See the NOTICE file distributed with
* this work for additional information regarding copyright ownership.
* The ASF licenses this file to You under the Apache License, Version 2.0
* (the "License"); you may not use this file except in compliance with
* the License.  You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND,
 either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/**
* Based on http://antony.lesuisse.org/software/ajaxterm/
*  Public Domain License
*/

Found in path(s):
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-

jar/org/jline/builtins/ScreenTerminal.java
No license file was found, but licenses were detected in source scan.

#
# Copyright (c) 2002-2016, the original author or authors.
#
# This software is distributable under the BSD license. See the terms of the
# BSD license in the documentation provided with this software.
#
# https://opensource.org/licenses/BSD-3-Clause
#

auto_left_margin, bw, bw
auto_right_margin, am, am
back_color_erase, bce, ut
can_change, ccc, cc
ceol_standout_glitch, xhp, xs
col_addr_glitch, xhpa, YA
cpi_changes_res, cpix, YF
cr_cancels_micro_mode, crxm, YB
dest_tabs_magic_smso, xt, xt
eat_newline_glitch, xenl, xn
erase_overstrike, eo, eo
generic_type, gn, gn
hard_copy, hc, hc
hard_cursor, chts, HC
has_meta_key, km, km
has_print_wheel, daisy, YC
has_status_line, hs, hs
hue_lightness_saturation, hls, hl
insert_null_glitch, in, in
lpi_changes_res, lpix, YG
memory_above, da, da
memory_below, db, db
move_insert_mode, mir, mi
move_standout_mode, msgr, ms
needs_xon_xoff, nxon, nx
no_esc_ctlc, xsb, xb
no_pad_char, npc,
 NP
non_dest_scroll_region, ndscr, ND
non_rev_rmcup, nrrmc, NR
over_strike, os, os
prtr_silent, mc5i, 5i
row_addr_glitch, xvpa, YD
semi_auto_right_margin, sam, YE
status_line_esc_ok, eslok, es
tilde_glitch, hz, hz

transparent_underline, ul, ul
xon_xoff, xon, xo
columns, cols, co
init_tabs, it, it
label_height, lh, lh
label_width, lw, lw
lines, lines, li
lines_of_memory, lm, lm
magic_cookie_glitch, xmc, sg
max_attributes, ma, ma
max_colors, colors, Co
max_pairs, pairs, pa
maximum_windows, wnum, MW
no_color_video, ncv, NC
num_labels, nlab, Nl
padding_baud_rate, pb, pb
virtual_terminal, vt, vt
width_status_line, wsl, ws
bit_image_entwining, bitwin, Yo
bit_image_type, bitype, Yp
buffer_capacity, bufsz, Ya
buttons, btns, BT
dot_horz_spacing, spinh, Yc
dot_vert_spacing, spinv, Yb
max_micro_address, maddr, Yd
max_micro_jump, mjump, Ye
micro_col_size, mcs, Yf
micro_line_size, mls, Yg
number_of_pins, npins, Yh
output_res_char, orc, Yi
output_res_horz_inch, orhi, Yk
output_res_line, orl, Yj
output_res_vert_inch,
orvi, Yl
print_rate, cps, Ym
wide_char_size, widcs, Yn
acs_chars, acsc, ac
back_tab, cbt, bt
bell, bel, bl
carriage_return, cr, cr
change_char_pitch, cpi, ZA
change_line_pitch, lpi, ZB
change_res_horz, chr, ZC
change_res_vert, cvr, ZD
change_scroll_region, csr, cs
char_padding, rmp, rP
clear_all_tabs, tbc, ct
clear_margins, mgc, MC

clear_screen, clear, cl
clr_bol, el1, cb
clr_eol, el, ce
clr_eos, ed, cd
column_address, hpa, ch
command_character, cmdch, CC
create_window, cwin, CW
cursor_address, cup, cm
cursor_down, cud1, do
cursor_home, home, ho
cursor_invisible, civis, vi
cursor_left, cub1, le
cursor_mem_address, mrcup, CM
cursor_normal, cnorm, ve
cursor_right, cuf1, nd
cursor_to_ll, ll, ll
cursor_up, cuu1, up
cursor_visible, cvvis, vs
define_char, defc, ZE
delete_character, dch1, dc
delete_line, dl1, dl
dial_phone, dial, DI
dis_status_line, dsl, ds
display_clock, dclk, DK
down_half_line, hd, hd
ena_acs, enacs, eA
enter_alt_charset_mode, smacs, as
enter_am_mode, smam,
SA
enter_blink_mode, blink, mb
enter_bold_mode, bold, md
enter_ca_mode, smcup, ti
enter_delete_mode, smdc, dm
enter_dim_mode, dim, mh
enter_doublewide_mode, swidm, ZF
enter_draft_quality, sdrfq, ZG
enter_insert_mode, smir, im
enter_italics_mode, sitm, ZH
enter_leftward_mode, slm, ZI
enter_micro_mode, smicm, ZJ
enter_near_letter_quality, snlq, ZK
enter_normal_quality, snrmq, ZL
enter_protected_mode, prot, mp
enter_reverse_mode, rev, mr
enter_secure_mode, invis, mk
enter_shadow_mode, sshm, ZM
enter_standout_mode, smso, so
enter_subscript_mode, ssubm, ZN

enter_superscript_mode, ssupm, ZO
enter_underline_mode, smul, us
enter_upward_mode, sum, ZP
enter_xon_mode, smxon, SX
erase_chars, ech, ec
exit_alt_charset_mode, rmacs, ae
exit_am_mode, rmam, RA
exit_attribute_mode, sgr0, me
exit_ca_mode, rmcup, te
exit_delete_mode, rmdc, ed
exit_doublewide_mode, rwidm, ZQ
exit_insert_mode, rmir, ei
exit_italics_mode, ritm, ZR
exit_leftward_mode, rlm, ZS
exit_micro_mode, rmicm, ZT
exit_shadow_mode, rshm,
ZU
exit_standout_mode, rmso, se
exit_subscript_mode, rsubm, ZV
exit_superscript_mode, rsupm, ZW
exit_underline_mode, rmul, ue
exit_upward_mode, rum, ZX
exit_xon_mode, rmxon, RX
fixed_pause, pause, PA
flash_hook, hook, fh
flash_screen, flash, vb
form_feed, ff, ff
from_status_line, fsl, fs
goto_window, wingo, WG
hangup, hup, HU
init_1string, is1, i1
init_2string, is2, is
init_3string, is3, i3
init_file, if, if
init_prog, iprog, iP
initialize_color, initc, Ic
initialize_pair, initp, Ip
insert_character, ich1, ic
insert_line, il1, al
insert_padding, ip, ip
key_a1, ka1, K1
key_a3, ka3, K3
key_b2, kb2, K2
key_backspace, kbs, kb
key_beg, kbeg, @1
key_btab, kcbt, kB
key_c1, kc1, K4
key_c3, kc3, K5

key_cancel, kcan, @2
key_catab, ktbc, ka
key_clear, kclr, kC
key_close, kclo, @3
key_command, kcmd, @4
key_copy, kcpy, @5
key_create, kcrt, @6
key_ctab, kctab, kt
key_dc, kdch1, kD
key_dl, kdl1, kL
key_down, kcud1, kd
key_eic, krmir, kM
key_end, kend, @7
key_enter, kent, @8
key_eol, kel, kE
key_eos,
ked, kS
key_exit, kext, @9
key_f0, kf0, k0
key_f1, kf1, k1
key_f10, kf10, k;
key_f11, kf11, F1
key_f12, kf12, F2
key_f13, kf13, F3
key_f14, kf14, F4
key_f15, kf15, F5
key_f16, kf16, F6
key_f17, kf17, F7
key_f18, kf18, F8
key_f19, kf19, F9
key_f2, kf2, k2
key_f20, kf20, FA
key_f21, kf21, FB
key_f22, kf22, FC
key_f23, kf23, FD
key_f24, kf24, FE
key_f25, kf25, FF
key_f26, kf26, FG
key_f27, kf27, FH
key_f28, kf28, FI
key_f29, kf29, FJ
key_f3, kf3, k3
key_f30, kf30, FK
key_f31, kf31, FL
key_f32, kf32, FM
key_f33, kf33, FN
key_f34, kf34, FO
key_f35, kf35, FP

key_f36, kf36, FQ
key_f37, kf37, FR
key_f38, kf38, FS
key_f39, kf39, FT
key_f4, kf4, k4
key_f40, kf40, FU
key_f41, kf41, FV
key_f42, kf42, FW
key_f43, kf43, FX
key_f44, kf44, FY
key_f45, kf45, FZ
key_f46, kf46, Fa
key_f47, kf47, Fb
key_f48, kf48, Fc
key_f49, kf49, Fd
key_f5, kf5, k5
key_f50, kf50, Fe
key_f51, kf51, Ff
key_f52, kf52, Fg
key_f53, kf53, Fh
key_f54, kf54, Fi
key_f55, kf55, Fj
key_f56, kf56, Fk
key_f57, kf57, Fl
key_f58, kf58,
Fm
key_f59, kf59, Fn
key_f6, kf6, k6
key_f60, kf60, Fo
key_f61, kf61, Fp
key_f62, kf62, Fq
key_f63, kf63, Fr
key_f7, kf7, k7
key_f8, kf8, k8
key_f9, kf9, k9
key_find, kfnd, @0
key_help, khlp, %1
key_home, khome, kh
key_ic, kich1, kI
key_il, kil1, kA
key_left, kcub1, kl
key_ll, kll, kH
key_mark, kmrk, %2
key_message, kmsg, %3
key_move, kmov, %4
key_next, knxt, %5
key_npage, knp, kN
key_open, kopn, %6

key_options, kopt, %7
key_ppage, kpp, kP
key_previous, kprv, %8
key_print, kprt, %9
key_redo, krdo, %0
key_reference, kref, &1
key_refresh, krfr, &2
key_replace, krpl, &3
key_restart, krst, &4
key_resume, kres, &5
key_right, kcuf1, kr
key_save, ksav, &6
key_sbeg, kBEG, &9
key_scancel, kCAN, &0
key_scommand, kCMD, *1
key_scopy, kCPY, *2
key_screate, kCRT, *3
key_sdc, kDC, *4
key_sdl, kDL, *5
key_select, kslt, *6
key_send, kEND, *7
key_seol, kEOL, *8
key_sexit, kEXT, *9
key_sf, kind, kF
key_sfind, kFND, *0
key_shelp, kHLP, #1
key_shome, kHOM, #2
key_sic, kIC, #3
key_sleft, kLFT, #4
key_smessage,
kMSG, %a
key_smove, kMOV, %b
key_snext, kNXT, %c
key_soptions, kOPT, %d
key_sprevious, kPRV, %e
key_sprint, kPRT, %f
key_sr, kri, kR
key_sredo, kRDO, %g
key_sreplace, kRPL, %h
key_sright, kRIT, %i
key_srsume, kRES, %j
key_ssave, kSAV, !1
key_ssuspend, kSPD, !2
key_stab, khts, kT
key_sundo, kUND, !3
key_suspend, kspd, &7
key_undo, kund, &8
key_up, kcuu1, ku

keypad_local, rmkx, ke
keypad_xmit, smkx, ks
lab_f0, lf0, l0
lab_f1, lf1, l1
lab_f10, lf10, la
lab_f2, lf2, l2
lab_f3, lf3, l3
lab_f4, lf4, l4
lab_f5, lf5, l5
lab_f6, lf6, l6
lab_f7, lf7, l7
lab_f8, lf8, l8
lab_f9, lf9, l9
label_format, fln, Lf
label_off, rmln, LF
label_on, smln, LO
meta_off, rmm, mo
meta_on, smm, mm
micro_column_address, mhpa, ZY
micro_down, mcud1, ZZ
micro_left, mcub1, Za
micro_right, mcuf1, Zb
micro_row_address, mvpa, Zc
micro_up, mcuu1, Zd
newline, nel, nw
order_of_pins, porder, Ze
orig_colors, oc, oc
orig_pair, op, op
pad_char, pad, pc
parm_dch, dch, DC
parm_delete_line, dl, DL
parm_down_cursor, cud, DO
parm_down_micro,
mcud, Zf
parm_ich, ich, IC
parm_index, indn, SF
parm_insert_line, il, AL
parm_left_cursor, cub, LE
parm_left_micro, mcub, Zg
parm_right_cursor, cuf, RI
parm_right_micro, mcuf, Zh
parm_rindex, rin, SR
parm_up_cursor, cuu, UP
parm_up_micro, mcuu, Zi
pkey_key, pfkey, pk
pkey_local, pfloc, pl
pkey_xmit, pfx, px
plab_norm, pln, pn

print_screen, mc0, ps
prtr_non, mc5p, pO
prtr_off, mc4, pf
prtr_on, mc5, po
pulse, pulse, PU
quick_dial, qdial, QD
remove_clock, rmclk, RC
repeat_char, rep, rp
req_for_input, rfi, RF
reset_1string, rs1, r1
reset_2string, rs2, r2
reset_3string, rs3, r3
reset_file, rf, rf
restore_cursor, rc, rc
row_address, vpa, cv
save_cursor, sc, sc
scroll_forward, ind, sf
scroll_reverse, ri, sr
select_char_set, scs, Zj
set_attributes, sgr, sa
set_background, setb, Sb
set_bottom_margin, smgb, Zk
set_bottom_margin_parm, smgbp, Zl
set_clock, sclk, SC
set_color_pair, scp, sp
set_foreground, setf, Sf
set_left_margin, smgl, ML
set_left_margin_parm, smglp, Zm
set_right_margin,
smgr, MR
set_right_margin_parm, smgrp, Zn
set_tab, hts, st
set_top_margin, smgt, Zo
set_top_margin_parm, smgtp, Zp
set_window, wind, wi
start_bit_image, sbim, Zq
start_char_set_def, scsd, Zr
stop_bit_image, rbim, Zs
stop_char_set_def, rcsd, Zt
subscript_characters, subcs, Zu
superscript_characters, supcs, Zv
tab, ht, ta
these_cause_cr, docr, Zw
to_status_line, tsl, ts
tone, tone, TO
underline_char, uc, uc
up_half_line, hu, hu
user0, u0, u0

user1, u1, u1
user2, u2, u2
user3, u3, u3
user4, u4, u4
user5, u5, u5
user6, u6, u6
user7, u7, u7
user8, u8, u8
user9, u9, u9
wait_tone, wait, WA
xoff_character, xoffc, XF
xon_character, xonc, XN
zero_motion, zerom, Zx
alt_scancode_esc, scesa, S8
bit_image_carriage_return, bicr, Yv
bit_image_newline, binel, Zz
bit_image_repeat, birep, Xy
char_set_names, csnm, Zy
code_set_init, csin, ci
color_names, colornm, Yw
define_bit_image_region, defbi, Yx
device_type, devt, dv
display_pc_char, dispc, S1
end_bit_image_region, endbi, Yy
enter_pc_charset_mode,
smpch, S2
enter_scancode_mode, smsc, S4
exit_pc_charset_mode, rmpch, S3
exit_scancode_mode, rmsc, S5
get_mouse, getm, Gm
key_mouse, kmous, Km
mouse_info, minfo, Mi
pc_term_options, pctrm, S6
pkey_plab, pfxl, xl
req_mouse_pos, reqmp, RQ
scancode_escape, scesc, S7
set0_des_seq, s0ds, s0
set1_des_seq, s1ds, s1
set2_des_seq, s2ds, s2
set3_des_seq, s3ds, s3
set_a_background, setab, AB
set_a_foreground, setaf, AF
set_color_band, setcolor, Yz
set_lr_margin, smglr, ML
set_page_length, slines, YZ
set_tb_margin, smgtb, MT
enter_horizontal_hl_mode, ehhlm, Xh
enter_left_hl_mode, elhlm, Xl

enter_low_hl_mode, elohlm, Xo
enter_right_hl_mode, erhlm, Xr
enter_top_hl_mode, ethlm, Xt
enter_vertical_hl_mode, evhlm, Xv
set_a_attributes, sgr1, sA
set_pglen_inch, slength, sL

Found in path(s):
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/utils/capabilities.txt
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2002-2018, the original author or authors.
*
* This software is distributable under the BSD license. See the terms of the
* BSD license in the documentation provided with this software.
*
* https://opensource.org/licenses/BSD-3-Clause
*/
/*
* Java TelnetD library (embeddable telnet daemon)
* Copyright (c) 2000-2005 Dieter Wimberger
* All rights reserved.
* <p/>
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions are
* met:
* Redistributions of source code must retain the above copyright notice,
* this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
* this list of conditions and the following disclaimer in the documentation
* and/or other materials provided with the distribution.
* <p/>
* Neither the name of the author
 nor the names of its contributors
* may be used to endorse or promote products derived from this software
* without specific prior written permission.
* <p/>
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDER AND CONTRIBUTORS ``AS
* IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
* THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
* PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE
* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE

* POSSIBILITY OF SUCH DAMAGE.
***/

Found in path(s):
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/builtins/telnet/PortListener.java
*
 /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/builtins/telnet/TelnetIO.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/builtins/telnet/Connection.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/builtins/telnet/ConnectionData.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/builtins/telnet/ConnectionManager.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/builtins/telnet/ConnectionEvent.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2002-2017, the original author or authors.
*
* This software is distributable under the BSD license. See the terms of the
* BSD license in the documentation provided with this software.
*
* https://opensource.org/licenses/BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/builtins/ssh/Ssh.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/style/NopStyleSource.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/builtins/ssh/ShellFactoryImpl.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/style/StyleResolver.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/Buffer.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/impl/jansi/win/JansiWinConsoleWriter.java
*
 /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/style/StyleBundle.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/style/MemoryStyleSource.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/impl/jansi/freebsd/FreeBsdNativePty.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/impl/jansi/solaris/SolarisNativePty.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/impl/jna/win/JnaWinConsoleWriter.java

* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/utils/NonBlockingPumpInputStream.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/builtins/telnet/Telnet.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/utils/NonBlockingPumpReader.java
*
 /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/impl/SimpleMaskingCallback.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/utils/PumpReader.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/style/StyleBundleInvocationHandler.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/style/InterpolationHelper.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/utils/WriterOutputStream.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/impl/AbstractWindowsConsoleWriter.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/impl/jansi/linux/LinuxNativePty.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/style/StyledWriter.java
*
 /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/style/StyleColor.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/impl/BufferImpl.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/impl/jansi/osx/OsXNativePty.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/builtins/ssh/ShellCommand.java
No license file was found, but licenses were detected in source scan.

<!--

  Copyright (c) 2002-2020, the original author or authors.

  This software is distributable under the BSD license. See the terms of the
  BSD license in the documentation provided with this software.

  https://opensource.org/licenses/BSD-3-Clause

-->

Found in path(s):
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/META-INF/maven/org.jline/jline-remote-ssh/pom.xml
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/META-INF/maven/org.jline/jline/pom.xml
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/META-

INF/maven/org.jline/jline-style/pom.xml
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/META-INF/maven/org.jline/jline-console/pom.xml
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/META-INF/maven/org.jline/jline-terminal-jna/pom.xml
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/META-INF/maven/org.jline/jline-builtins/pom.xml
*
/opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/META-INF/maven/org.jline/jline-reader/pom.xml
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/META-INF/maven/org.jline/jline-terminal/pom.xml
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/META-INF/maven/org.jline/jline-remote-telnet/pom.xml
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/META-INF/maven/org.jline/jline-terminal-jansi/pom.xml
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2002-2020, the original author or authors.
*
* This software is distributable under the BSD license. See the terms of the
* BSD license in the documentation provided with this software.
*
* https://opensource.org/licenses/BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/impl/completer/SystemCompleter.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/console/CommandInput.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/impl/jansi/JansiSupportImpl.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/widget/AutopairWidgets.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/TerminalBuilder.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/impl/jna/JnaSupportImpl.java
*
/opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/console/impl/JlineCommandRegistry.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/impl/ReaderUtils.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/builtins/Nano.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/console/ScriptEngine.java

* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/console/ConsoleEngine.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/utils/Log.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/console/CommandMethods.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/impl/jna/freebsd/FreeBsdNativePty.java
*
/opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/utils/Display.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/impl/jna/linux/LinuxNativePty.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/impl/jna/freebsd/CLibrary.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/impl/jansi/JansiNativePty.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/spi/JansiSupport.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/LineReaderBuilder.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/spi/JnaSupport.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/widget/AutosuggestionWidgets.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/builtins/ConsoleOptionGetter.java
*
/opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/console/CmdDesc.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/impl/jna/win/JnaWinSysTerminal.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/impl/jna/solaris/CLibrary.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/widget/Widgets.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/console/CmdLine.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/impl/jansi/win/JansiWinSysTerminal.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/impl/DefaultParser.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/impl/jna/JnaNativePty.java
*
/opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/impl/jna/linux/CLibrary.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/builtins/TTop.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/EndOfFileException.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/console/impl/Builtins.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/Parser.java

* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/utils/ColorPalette.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/impl/jna/osx/CLibrary.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/builtins/Less.java
*
/opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/impl/LineReaderImpl.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/impl/jna/osx/OsXNativePty.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/reader/CompletionMatcher.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/console/CommandRegistry.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/impl/jna/solaris/SolarisNativePty.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/utils/Signals.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/console/impl/AbstractCommandRegistry.java
No license file was found, but licenses were detected in source scan.

#
# Copyright (c) 2002-2018, the original author or authors.
#
# This software is distributable under the BSD license. See the terms of the
# BSD license in the documentation provided with this software.
#
# https://opensource.org/licenses/BSD-3-Clause
#

black
maroon
green
olive
navy
purple
teal
silver
grey
red
lime
yellow
blue
fuchsia
aqua
white
grey0
navyblue
darkblue

blue3
blue3a
blue1
darkgreen
deepskyblue4
deepskyblue4a
deepskyblue4b
dodgerblue3
dodgerblue2
green4
springgreen4
turquoise4
deepskyblue3
deepskyblue3a
dodgerblue1
green3
springgreen3
darkcyan
lightseagreen
deepskyblue2
deepskyblue1
green3a
springgreen3a
springgreen2
cyan3
darkturquoise
turquoise2
green1
springgreen2a
springgreen1
mediumspringgreen
cyan2
cyan1
darkred
deeppink4
purple4
purple4a
purple3
blueviolet
orange4
grey37
mediumpurple4
slateblue3
slateblue3a
royalblue1
chartreuse4
darkseagreen4
paleturquoise4

steelblue
steelblue3
cornflowerblue
chartreuse3
darkseagreen4a
cadetblue
cadetbluea
skyblue3
steelblue1
chartreuse3a
palegreen3
seagreen3
aquamarine3
mediumturquoise
steelblue1a
chartreuse2
seagreen2
seagreen1
seagreen1a
aquamarine1
darkslategray2
darkreda
deeppink4a
darkmagenta
darkmagentaa
darkviolet
purplea
orange4a
lightpink4
plum4
mediumpurple3
mediumpurple3a
slateblue1
yellow4
wheat4
grey53
lightslategrey
mediumpurple
lightslateblue
yellow4a
darkolivegreen3
darkseagreen
lightskyblue3
lightskyblue3a
skyblue2
chartreuse2a
darkolivegreen3a
palegreen3a

darkseagreen3
darkslategray3
skyblue1
chartreuse1
lightgreen
lightgreena
palegreen1
aquamarine1a
darkslategray1
red3
deeppink4b
mediumvioletred
magenta3
darkvioleta
purpleb
darkorange3
indianred
hotpink3
mediumorchid3
mediumorchid
mediumpurple2
darkgoldenrod
lightsalmon3
rosybrown
grey63
mediumpurple2a
mediumpurple1
gold3
darkkhaki
navajowhite3
grey69
lightsteelblue3
lightsteelblue
yellow3
darkolivegreen3b
darkseagreen3a
darkseagreen2
lightcyan3
lightskyblue1
greenyellow
darkolivegreen2
palegreen1a
darkseagreen2a
darkseagreen1
paleturquoise1
red3a
deeppink3
deeppink3a

magenta3a
magenta3b
magenta2
darkorange3a
indianreda
hotpink3a
hotpink2
orchid
mediumorchid1
orange3
lightsalmon3a
lightpink3
pink3
plum3
violet
gold3a
lightgoldenrod3
tan
mistyrose3
thistle3
plum2
yellow3a
khaki3
lightgoldenrod2
lightyellow3
grey84
lightsteelblue1
yellow2
darkolivegreen1
darkolivegreen1a
darkseagreen1a
honeydew2
lightcyan1
red1
deeppink2
deeppink1
deeppink1a
magenta2a
magenta1
orangered1
indianred1
indianred1a
hotpink
hotpinka
mediumorchid1a
darkorange
salmon1
lightcoral

palevioletred1
orchid2
orchid1
orange1
sandybrown
lightsalmon1
lightpink1
pink1
plum1
gold1
lightgoldenrod2a
lightgoldenrod2b
navajowhite1
mistyrose1
thistle1
yellow1
lightgoldenrod1
khaki1
wheat1
cornsilk1
grey100
grey3
grey7
grey11
grey15
grey19
grey23
grey27
grey30
grey35
grey39
grey42
grey46
grey50
grey54
grey58
grey62
grey66
grey70
grey74
grey78
grey82
grey85
grey89
grey93

Found

in path(s):
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/utils/colors.txt
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2009-2018 the original author(s).
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/terminal/impl/jansi/win/WindowsAnsiWriter.java
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/utils/AnsiWriter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2002-2017, the original author or authors.
*
* This software is distributable under the BSD license. See the terms of the
* BSD license in the documentation provided with this software.
*
* https://opensource.org/licenses/BSD-3-Clause
*/
/*
* Java TelnetD library (embeddable telnet daemon)
* Copyright (c) 2000-2005 Dieter Wimberger
* All rights reserved.
* <p/>
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions are
* met:
* Redistributions of source code must retain the above copyright notice,
* this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
* this list of conditions and the following disclaimer in the documentation
* and/or other materials provided with the distribution.
* <p/>

* Neither the name of the author
nor the names of its contributors
* may be used to endorse or promote products derived from this software
* without specific prior written permission.
* <p/>
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDER AND CONTRIBUTORS ``AS
* IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
* THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
* PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE
* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
* POSSIBILITY OF SUCH DAMAGE.
***/

Found in path(s):
* /opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/builtins/telnet/ConnectionListener.java
*
/opt/cola/permits/1882208046_1704836222.642235/0/jline-3-20-0-sources-2-jar/org/jline/builtins/telnet/ConnectionFilter.java

# 1.56 zt 1.16

## 1.56.1 Available under license :

No license file was found, but licenses were detected in source scan.

/**
*  Copyright (C) 2012 ZeroTurnaround LLC <support@zeroturnaround.com>
*
*  Licensed under the Apache License, Version 2.0 (the "License");
*  you may not use this file except in compliance with the License.
*  You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
*  Unless required by applicable law or agreed to in writing, software
*  distributed under the License is distributed on an "AS IS" BASIS,
*  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
*  See the License for the specific language governing permissions and
*  limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-jar/org/zeroturnaround/zip/timestamps/TimestampStrategy.java
* /opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-jar/org/zeroturnaround/zip/Zips.java
* /opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-jar/org/zeroturnaround/zip/timestamps/Java8TimestampStrategy.java
*
 /opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-jar/org/zeroturnaround/zip/timestamps/PreJava8TimestampStrategy.java
* /opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-jar/org/zeroturnaround/zip/ZipEntryUtil.java
* /opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-jar/org/zeroturnaround/zip/IdentityNameMapper.java
* /opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-jar/org/zeroturnaround/zip/FileSource.java
* /opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-jar/org/zeroturnaround/zip/NameMapper.java
* /opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-jar/org/zeroturnaround/zip/ZipEntrySource.java
* /opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-jar/org/zeroturnaround/zip/ByteSource.java
* /opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-jar/org/zeroturnaround/zip/ZipInfoCallback.java
*
 /opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-jar/org/zeroturnaround/zip/ZipUtil.java
* /opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-jar/org/zeroturnaround/zip/ZTFileUtil.java
* /opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-jar/org/zeroturnaround/zip/timestamps/TimestampStrategyFactory.java
* /opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-jar/org/zeroturnaround/zip/ZipEntryCallback.java
No license file was found, but licenses were detected in source scan.

/*
* Licensed to the Apache Software Foundation (ASF) under one or more
* contributor license agreements.  See the NOTICE file distributed with
* this work for additional information regarding copyright ownership.
* The ASF licenses this file to You under the Apache License, Version 2.0
* (the "License"); you may not use this file except in compliance with
* the License.  You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-jar/org/zeroturnaround/zip/commons/StringBuilderWriter.java
*
/opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-jar/org/zeroturnaround/zip/commons/FilenameUtils.java
* /opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-jar/org/zeroturnaround/zip/commons/FileUtilsV2_2.java
* /opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-jar/org/zeroturnaround/zip/commons/FileExistsException.java
* /opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-jar/org/zeroturnaround/zip/commons/IOUtils.java
No license file was found, but licenses were detected in source scan.

/*
* Licensed to the Apache Software Foundation (ASF) under one or more
* contributor license agreements. See the NOTICE file distributed with
* this work for additional information regarding copyright ownership.
* The ASF licenses this file to You under the Apache License, Version 2.0
* (the "License"); you may not use this file except in compliance with
* the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*
*/

Found in path(s):
* /opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-jar/org/zeroturnaround/zip/extra/ZipConstants.java
*
/opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-jar/org/zeroturnaround/zip/extra/AsiExtraField.java
* /opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-jar/org/zeroturnaround/zip/extra/ZipShort.java
* /opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-jar/org/zeroturnaround/zip/extra/ZipExtraField.java
* /opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-jar/org/zeroturnaround/zip/extra/ExtraFieldUtils.java
* /opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-jar/org/zeroturnaround/zip/extra/UnrecognizedExtraField.java
* /opt/cola/permits/1886919998_1705485810.177811/0/zt-zip-1-16-sources-

jar/org/zeroturnaround/zip/extra/ZipLong.java

# 1.57 jre 11.0.21u9

## 1.57.1 Available under license :

## The Unicode Standard, Unicode Character Database, Version 10.0.0

### Unicode Character Database

```

UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE
Unicode Data Files include all data files under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/,
http://source.icu-project.org/repos/icu/, and
http://www.unicode.org/utility/trac/browser/.

Unicode Data Files do not include PDF online code charts under the
directory http://www.unicode.org/Public/.

Software includes any source code published in the Unicode Standard
or under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/,
http://source.icu-project.org/repos/icu/, and
http://www.unicode.org/utility/trac/browser/.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU
 UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright  1991-2018 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
```

copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b)
this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.

```
Copyright (c) 1999-2003 David Corcoran <corcoran@musclecard.com>
Copyright (c) 2001-2011 Ludovic Rousseau <ludovic.rousseau@free.fr>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
  derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN
 NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
```

NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Some files are under GNU GPL v3 or any later version
- doc/example/pcsc_demo.c
- the files in src/spy/
- the files in UnitaryTests/

Copyright (C) 2003-2014 Ludovic Rousseau

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Files src/auth.c and src/auth.h are:
* Copyright (C) 2013 Red Hat
*
* All rights reserved.
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
*
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
*
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
*
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
* "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
* LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
* FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
* COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,

* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
* BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
* OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
* AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
* OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
* THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
* DAMAGE.
*
* Author: Nikos Mavrogiannopoulos <nmav@redhat.com>

Files src/simclist.c and src/simclist.h are:
* Copyright (c) 2007,2008,2009,2010,2011 Mij <mij@bitchx.it>
*
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby
 granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
* WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
* MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
* ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
* ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
* OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
## Mozilla Elliptic Curve Cryptography (ECC)

### Mozilla ECC Notice

This notice is provided with respect to Elliptic Curve Cryptography,
which is included with JRE, JDK, and OpenJDK.

You are receiving a
[copy](http://hg.openjdk.java.net/jdk9/jdk9/jdk/file/tip/src/jdk.crypto.ec/share/native/libsunec/impl)
of the Elliptic Curve Cryptography library in source
form with the JDK and OpenJDK source distributions, and as object code in
the JRE & JDK runtimes.
<pre>
In the case of the JRE & JDK runtimes, the terms of the Oracle license do
NOT apply to the Elliptic Curve Cryptography library; it is licensed under the
following license, separately from Oracle's JDK & JRE.  If you do not wish to
install the Elliptic Curve Cryptography library, you may delete the
Elliptic Curve Cryptography library:
  - On Solaris and Linux systems: delete $(JAVA_HOME)/lib/libsunec.so
  - On Mac OSX systems: delete $(JAVA_HOME)/lib/libsunec.dylib
  - On Windows systems: delete $(JAVA_HOME)\bin\sunec.dll

</pre>

###
Written Offer for Source Code
<pre>

For third party technology that you receive from Oracle in binary form
which is licensed under an open source license that gives you the right
to receive the source code for that binary, you can obtain a copy of
the applicable source code from this page:
http://hg.openjdk.java.net/jdk9/jdk9/jdk/file/tip/src/jdk.crypto.ec/share/native/libsunec/impl

If the source code for the technology was not provided to you with the
binary, you can also receive a copy of the source code on physical
media by submitting a written request to:

Oracle America, Inc.
Attn: Associate General Counsel,
Development and Engineering Legal
500 Oracle Parkway, 10th Floor
Redwood Shores, CA 94065

Or, you may send an email to Oracle using the form at:

http://www.oracle.com/goto/opensourcecode/request

Your request should include:

- The name of the component or binary file(s) for which you are requesting the source code

- The name and version
number of the Oracle product containing the binary

- The date you received the Oracle product

- Your name

- Your company name (if applicable)

- Your return mailing address and email and

- A telephone number in the event we need to reach you.

We may charge you a fee to cover the cost of physical media and processing.
Your request must be sent (i) within three (3) years of the date you
received the Oracle product that included the component or binary
file(s) that are the subject of your request, or (ii) in the case of
code licensed under the GPL v3, for as long as Oracle offers spare

parts or customer support for that product model.

</pre>

### LGPL 2.1
<pre>

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document,
but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not
price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library
after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must
be
consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public
License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages

are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs
enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed
under the terms of
this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under

copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface
definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a
fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses

the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in
the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole
must be on the terms of
this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary
GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all

subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source
code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even
though the source code is not.
Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to
produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work
that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials

specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above

specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or

distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version
number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT
PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU

FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE
WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can
redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims
all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

</pre>
## Little Color Management System (LCMS) v2.15

### LCMS License
<pre>
README.1ST file information

LittleCMS core is released under MIT License

---

Little CMS
Copyright (c) 1998-2023 Marti Maria Saguer

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject
to the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN
NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

---
The below license applies to the following files:
liblcms/cmssm.c

Copyright 2001, softSurfer (www.softsurfer.com)

This code may be freely used and modified for any purpose
providing that this copyright notice is included with it.
SoftSurfer makes no warranty for this code, and cannot be held
liable for any real or imagined damage resulting from its use.
Users of this code must verify correctness for their application.

</pre>

### AUTHORS File Information
```

Main Author
---
Marti Maria

Contributors
---
Bob Friesenhahn
Kai-Uwe Behrmann
Stuart Nixon
Jordi Vilar
Richard Hughes
Auke Nauta
Chris Evans (Google)
Lorenzo Ridolfi
Robin Watts (Artifex)
Shawn Pedersen
Andrew Brygin
Samuli
 Suominen
Florian Hch
Aurelien Jarno
Claudiu Cebuc
Michael Vhrel (Artifex)
Michal Cihar
Daniel Kaneider
Mateusz Jurczyk (Google)
Paul Miller
Sbastien Lon
Christian Schmitz
XhmikosR
Stanislav Brabec (SuSe)
Leonhard Gruenschloss (Google)
Patrick Noffke
Christopher James Halse Rogers
```

John Hein
Thomas Weber (Debian)
Mark Allen
Noel Carboni
Sergei Trofimovic
Philipp Knechtges
Amyspark
Lovell Fuller
Eli Schwartz

Special Thanks
---
Artifex software
AlienSkin software
libVIPS
Jan Morovic
Jos Vernon (WebSupergoo)
Harald Schneider (Maxon)
Christian Albrecht
Dimitrios Anastassakis
Lemke Software
Tim Zaman

```
## xwd v1.0.7

### xwd utility
<pre>

This is the copyright for the files in src/java.desktop/unix/native/libawt_xawt:
list.h, multiVis.h, wsutils.h, list.c, multiVis.c

Copyright 1994 Hewlett-Packard Co.
Copyright 1996, 1998  The Open Group

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation.

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR
```

OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from The Open Group.

</pre>
## The FreeType Project: Freetype v2.12.1

### FreeType Notice

```
FreeType comes with two licenses from which you can choose the one
which fits your needs best.

  The FreeType License (FTL) is the most commonly used one. It is
  a BSD-style license with a credit clause and thus compatible with
  the GNU Public License (GPL) version 3, but not with the
  GPL version 2.

  The GNU General Public License (GPL), version 2. Use it for all
  projects which use the GPLv2 also, or which need a license
  compatible to the GPLv2.

```

### FreeType License
```

Copyright (C) 1996-2022 by David Turner, Robert Wilhelm, and Werner Lemberg.
Copyright (C) 2007-2022 by Dereg Clegg and Michael Toftdal.
Copyright (C) 1996-2022 by Just van Rossum, David Turner, Robert Wilhelm, and Werner Lemberg.
Copyright (C) 2004-2022 by Masatake YAMATO and Redhat K.K.
Copyright (C) 2007-2022 by Derek Clegg and Michael Toftdal.
Copyright (C) 2007-2022 by David Turner.
Copyright (C) 2022 by David Turner,
Robert Wilhelm, Werner Lemberg, and Moazin Khatti.
Copyright (C) 2007-2022 by Rahul Bhalerao <rahul.bhalerao@redhat.com>, <b.rahul.pm@gmail.com>.
Copyright (C) 2008-2022 by David Turner, Robert Wilhelm, Werner Lemberg, and suzuki toshiya.
Copyright (C) 2019-2022 by Nikhil Ramakrishnan, David Turner, Robert Wilhelm, and Werner Lemberg.
Copyright (C) 2009-2022 by Oran Agra and Mickey Gabel.
Copyright (C) 2004-2022 by David Turner, Robert Wilhelm, Werner Lemberg, and George Williams.
Copyright (C) 2004-2022 by Masatake YAMATO, Red Hat K.K.,
```

Copyright (C) 2003-2022 by Masatake YAMATO, Redhat K.K.,
Copyright (C) 2013-2022 by Google, Inc.
Copyright (C) 2018-2022 by David Turner, Robert Wilhelm, Dominik Rttsches, and Werner Lemberg.
Copyright (C) 2005-2022 by David Turner, Robert Wilhelm, and Werner Lemberg.
Copyright 2013 by Google, Inc.

The FreeType Project LICENSE
---

2006-Jan-27

Copyright 1996-2002, 2006 by
David Turner, Robert Wilhelm, and Werner Lemberg

Introduction
==========

The FreeType Project is distributed in several archive packages; some of them may contain, in addition to the FreeType font engine, various tools and contributions which rely on, or relate to, the FreeType Project.

This license applies to all files found in such packages, and which do not fall under their own explicit license. The license affects thus the FreeType font engine, the test programs, documentation and makefiles, at the very least.

This license was inspired by the BSD, Artistic, and IJG (Independent JPEG Group) licenses, which all encourage inclusion and use of free software in commercial and freeware products alike. As a consequence, its main points are that:

- We don't promise that this software works. However, we will be interested in any kind of bug reports. (`as is' distribution)

- You can use this software for whatever you want, in parts or full form, without having to pay us. (`royalty-free' usage)

- You may not pretend that you wrote this software. If you use it, or only parts of it, in a program, you must acknowledge somewhere in your documentation that you have used the FreeType code. (`credits')

We specifically permit and encourage the inclusion of this

software, with or without modifications, in commercial products.
We disclaim all warranties covering The FreeType Project and
assume no liability related to The FreeType Project.

Finally, many people asked us for a preferred form for a
credit/disclaimer to use in compliance with this license. We thus
encourage you to use the following text:

```
"""
  Portions of this software are copyright <year> The FreeType
  Project (www.freetype.org).  All rights reserved.
"""
```

Please replace <year> with the
value from the FreeType version you
actually use.

Legal Terms
==========

0. Definitions
---

Throughout this license, the terms `package', `FreeType Project',
and `FreeType archive' refer to the set of files originally
distributed by the authors (David Turner, Robert Wilhelm, and
Werner Lemberg) as the `FreeType Project', be they named as alpha,
beta or final release.

`You' refers to the licensee, or person using the project, where
`using' is a generic term including compiling the project's source
code as well as linking it to form a `program' or `executable'.
This program is referred to as `a program using the FreeType
engine'.

This license applies to all files distributed in the original
FreeType Project, including all source code, binaries and
documentation, unless otherwise stated in the file in its
original, unmodified form as distributed in the original archive.
If you are unsure whether
or not a particular file is covered by
this license, you must contact us to verify this.

The FreeType Project is copyright (C) 1996-2000 by David Turner,
Robert Wilhelm, and Werner Lemberg. All rights reserved except as
specified below.

1. No Warranty

---

THE FREETYPE PROJECT IS PROVIDED `AS IS' WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL ANY OF THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY DAMAGES CAUSED BY THE USE OR THE INABILITY TO USE, OF THE FREETYPE PROJECT.

2. Redistribution

---

This license grants a worldwide, royalty-free, perpetual and irrevocable right and license to use, execute, perform, compile, display, copy, create derivative works of, distribute and sublicense the FreeType Project (in both source and object code forms) and derivative
works thereof for any purpose; and to
authorize others to exercise some or all of the rights granted herein, subject to the following conditions:

- Redistribution of source code must retain this license file (`FTL.TXT') unaltered; any additions, deletions or changes to the original files must be clearly indicated in accompanying documentation. The copyright notices of the unaltered, original files must be preserved in all copies of source files.

- Redistribution in binary form must provide a disclaimer that states that the software is based in part of the work of the FreeType Team, in the distribution documentation. We also encourage you to put an URL to the FreeType web page in your documentation, though this isn't mandatory.

These conditions apply to any software derived from or based on the FreeType Project, not just the unmodified files. If you use our work,
you must acknowledge us. However, no fee need be paid
to us.

3. Advertising

---

Neither the FreeType authors and contributors nor you shall use the name of the other for commercial, advertising, or promotional purposes without specific prior written permission.

We suggest, but do not require, that you use one or more of the following phrases to refer to this software in your documentation or advertising materials: `FreeType Project', `FreeType Engine', `FreeType library', or `FreeType Distribution'.

As you have not signed this license, you are not required to accept it. However, as the FreeType Project is copyrighted material, only this license, or another one contracted with the authors, grants you the right to use, distribute, and modify it. Therefore, by using, distributing, or modifying the FreeType Project, you indicate that you understand and accept all the terms of this license.

4. Contacts
---

There are two mailing lists related to FreeType:

o freetype@nongnu.org

Discusses general use and applications of FreeType, as well as future and wanted additions to the library and distribution. If you are looking for support, start in this list if you haven't found anything to help you in the documentation.

o freetype-devel@nongnu.org

Discusses bugs, as well as engine internals, design issues, specific licenses, porting, etc.

Our home page can be found at

http://www.freetype.org

```

### GPL v2

```
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
```
```

Preamble

The licenses for most software are designed to take away your freedom to share and change it.
By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any

patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any

part thereof, to be licensed as a whole at no charge to all third
parties under the terms of this License.

c) If the modified program normally reads commands interactively
when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
announcement including an appropriate
copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each
and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable
source code, which must be distributed under the terms of Sections
1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid
for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete

machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the

original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the
following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to
the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample;

alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs.  If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library.  If this is what you want to do, use the GNU Library General
Public License instead of this License.

```

### Additional Freetype Attributions
```

---
The below license applies to the following files:
libfreetype/src/psaux/psarrst.c
libfreetype/src/psaux/psarrst.h
libfreetype/src/psaux/psblues.c
libfreetype/src/psaux/psblues.h
libfreetype/src/psaux/pserror.c
libfreetype/src/psaux/pserror.h
libfreetype/src/psaux/psfixed.h
libfreetype/src/psaux/psfont.c
libfreetype/src/psaux/psfont.h
libfreetype/src/psaux/psft.c
libfreetype/src/psaux/psft.h
libfreetype/src/psaux/psglue.h
libfreetype/src/psaux/pshints.c
libfreetype/src/psaux/pshints.h
libfreetype/src/psaux/psintrp.c
libfreetype/src/psaux/psintrp.h
libfreetype/src/psaux/psread.c
libfreetype/src/psaux/psread.h
libfreetype/src/psaux/psstack.c
libfreetype/src/psaux/psstack.h
libfreetype/src/psaux/pstypes.h

Copyright
2006-2014 Adobe Systems Incorporated.

This software, and all works of authorship, whether in source or
object code form as indicated by the copyright notice(s) included

herein (collectively, the "Work") is made available, and may only be
used, modified, and distributed under the FreeType Project License,
LICENSE.TXT.  Additionally, subject to the terms and conditions of the
FreeType Project License, each contributor to the Work hereby grants
to any individual or legal entity exercising permissions granted by
the FreeType Project License and this section (hereafter, "You" or
"Your") a perpetual, worldwide, non-exclusive,
 no-charge,
royalty-free, irrevocable (except as stated in this section) patent
license to make, have made, use, offer to sell, sell, import, and
otherwise transfer the Work, where such license applies only to those
patent claims licensable by such contributor that are necessarily
infringed by their contribution(s) alone or by combination of their
contribution(s) with the Work to which such contribution(s) was
submitted.  If You institute patent litigation against any entity
(including a cross-claim or counterclaim in a lawsuit) alleging that
the Work or a contribution incorporated within the Work constitutes
direct or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate as of
the date such litigation is filed.

By using, modifying, or distributing the Work you indicate that you
have read and understood the terms and conditions of the
FreeType Project License as well as those provided in this section,
and you accept
 them fully.

```

### MIT License
```

---
The below license applies to the following files:
libfreetype/include/freetype/internal/fthash.h
libfreetype/src/base/fthash.c

Copyright 2000 Computing Research Labs, New Mexico State University
Copyright 2001-2015

 Francesco Zappa Nardelli

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the

Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE COMPUTING RESEARCH LAB OR NEW MEXICO STATE UNIVERSITY BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT
OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR
THE USE OR OTHER DEALINGS IN THE SOFTWARE.

```
## PC/SC Lite v1.9.5

### PC/SC Lite License
<pre>

The main parts of the code are using the BSD-like licence bellow:

Copyright (c) 1999-2003 David Corcoran <corcoran@linuxnet.com>
Copyright (c) 2001-2011 Ludovic Rousseau <ludovic.rousseau@free.fr>
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

  1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
  2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
  3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

Changes to this license can be made only by the copyright author with explicit written consent.

THIS
SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
```

SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Some source code files are using other licences. See the [COPYING](https://salsa.debian.org/rousseau/PCSC/-/blob/master/COPYING) file for details.

</pre>
This is the copyright file
## Harfbuzz v7.0.1

### Harfbuzz License

https://github.com/harfbuzz/harfbuzz/blob/7.0.1/COPYING

<pre>

HarfBuzz is licensed under the so-called "Old MIT" license.  Details follow.
For parts of HarfBuzz that are licensed under different licenses see individual
files names COPYING in subdirectories where applicable.

Copyright  2010-2022  Google, Inc.
Copyright  2018-2020  Ebrahim Byagowi
Copyright  2004-2013  Red Hat, Inc.
Copyright  2019  Facebook, Inc.
Copyright  2007  Chris Wilson
Copyright  2018-2019 Adobe Inc.
Copyright  2006-2023 Behdad Esfahbod
Copyright  1998-2004  David Turner and Werner Lemberg
Copyright  2009  Keith Stribley
Copyright  2018  Khaled Hosny
Copyright  2016  Elie Roux <elie.roux@telecom-bretagne.eu>
Copyright  2016  Igalia S.L.
Copyright  2015  Mozilla Foundation.
Copyright  1999  David Turner
Copyright  2005  Werner Lemberg
Copyright  2013-2015  Alexei Podtelezhnikov
Copyright  2022 Matthias Clasen
Copyright  2011  Codethink Limited

For full copyright notices
 consult the individual files in the package.

Permission is hereby granted, without written agreement and without
license or royalty fees, to use, copy, modify, and distribute this
software and its documentation for any purpose, provided that the
above copyright notice and the following two paragraphs appear in
all copies of this software.

IN NO EVENT SHALL THE COPYRIGHT HOLDER BE LIABLE TO ANY PARTY FOR
DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE AND ITS DOCUMENTATION, EVEN
IF THE COPYRIGHT HOLDER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

THE COPYRIGHT HOLDER SPECIFICALLY DISCLAIMS ANY WARRANTIES, INCLUDING,
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE.  THE SOFTWARE PROVIDED HEREUNDER IS
ON AN "AS IS" BASIS, AND THE COPYRIGHT HOLDER HAS NO OBLIGATION TO
PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

All source code, except for one section,
 is licensed as above. The one
exception is licensed with a slightly different MIT variant:
The contents of this directory are licensed under the following terms:

---
The below license applies to the following files:
libharfbuzz/hb-ucd.cc

Copyright (C) 2012 Grigori Goronzy <greg@kinoho.net>

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF THIS SOFTWARE.

</pre>

### AUTHORS File Information
```

Behdad Esfahbod
David Corbett
David Turner
Ebrahim Byagowi
Garret Rieger
Jonathan Kew
Khaled Hosny
```

Lars Knoll
Martin Hosken
Owen Taylor
Roderick Sheeter
Roozbeh Pournader
Simon Hausmann
Werner Lemberg

```
Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR
 CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
## Thai Dictionary

### Thai Dictionary License
<pre>

Copyright (C) 1982 The Royal Institute, Thai Royal Government.

Copyright (C) 1998 National Electronics and Computer Technology Center,
National Science and Technology Development Agency,
Ministry of Science Technology and Environment,
```

Thai Royal Government.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
 OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

</pre>
## Apache Santuario v2.3.0

### Apache Santuario Notice
<pre>

 Apache Santuario - XML Security for Java
 Copyright 1999-2021 The Apache Software Foundation

 This product includes software developed at
 The Apache Software Foundation (http://www.apache.org/).

 It was originally based on software copyright (c) 2001, Institute for
 Data Communications Systems, <http://www.nue.et-inf.uni-siegen.de/>.

 The development of this software was partly funded by the European
 Commission in the <WebSig> project in the ISIS Programme.

</pre>

### Apache 2.0 License
<pre>

                                 Apache License
                           Version 2.0, January 2004
                        http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally

submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a

cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that
do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from
the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not
grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless
required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on
behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!)  The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except
 in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

</pre>

ADDITIONAL INFORMATION ABOUT LICENSING

Certain files distributed by Oracle America, Inc. and/or its affiliates are
subject to the following clarification and special exception to the GPLv2,
based on the GNU Project exception for its Classpath libraries, known as the
GNU Classpath Exception.

Note that Oracle includes multiple, independent programs in this software
package.  Some of those programs are provided under licenses deemed
incompatible with the GPLv2 by the Free Software Foundation and others.
For example, the package includes programs licensed under the Apache
License, Version 2.0 and may include FreeType. Such programs are licensed
to you under their original licenses.

Oracle facilitates your further distribution of this package by adding the
Classpath Exception to the necessary parts of its GPLv2 code, which permits
you to use that code in combination with other independent modules not
licensed under the GPLv2. However, note that this would
 not permit you to
commingle code under an incompatible license with Oracle's GPLv2 licensed
code by, for example, cutting and pasting such code into a file also
containing Oracle's GPLv2 licensed code and then distributing the result.

Additionally, if you were to remove the Classpath Exception from any of the
files to which it applies and distribute the result, you would likely be
required to license some or all of the other code in that distribution under
the GPLv2 as well, and since the GPLv2 is incompatible with the license terms
of some items included in the distribution by Oracle, removing the Classpath
Exception could therefore effectively compromise your ability to further
distribute the package.

Failing to distribute notices associated with some files may also create
unexpected legal consequences.

Proceed with caution and we recommend that you obtain the advice of a lawyer
skilled in open source matters before removing the Classpath Exception or
making modifications
 to this package which may subsequently be redistributed
and/or involve the use of third party software.
# This file contains a list of people who've made non-trivial
# contribution to the Google C++ Testing Framework project.  People
# who commit code to the project are encouraged to add their names
# here.  Please keep the list sorted by first names.

Ajay Joshi <jaj@google.com>
Balzs Dn <balazs.dan@gmail.com>
Bharat Mediratta <bharat@menalto.com>
Chandler Carruth <chandlerc@google.com>
Chris Prince <cprince@google.com>
Chris Taylor <taylorc@google.com>
Dan Egnor <egnor@google.com>
Eric Roman <eroman@chromium.org>
Hady Zalek <hady.zalek@gmail.com>
Jeffrey Yasskin <jyasskin@google.com>
Ji Sigursson <joi@google.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keith.ray@gmail.com>
Kenton Varda <kenton@google.com>
Manuel Klimek <klimek@google.com>
Markus Heule <markus.heule@gmail.com>
Mika Raento <mikie@iki.fi>
Mikls Fazekas <mfazekas@szemafor.com>
Pasi Valminen <pasi.valminen@gmail.com>
Patrick Hanna <phanna@google.com>
Patrick Riley <pfr@google.com>
Peter Kaminski <piotrk@google.com>
Preston
 Jackson <preston.a.jackson@gmail.com>
Rainer Klaffenboeck <rainer.klaffenboeck@dynatrace.com>
Russ Cox <rsc@google.com>
Russ Rufer <russ@pentad.com>
Sean Mcafee <eefacm@gmail.com>
Sigurur sgeirsson <siggi@google.com>
Tracy Bialik <tracy@pentad.com>
Vadim Berman <vadimb@google.com>
Vlad Losev <vladl@google.com>
Zhanyong Wan <wan@google.com>
## OASIS PKCS #11 Cryptographic Token Interface v3.0

### OASIS PKCS #11 Cryptographic Token Interface License
<pre>

Copyright  OASIS Open 2020. All Rights Reserved.

All capitalized terms in the following text have the meanings assigned to them in the OASIS Intellectual Property Rights Policy (the "OASIS IPR Policy"). The full Policy may be found at the OASIS website: [http://www.oasis-open.org/policies-guidelines/ipr]

This document and translations of it may be copied and furnished to others, and derivative works that comment on or otherwise explain it or assist in its implementation may be prepared, copied, published, and distributed, in whole or in part, without restriction of any kind, provided that the above copyright notice and this section are included on all such copies and derivative works. However, this document itself may not be modified in any way, including by removing the copyright notice or references to OASIS, except as needed for the purpose of developing any
document or deliverable produced by an OASIS Technical Committee (in which case the rules applicable to copyrights, as set forth in the OASIS IPR Policy, must be followed) or as required to translate it into languages other than English.

The limited permissions granted above are perpetual and will not be revoked by OASIS or its successors or assigns.

This document and the information contained herein is provided on an "AS IS" basis and OASIS DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY THAT THE USE OF THE INFORMATION HEREIN WILL NOT INFRINGE ANY OWNERSHIP RIGHTS OR ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. OASIS AND ITS MEMBERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THIS DOCUMENT OR ANY PART THEREOF.

[OASIS requests that any OASIS Party or any other party that believes it has patent claims that would necessarily be infringed by implementations
of this OASIS Standards Final Deliverable, to notify OASIS TC Administrator and provide an indication of its willingness to grant patent licenses to such patent claims in a manner consistent with the IPR Mode of the OASIS Technical Committee that produced this deliverable.]

[OASIS invites any party to contact the OASIS TC Administrator if it is aware of a claim of ownership of any patent claims that would necessarily be infringed by implementations of this OASIS Standards

Final Deliverable by a patent holder that is not willing to provide a license to such patent claims in a manner consistent with the IPR Mode of the OASIS Technical Committee that produced this OASIS Standards Final Deliverable. OASIS may include such claims on its website, but disclaims any obligation to do so.]

[OASIS takes no position regarding the validity or scope of any intellectual property or other rights that might be claimed to pertain to the implementation or use of the technology
described in this OASIS
Standards Final Deliverable or the extent to which any license under such rights might or might not be available; neither does it represent that it has made any effort to identify any such rights. Information on OASIS' procedures with respect to rights in any document or deliverable produced by an OASIS Technical Committee can be found on the OASIS website. Copies of claims of rights made available for publication and any assurances of licenses to be made available, or the result of an attempt made to obtain a general license or permission for the use of such proprietary rights by implementers or users of this OASIS Standards Final Deliverable, can be obtained from the OASIS TC Administrator. OASIS makes no representation that any information or list of intellectual property rights will at any time be complete, or that any claims in such list are, in fact, Essential Claims.]

</pre>
## Cryptix AES v3.2.0

### Cryptix General License
<pre>

Cryptix General License

Copyright (c) 1995-2005 The Cryptix Foundation Limited.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE CRYPTIX FOUNDATION LIMITED AND

CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE CRYPTIX FOUNDATION LIMITED OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN
IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

</pre>
## International Components for Unicode (ICU4J) v60.2

### ICU4J License

```

UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE
Unicode Data Files include all data files under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/,
http://source.icu-project.org/repos/icu/, and
http://www.unicode.org/utility/trac/browser/.

Unicode Data Files do not include PDF online code charts under the
directory http://www.unicode.org/Public/.

Software includes any source code published in the Unicode Standard
or under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/,
http://source.icu-project.org/repos/icu/, and
http://www.unicode.org/utility/trac/browser/.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT,
AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE
```

Copyright  1991-2018 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission
 notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.

```
## libpng v1.6.38

### libpng License
<pre>

COPYRIGHT NOTICE, DISCLAIMER, and LICENSE
=========================================

PNG Reference Library License version 2
---------------------------------------

Copyright (c) 1995-2022 The PNG Reference Library Authors.
Copyright (c) 2018-2022 Cosmin Truta
Copyright (c) 1998-2018 Glenn Randers-Pehrson
```

Copyright (c) 1996-1997 Andreas Dilger
Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

The software is supplied "as is", without warranty of any kind,
express or implied, including, without limitation, the warranties
of merchantability, fitness for a particular purpose, title, and
non-infringement.  In no event shall the Copyright owners, or
anyone distributing the software, be liable for any damages or
other liability, whether in contract, tort or otherwise, arising
from, out of, or in connection with the software, or the use or
other dealings in the software, even if advised of the possibility
of such damage.

Permission is hereby
 granted to use, copy, modify, and distribute
this software, or portions hereof, for any purpose, without fee,
subject to the following restrictions:

1. The origin of this software must not be misrepresented; you
   must not claim that you wrote the original software.  If you
   use this software in a product, an acknowledgment in the product
   documentation would be appreciated, but is not required.

2. Altered source versions must be plainly marked as such, and must
   not be misrepresented as being the original software.

3. This Copyright notice may not be removed or altered from any
   source or altered source distribution.

PNG Reference Library License version 1 (for libpng 0.5 through 1.6.35)
---

libpng versions 1.0.7, July 1, 2000, through 1.6.35, July 15, 2018 are
Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson, are
derived from libpng-1.0.6, and are distributed according to the
 same
disclaimer and license as libpng-1.0.6 with the following individuals
added to the list of Contributing Authors:

   Simon-Pierre Cadieux
   Eric S. Raymond
   Mans Rullgard
   Cosmin Truta
   Gilles Vollant
   James Yu
   Mandar Sahastrabuddhe
   Google Inc.

Vadim Barkov

and with the following additions to the disclaimer:

There is no warranty against interference with your enjoyment of the library or against infringement. There is no warranty that our efforts or the library will fulfill any of your particular purposes or needs. This library is provided with all faults, and the entire risk of satisfactory quality, performance, accuracy, and effort is with the user.

Some files in the "contrib" directory and some configure-generated files that are distributed with libpng have other copyright owners, and are released under other open source licenses.

libpng versions 0.97, January 1998, through 1.0.6, March 20, 2000, are Copyright (c) 1998-2000
Glenn Randers-Pehrson, are derived from
libpng-0.96, and are distributed according to the same disclaimer and license as libpng-0.96, with the following individuals added to the list of Contributing Authors:

Tom Lane
Glenn Randers-Pehrson
Willem van Schaik

libpng versions 0.89, June 1996, through 0.96, May 1997, are Copyright (c) 1996-1997 Andreas Dilger, are derived from libpng-0.88, and are distributed according to the same disclaimer and license as libpng-0.88, with the following individuals added to the list of Contributing Authors:

John Bowler
Kevin Bracey
Sam Bushell
Magnus Holmgren
Greg Roelofs
Tom Tanner

Some files in the "scripts" directory have other copyright owners, but are released under this license.

libpng versions 0.5, May 1995, through 0.88, January 1996, are Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

For the purposes of this copyright and license, "Contributing Authors" is defined as the following set of individuals:

Andreas Dilger
Dave Martindale
Guy Eric Schalnat
Paul Schmidt
Tim Wegner

The PNG Reference Library is supplied "AS IS". The Contributing Authors and Group 42, Inc. disclaim all warranties, expressed or implied, including, without limitation, the warranties of merchantability and of fitness for any purpose. The Contributing Authors and Group 42, Inc. assume no liability for direct, indirect, incidental, special, exemplary, or consequential damages, which may result from the use of the PNG Reference Library, even if advised of the possibility of such damage.

Permission is hereby granted to use, copy, modify, and distribute this source code, or portions hereof, for any purpose, without fee, subject to the following restrictions:

1. The origin of this source code must not be misrepresented.

2. Altered versions must be plainly marked as such and must not be misrepresented as being the original source.

3. This Copyright notice may not be removed or
altered from any
source or altered source distribution.

The Contributing Authors and Group 42, Inc. specifically permit, without fee, and encourage the use of this source code as a component to supporting the PNG file format in commercial products. If you use this source code in a product, acknowledgment is not required but would be appreciated.

TRADEMARK
=========

The name "libpng" has not been registered by the Copyright owners as a trademark in any jurisdiction. However, because libpng has been distributed and maintained world-wide, continually since 1995, the Copyright owners claim "common-law trademark protection" in any jurisdiction where common-law trademark is recognized.

</pre>

### AUTHORS File Information
```
PNG REFERENCE LIBRARY AUTHORS
```

==========

This is the list of PNG Reference Library ("libpng") Contributing
Authors, for copyright and licensing purposes.

* Andreas Dilger
* Cosmin Truta
* Dave Martindale
* Eric S. Raymond
* Gilles Vollant
 * Glenn Randers-Pehrson
* Greg Roelofs
* Guy Eric Schalnat
* James Yu
* John Bowler
* Kevin Bracey
* Magnus Holmgren
* Mandar Sahastrabuddhe
* Mans Rullgard
* Matt Sarett
* Mike Klein
* Pascal Massimino
* Paul Schmidt
* Qiang Zhou
* Sam Bushell
* Samuel Williams
* Simon-Pierre Cadieux
* Tim Wegner
* Tom Lane
* Tom Tanner
* Vadim Barkov
* Willem van Schaik
* Zhijie Liang
* Arm Holdings
  - Richard Townsend
* Google Inc.
  - Matt Sarett
  - Mike Klein
  - Dan Field
  - Sami Boukortt

The build projects, the build scripts, the test scripts, and other
files in the "ci", "projects", "scripts" and "tests" directories, have
other copyright owners, but are released under the libpng license.

Some files in the "contrib" directory, and some tools-generated files
that are distributed with libpng, have other copyright owners, and are
released under other open source licenses.

```

All images in this directory are copyright 1995 by Jeff Dinkins.
## JRuby Joni v2.1.16

### MIT License
<pre>

Copyright (c) 2017 JRuby Team

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING
 FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

</pre>
## GIFLIB v5.2.1

### GIFLIB License
```

The GIFLIB distribution is Copyright (c) 1997  Eric S. Raymond

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR

IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

https://sourceforge.net/p/giflib/code/ci/master/tree/openbsd-reallocarray.c

Copyright (c) 2008 Otto Moerbeek <otto@drijf.net>
SPDX-License-Identifier: MIT

All images in this directory are copyright 1995 by Jeff Dinkins.
Unauthorized reproduction is prohibited.

For more information about Jeff's photographs, please see:
http://www.theFixx.org/Jeff
## Unicode Common Local Data Repository (CLDR) v33

### CLDR License

```

UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE
Unicode Data Files include all data files under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/,
http://source.icu-project.org/repos/icu/, and
http://www.unicode.org/utility/trac/browser/.

Unicode Data Files do not include PDF online code charts under the
directory http://www.unicode.org/Public/.

Software includes any source code published in the Unicode Standard
or under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/,
http://source.icu-project.org/repos/icu/, and
http://www.unicode.org/utility/trac/browser/.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT,
AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
```

IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright  1991-2018 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission
 notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.

```
```

## Mozilla Public Suffix List

### Public Suffix Notice

```
```

You are receiving a copy of the Mozilla Public Suffix List in the following
file: <java-home>/lib/security/public_suffix_list.dat. The terms of the
Oracle license do NOT apply to this file; it is licensed under the
Mozilla Public License 2.0, separately from the Oracle programs you receive.
If you do not wish to use the Public Suffix List, you may remove the

<java-home>/lib/security/public_suffix_list.dat file.

The Source Code of this file is available under the
Mozilla Public License, v. 2.0 and is located at
https://raw.githubusercontent.com/publicsuffix/list/3c213aab32b3c014f171b1673d4ce9b5cd72bf1c/public_suffix_list.dat.
If a copy of the MPL was not distributed with this file, you can obtain one
at https://mozilla.org/MPL/2.0/.

Software distributed under the License is distributed on an "AS IS" basis,
WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License
for the specific language governing rights and limitations
 under the License.
```

### MPL v2.0
```
Mozilla Public License Version 2.0
==================================

1. Definitions
--------------

1.1. "Contributor"
  means each individual or legal entity that creates, contributes to
  the creation of, or owns Covered Software.

1.2. "Contributor Version"
  means the combination of the Contributions of others (if any) used
  by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
  means Covered Software of a particular Contributor.

1.4. "Covered Software"
  means Source Code Form to which the initial Contributor has attached
  the notice in Exhibit A, the Executable Form of such Source Code
  Form, and Modifications of such Source Code Form, in each case
  including portions thereof.

1.5. "Incompatible With Secondary Licenses"
  means

  (a) that the initial Contributor has attached the notice described
      in Exhibit B to the Covered Software; or

  (b) that the Covered
```
```

Software was made available under the terms of
version 1.1 or earlier of the License, but not also under the
terms of a Secondary License.

1.6. "Executable Form"
means any form of the work other than Source Code Form.

1.7. "Larger Work"
means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. "License"
means this document.

1.9. "Licensable"
means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. "Modifications"
means any of the following:

(a) any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

(b) any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor
means any patent
claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"
means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"
means the form of the work preferred for making modifications.

1.14. "You" (or "Your")

means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect,
to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions
---

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for
each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

(a) for any code that a Contributor has removed from Covered Software; or

(b) for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its

Contributions with other software (except as part of its Contributor Version); or

(c) under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section
3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities
---

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms
of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3.
Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known
factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support,

indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation
---

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination
---

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

```
************************************************************************
*                                                                      *
*                                                                      *
*  6. Disclaimer of Warranty                                           *
*  -------------------------                                           *
*                                                                      *
*  Covered Software is provided under this License on an "as is"       *
*  basis, without warranty of any kind, either expressed, implied, or  *
*  statutory, including, without limitation, warranties that the       *
*  Covered Software is free of defects, merchantable, fit for a        *
*  particular purpose or non-infringing. The entire risk as to the     *
*  quality and performance of the Covered Software is with You.        *
*  Should any Covered Software prove defective in any respect, You     *
*  (not any Contributor) assume the cost of any necessary servicing,   *
*  repair, or correction. This disclaimer of warranty constitutes an   *
*
 essential part of this License. No use of any Covered Software is   *
*  authorized under this License except under this disclaimer.         *
*                                                                      *
************************************************************************

************************************************************************
*                                                                      *
*  7. Limitation of Liability                                          *
*  --------------------------                                          *
*                                                                      *
*  Under no circumstances and under no legal theory, whether tort      *
*  (including negligence), contract, or otherwise, shall any           *
*  Contributor, or anyone who distributes Covered Software as          *
*  permitted above, be liable to You for any direct, indirect,         *
*  special, incidental, or consequential damages of any
 character      *
*  including, without limitation, damages for lost profits, loss of    *
*  goodwill, work stoppage, computer failure or malfunction, or any    *
*  and all other commercial damages or losses, even if such party      *
*  shall have been informed of the possibility of such damages. This   *
*  limitation of liability shall not apply to liability for death or   *
*  personal injury resulting from such party's negligence to the       *
*  extent applicable law prohibits such limitation. Some               *
*  jurisdictions do not allow the exclusion or limitation of           *
*  incidental or consequential damages, so this exclusion and          *
*  limitation may not apply to You.                                    *
*                                                                      *
************************************************************************

8. Litigation
-------------
```

Any litigation relating to this License may be brought only in the courts
of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

9. Miscellaneous
---

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License
---

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License.
Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses

If You choose to distribute Source Code Form that is Incompatible With

Secondary Licenses under the terms of this version of the License, the
notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
---

This Source Code Form is subject to the terms of the Mozilla Public
License, v. 2.0. If a copy of the MPL was not distributed with this
file, You can obtain one at https://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular
file, then You may include the notice in a location (such as a LICENSE
file in a relevant directory) where a recipient would be likely to look
for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice
---

This Source Code Form is "Incompatible With Secondary Licenses", as
defined by the Mozilla Public License, v. 2.0.

```
Copyright (c) %YEARS% Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.
## c-libutl 20160225

### c-libutl License
```

This software is distributed under the terms of the BSD license.

== BSD LICENSE ==========

(C) 2009 by Remo Dentato (rdentato@gmail.com)

Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT
 SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

http://opensource.org/licenses/bsd-license.php

```
## Apache Xerces v2.12.2

### Apache Xerces Notice
<pre>
  ============================================================================
  == NOTICE file corresponding to section 4(d) of the Apache License,    ==
  == Version 2.0, in this case for the Apache Xerces Java distribution.  ==
  ============================================================================

  Apache Xerces Java
  Copyright 1999-2022 The Apache Software Foundation

  This product includes software developed at
  The Apache Software Foundation (http://www.apache.org/).

  Portions of this software were originally based on the following:
```

- software copyright (c) 1999, IBM Corporation., http://www.ibm.com.
- software copyright (c) 1999, Sun Microsystems., http://www.sun.com.
- voluntary contributions made by Paul Eng on behalf of the
Apache Software Foundation that were originally developed at iClick, Inc.,
software copyright (c) 1999.
</pre>

### Apache 2.0 License
<pre>

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean
an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a

copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work
of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work,
but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make,
have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You

institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with

the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability

incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should
be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

</pre>
## Pako v1.0

### Pako License
<pre>
Copyright (C) 2014-2017 by Vitaly Puzrin and Andrei Tuputcyn

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
(C) 1995-2013 Jean-loup Gailly and Mark Adler
(C) 2014-2017 Vitaly Puzrin and Andrey Tupitsin

This software is provided 'as-is', without any express or implied
warranty. In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
claim that you wrote the original software. If you use this software
in a product, an acknowledgment in the product documentation would be
appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
misrepresented as being the original software.
3. This notice may not be removed or altered from any
source distribution.

</pre>
## IAIK (Institute for Applied Information Processing and Communication) PKCS#11 wrapper files v1

### IAIK License
<pre>

Copyright (c) 2002 Graz University of Technology. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this
list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

3. The end-user documentation included with the redistribution, if any, must
include the following acknowledgment:

"This product includes software developed by IAIK of Graz University of Technology."

Alternately, this acknowledgment may appear in the software itself, if and wherever such third-party
acknowledgments normally appear.

4. The names "Graz University of Technology" and "IAIK of Graz University of Technology" must not be used to endorse or promote products derived from this software without prior written permission.

5. Products derived from this software may not be called "IAIK PKCS Wrapper", nor may "IAIK" appear in their name, without prior written permission of Graz University of Technology.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE LICENSOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

</pre>
UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE

Unicode Data Files include all data files under the directories http://www.unicode.org/Public/, http://www.unicode.org/reports/, and http://www.unicode.org/cldr/data/. Unicode Data Files do not include PDF online code charts under the directory http://www.unicode.org/Public/. Software includes any source code published in the Unicode Standard or under the directories http://www.unicode.org/Public/, http://www.unicode.org/reports/, and http://www.unicode.org/cldr/data/.

NOTICE TO USER: Carefully read the following legal agreement. BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"), YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE TERMS AND CONDITIONS OF THIS AGREEMENT. IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright 1991-2016 Unicode,
Inc. All rights reserved. Distributed under
the Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining a
copy of the Unicode data files and any associated documentation (the "Data
Files") or Unicode software and any associated documentation (the "Software")
to deal in the Data Files or Software without restriction, including without
limitation the rights to use, copy, modify, merge, publish, distribute, and/or
sell copies of the Data Files or Software, and to permit persons to whom the
Data Files or Software are furnished to do so, provided that (a) the above
copyright notice(s) and this permission notice appear with all copies of the
Data Files or Software, (b) both the above copyright notice(s) and this
permission notice appear in associated documentation, and (c) there is clear
notice in each modified Data File or in the Software as well as in the
documentation associated with the Data File(s) or Software
that the data or
software has been modified.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD
PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN
THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR
PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS
ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE
DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall
not be used in advertising or otherwise to promote the sale, use or other
dealings in these Data Files or Software without prior written authorization
of the copyright holder.
The GIFLIB distribution is Copyright (c) 1997 Eric S. Raymond

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE

AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT
OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
## JSZip v3.7.1

JSZip is dual licensed. You may use it under the MIT license *or* the GPLv3 license.

### The MIT License
```
Copyright (c) 2009-2016 Stuart Knightley, David Duponchel, Franz Buchinger, Antnio Afonso

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

### GPL version 3
```
                    GNU GENERAL PUBLIC LICENSE
                       Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

                            Preamble

 The GNU General Public License is a free, copyleft license for
software and other kinds of works.
```

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those

products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the
GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making
available to the
public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A
"Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means
all
the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding

Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not

used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is

available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided

you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer
product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source
conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates

for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or

authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover,

your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that

any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether
already acquired or
hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make
such an agreement or commitment not to enforce a
patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with

a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent
license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that
obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,

but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY

GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING
BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS
```

## Double-conversion v1.1.5

### Double-conversion License

https://raw.githubusercontent.com/google/double-conversion/master/LICENSE

<pre>

Copyright 2006-2011, the V8 project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
 notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
 copyright notice, this list of conditions and the following
 disclaimer in the documentation and/or other materials provided
 with the distribution.
* Neither the name of Google Inc. nor the names of its
 contributors may be used to endorse or promote products derived
 from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING,
BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
```

SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

</pre>
## jQuery UI v1.12.1

### jQuery UI License
```
Copyright jQuery Foundation and other contributors, https://jquery.org/

This software consists of voluntary contributions made by many
individuals. For exact contribution history, see the revision history
available at https://github.com/jquery/jquery-ui

The following license applies to all parts of this software except as
documented below:

====

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT
 WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====

Copyright and related rights for sample code are waived via CC0. Sample
code is defined as all source code contained within the demos directory.
```

CC0: http://creativecommons.org/publicdomain/zero/1.0/

====

All files located in the node_modules and external directories are
externally maintained libraries used by this software which have their
own licenses; we recommend you read them, as their terms may differ from
the terms above.

```
## zlib v1.2.13

### zlib License
<pre>

Copyright (C) 1995-2022 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied
warranty.  In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
  claim that you wrote the original software. If you use this software
  in a product, an acknowledgment in the product documentation would be
  appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
  misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

</pre>
## Eastman Kodak Company: Portions of color management and imaging software

### Eastman Kodak Notice
<pre>
Portions Copyright Eastman Kodak Company 1991-2003
</pre>
Copyright (c) %YEARS% Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
```

published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact
 Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.
## DOM Level 3 Core Specification v1.0

### W3C Software Notice
<pre>
Copyright  2004 World Wide Web Consortium, (Massachusetts Institute of Technology,
European Research Consortium for Informatics and Mathematics, Keio University).
All Rights Reserved.

The DOM bindings are published under the W3C Software Copyright Notice and License.
The software license requires "Notice of any changes or modifications to the W3C
files, including the date changes were made." Consequently, modified versions of
the DOM bindings must document that they do not conform to the W3C standard; in the
case of the IDL definitions, the pragma prefix can no longer be 'w3c.org'; in the
case of the Java language binding, the package names can no longer be in the
'org.w3c' package.
</pre>

### W3C License
<pre>

W3C SOFTWARE NOTICE AND LICENSE

http://www.w3.org/Consortium/Legal/2002/copyright-software-20021231

This work (and included software, documentation such as READMEs, or other
related items) is being provided
 by the copyright holders under the following
license. By obtaining, using and/or copying this work, you (the licensee)
agree that you have read, understood, and will comply with the following terms
and conditions.

Permission to copy, modify, and distribute this software and its documentation, with or without modification, for any purpose and without fee or royalty is hereby granted, provided that you include the following on ALL copies of the software and documentation or portions thereof, including modifications:

1.The full text of this NOTICE in a location viewable to users of the redistributed or derivative work.

2.Any pre-existing intellectual property disclaimers, notices, or terms and conditions. If none exist, the W3C Software Short Notice should be included (hypertext is preferred, text is permitted) within the body of any redistributed or derivative code.

3.Notice of any changes or modifications to the files, including the date changes were made.
(We recommend you provide URIs to the location from which the code is derived.)

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE OR DOCUMENTATION WILL NOT INFRINGE ANY THIRD PARTY PATENTS,COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE SOFTWARE OR DOCUMENTATION. The name and trademarks of copyright holders may NOT be used in advertising or publicity pertaining to the software without specific, written prior permission. Title to copyright in this software and any associated documentation will at all times remain with copyright holders.

---

This formulation of W3C's notice and license became active on December 31 2002. This
version removes the copyright ownership notice such that this license can be used with materials other than those owned by the W3C, reflects that ERCIM is now a host of the W3C, includes references to this specific dated version of the license, and removes the ambiguous grant of "use". Otherwise, this version is the same as the previous version and is written so as to preserve the Free Software Foundation's assessment of GPL compatibility and OSI's certification under the Open Source Definition. Please see our Copyright FAQ for common questions about using materials from our site, including specific terms and conditions for packages like libwww, Amaya, and Jigsaw. Other questions about this notice can be directed to site-policy@w3.org.

</pre>
## JLine v3.20.0

### JLine License
<pre>

Copyright (c) 2002-2018, the original author or authors.
All rights reserved.

https://opensource.org/licenses/BSD-3-Clause

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the following
conditions are met:

Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with
the distribution.

Neither the name of JLine nor the names of its contributors
may be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING,
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.

4th Party Dependency
==========
org.fusesource.jansi version 1.17.1
org.apache.sshd 2.1 to 3

org.apache.felix.gogo.runtime 1.1.2
org.apache.felix.gogo.jline 1.1.4
==========
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions
for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source,
and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes

of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative
Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall
mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the

Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify

the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following

boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

==========

juniversalchardet

The library is subject to the Mozilla Public License Version
1.1.

Alternatively, the library may be used under the terms of either the GNU General Public License Version 2 or later, or the GNU Lesser General Public License 2.1 or later.

==========

slf4j

SLF4J source code and binaries are distributed under the MIT license.

Copyright (c) 2004-2017 QOS.ch
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

These terms are identical to those of the MIT License, also called the X License
or the X11 License, which is a simple, permissive non-copyleft free software license.
It is deemed compatible with virtually all types of licenses, commercial or otherwise.
In particular, the Free Software Foundation has declared it compatible with GNU GPL.
It is also known to be approved by the Apache Software Foundation as compatible with
Apache Software License.

</pre>
## jopt-simple v5.0.4

### MIT License
<pre>

Copyright (c) 2004-2015 Paul R. Holser, Jr.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

</pre>
## Independent JPEG Group: JPEG release 6b

### JPEG License
<pre>

Must reproduce following license in documentation and/or other materials
provided with distribution:

The authors make NO WARRANTY or representation, either express or implied,
with respect to this software, its quality, accuracy, merchantability, or
fitness for a particular purpose.  This software is provided "AS IS",
and you, its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-1998, Thomas G. Lane.
All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute
this software (or portions thereof) for any purpose, without fee,
subject to these conditions:

(1) If any part of the source code for this software is distributed,
then this README file must be included, with this copyright and no-warranty
notice unaltered; and any additions, deletions, or changes to the original
files must be clearly indicated in accompanying documentation.

(2)
 If only executable code is distributed, then the accompanying documentation
must state that "this software is based in part on the work of the
Independent JPEG Group".

(3) Permission for use of this software is granted only if the user accepts
full responsibility for any undesirable consequences; the authors accept
NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code,
not just to the unmodified library.  If you use our work, you ought to
acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name
in advertising or publicity relating to this software or products derived
from it.  This software may be referred to only as "the Independent JPEG
Group's software".

We specifically permit and encourage the use of this software as the basis
of commercial products, provided that all warranty or liability claims are
assumed by the product vendor.

ansi2knr.c is included in this
distribution by permission of L. Peter Deutsch,
sole proprietor of its copyright holder, Aladdin Enterprises of Menlo Park, CA.
ansi2knr.c is NOT covered by the above copyright and conditions, but instead
by the usual distribution terms of the Free Software Foundation; principally,
that you must include source code if you redistribute it.
(See the file ansi2knr.c for full details.) However, since ansi2knr.c is
not needed as part of any program generated from the IJG code, this does not
limit you more than the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf.
It is copyright by the Free Software Foundation but is freely distributable.
The same holds for its supporting scripts (config.guess, config.sub,
ltconfig, ltmain.sh). Another support script, install-sh, is copyright
by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered
by patents owned by IBM, AT&T, and Mitsubishi.
Hence arithmetic coding
cannot legally be used without obtaining one or more licenses. For this
reason, support for arithmetic coding has been removed from the free
JPEG software. (Since arithmetic coding provides only a marginal gain
over the unpatented Huffman mode, it is unlikely that very many
implementations will support it.) So far as we are aware, there are
no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support
has been removed altogether, and the GIF writer has been simplified to
produce "uncompressed GIFs". This technique does not use the LZW algorithm;
the resulting GIF files are larger than usual, but are readable by all
standard GIF decoders.

We are required to state that "The Graphics Interchange Format(c) is
the Copyright property of CompuServe Incorporated. GIF(sm) is a
Service Mark property of CompuServe Incorporated."

</pre>
## jQuery v3.6.1

### jQuery License
```
jQuery v 3.6.1
Copyright OpenJS Foundation and other contributors, https://openjsf.org/

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
```

"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER
IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

**********

The jQuery JavaScript Library v3.6.1 also includes Sizzle.js

Sizzle.js includes the following license:

Copyright JS Foundation and other contributors, https://js.foundation/

This software consists of voluntary contributions made by many
individuals. For exact contribution history, see the revision history
available at https://github.com/jquery/sizzle

The following license applies to all parts of this software except as
documented below:

====

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons
to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,

EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====

All files located in the node_modules and external directories are
externally maintained libraries used by this software which have their
own licenses; we recommend you read them, as their terms may differ from
the terms above.

**********

```
## Apache Xalan v2.7.2

### Apache Xalan Notice
<pre>

================================================================================
====
  ==  NOTICE file corresponding to the section 4d of the Apache License, Version 2.0, ==
  ==  in this case for the Apache Xalan distribution.                           ==
================================================================================
====

 This product includes software developed by
 The Apache Software Foundation (http://www.apache.org/).

 Specifically, we only include the XSLTC portion of the source from the Xalan distribution.
 The Xalan project has two processors: an interpretive one (Xalan Interpretive) and a
 compiled one (The XSLT Compiler (XSLTC)). We *only* use the XSLTC part of Xalan; We use
 the source from the packages that are part of the XSLTC sources.

 Portions of this software was originally based on the following:

   - software copyright (c) 1999-2002, Lotus Development Corporation.,
http://www.lotus.com.
   - software copyright (c) 2001-2002, Sun Microsystems., http://www.sun.com.
   - software copyright (c) 2003, IBM Corporation., http://www.ibm.com.
   - voluntary contributions made by Ovidiu Predescu (ovidiu@cup.hp.com) on behalf of the
     Apache Software Foundation and was originally developed at Hewlett Packard Company.

</pre>
```

### Apache 2.0 License
<pre>

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control,
are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made
available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes

of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright
owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare
Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement,
then any patent licenses
granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative
Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement
to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify

the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to
in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

JLEX COPYRIGHT NOTICE, LICENSE AND DISCLAIMER.
Copyright 1996-2003 by Elliot Joel Berk and C. Scott Ananian
Permission to use, copy, modify, and distribute this software and
its documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both the copyright notice and this permission notice and warranty
disclaimer appear in supporting documentation, and that the name of
the authors or their employers not be used in advertising or publicity
pertaining to distribution of the software without specific, written
prior permission.
The authors and their employers disclaim all warranties with regard to
this software, including all implied warranties of merchantability
and
fitness. In no event shall the authors or their employers be liable for
any special, indirect or consequential damages or any damages whatsoever
resulting from loss of use, data or profits, whether in an action of
contract, negligence or other tortious action, arising out of or in
connection with the use or performance of this software.The portions of
JLex output which are hard-coded into the JLex source code are (naturally)
covered by this same license.

</pre>

COPYRIGHT NOTICE, DISCLAIMER, and LICENSE
==========

PNG Reference Library License version 2
---

* Copyright (c) 1995-2022 The PNG Reference Library Authors.
* Copyright (c) 2018-2022 Cosmin Truta.
* Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson.
* Copyright (c) 1996-1997 Andreas Dilger.
* Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

The software is supplied "as is", without warranty of any kind,
express or implied, including, without limitation, the warranties
of merchantability, fitness for a particular purpose, title, and
non-infringement.  In no event shall the Copyright owners, or
anyone distributing the software, be liable for any damages or
other liability, whether in contract, tort or otherwise, arising
from, out of, or in connection with the software, or the use or
other dealings in the software, even if advised of the possibility
of such damage.

Permission is hereby granted
 to use, copy, modify, and distribute
this software, or portions hereof, for any purpose, without fee,
subject to the following restrictions:

1. The origin of this software must not be misrepresented; you
   must not claim that you wrote the original software.  If you
   use this software in a product, an acknowledgment in the product
   documentation would be appreciated, but is not required.

2. Altered source versions must be plainly marked as such, and must
   not be misrepresented as being the original software.

3. This Copyright notice may not be removed or altered from any
   source or altered source distribution.

PNG Reference Library License version 1 (for libpng 0.5 through 1.6.35)
---

libpng versions 1.0.7, July 1, 2000, through 1.6.35, July 15, 2018 are
Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson, are
derived from libpng-1.0.6, and are distributed according to the same
disclaimer
 and license as libpng-1.0.6 with the following individuals
added to the list of Contributing Authors:

Simon-Pierre Cadieux
Eric S. Raymond
Mans Rullgard
Cosmin Truta
Gilles Vollant
James Yu
Mandar Sahastrabuddhe
Google Inc.
Vadim Barkov

and with the following additions to the disclaimer:

There is no warranty against interference with your enjoyment of the library or against infringement. There is no warranty that our efforts or the library will fulfill any of your particular purposes or needs. This library is provided with all faults, and the entire risk of satisfactory quality, performance, accuracy, and effort is with the user.

Some files in the "contrib" directory and some configure-generated files that are distributed with libpng have other copyright owners, and are released under other open source licenses.

libpng versions 0.97, January 1998, through 1.0.6, March 20, 2000, are Copyright (c) 1998-2000 Glenn Randers-Pehrson,
are derived from
libpng-0.96, and are distributed according to the same disclaimer and license as libpng-0.96, with the following individuals added to the list of Contributing Authors:

Tom Lane
Glenn Randers-Pehrson
Willem van Schaik

libpng versions 0.89, June 1996, through 0.96, May 1997, are Copyright (c) 1996-1997 Andreas Dilger, are derived from libpng-0.88, and are distributed according to the same disclaimer and license as libpng-0.88, with the following individuals added to the list of Contributing Authors:

John Bowler
Kevin Bracey
Sam Bushell
Magnus Holmgren
Greg Roelofs
Tom Tanner

Some files in the "scripts" directory have other copyright owners,
but are released under this license.

libpng versions 0.5, May 1995, through 0.88, January 1996, are
Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

For the purposes of this copyright and license, "Contributing Authors"
is defined as the following set of individuals:

Andreas Dilger
Dave Martindale
Guy Eric Schalnat
Paul Schmidt
Tim Wegner

The PNG Reference Library is supplied "AS IS". The Contributing
Authors and Group 42, Inc. disclaim all warranties, expressed or
implied, including, without limitation, the warranties of
merchantability and of fitness for any purpose. The Contributing
Authors and Group 42, Inc. assume no liability for direct, indirect,
incidental, special, exemplary, or consequential damages, which may
result from the use of the PNG Reference Library, even if advised of
the possibility of such damage.

Permission is hereby granted to use, copy, modify, and distribute this
source code, or portions hereof, for any purpose, without fee, subject
to the following restrictions:

1. The origin of this source code must not be misrepresented.

2. Altered versions must be plainly marked as such and must not
be misrepresented as being the original source.

3. This Copyright notice may not be removed or altered from
any
source or altered source distribution.

The Contributing Authors and Group 42, Inc. specifically permit,
without fee, and encourage the use of this source code as a component
to supporting the PNG file format in commercial products. If you use
this source code in a product, acknowledgment is not required but would
be appreciated.
## CUP Parser Generator for Java v 0.11b

### CUP Parser Generator License

```
Copyright 1996-2015 by Scott Hudson, Frank Flannery, C. Scott Ananian, Michael Petter


```

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted, provided
that the above copyright notice appear in all copies and that both
the copyright notice and this permission notice and warranty disclaimer
appear in supporting documentation, and that the names of the authors or
their employers not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior permission.

The authors and their employers disclaim all warranties with regard to
this software, including all implied warranties of merchantability and
fitness. In no event shall the authors or their employers be liable for
any special, indirect or consequential damages or any damages whatsoever
resulting from loss of use, data or profits, whether
 in an action of
contract, negligence or other tortious action, arising out of or in
connection with the use or performance of this software.
```

---
```

This is an open source license. It is also GPL-Compatible (see entry for
"Standard ML of New Jersey"). The portions of CUP output which are hard-coded
into the CUP source code are (naturally) covered by this same license, as is
the CUP runtime code linked with the generated parser.
```

The GNU General Public License (GPL)

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license
document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share
and change it.  By contrast, the GNU General Public License is intended to
guarantee your freedom to share and change free software--to make sure the
software is free for all its users.  This General Public License applies to
most of the Free Software Foundation's software and to any other program whose
authors commit to using it.  (Some other Free Software Foundation software is
covered by the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not price.  Our
General Public Licenses are designed to make sure that
```

you have the freedom to
distribute copies of free software (and charge for this service if you wish),
that you receive source code or can get it if you want it, that you can change
the software or use pieces of it in new free programs; and that you know you
can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny
you these rights or to ask you to surrender the rights. These restrictions
translate to certain responsibilities for you if you distribute copies of the
software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for
a fee, you must give the recipients all the rights that you have. You must
make sure that they, too, receive or can get the source code. And you must
show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2)
offer you this license which gives you legal permission to copy, distribute
and/or modify the software.

Also,
for each author's protection and ours, we want to make certain that
everyone understands that there is no warranty for this free software. If the
software is modified by someone else and passed on, we want its recipients to
know that what they have is not the original, so that any problems introduced
by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We
wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making the program proprietary.
To prevent this, we have made it clear that any patent must be licensed for
everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification
follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice
placed by the copyright holder saying it may be
distributed under the terms of
this General Public License. The "Program", below, refers to any such program
or work, and a "work based on the Program" means either the Program or any
derivative work under copyright law: that is to say, a work containing the
Program or a portion of it, either verbatim or with modifications and/or
translated into another language. (Hereinafter, translation is included
without limitation in the term "modification".) Each licensee is addressed as
"you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided
that you conspicuously and
appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to
be
licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its
terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a

work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source

code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute
the Program except as
expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically
receives a license from the original licensor to
copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you,
then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many

people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND

PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE
PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How
to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.

Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it

starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author Gnomovision comes
with ABSOLUTELY NO WARRANTY; for details type 'show w'. This is free
software, and you are welcome to redistribute it under certain conditions;
type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may be
called something
other than 'show w' and 'show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school,
if any, to sign a "copyright disclaimer" for the program, if necessary. Here
is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General Public
License instead of this License.

"CLASSPATH" EXCEPTION TO THE GPL

Certain source files distributed by Oracle America and/or its affiliates are
subject to the following
clarification and special exception to the GPL, but
only where Oracle has expressly included in the particular source file's header
the words "Oracle designates this particular file as subject to the "Classpath"
exception as provided by Oracle in the LICENSE file that accompanied this code."

Linking this library statically or dynamically with other modules is making
a combined work based on this library. Thus, the terms and conditions of
the GNU General Public License cover the whole combination.

As a special exception, the copyright holders of this library give you
permission to link this library with independent modules to produce an
executable, regardless of the license terms of these independent modules,
and to copy and distribute the resulting executable under terms of your

choice, provided that you also meet, for each linked independent module,
the terms and conditions of the license of that module. An independent
module is a module
which is not derived from or based on this library. If
you modify this library, you may extend this exception to your version of
the library, but you are not obligated to do so. If you do not wish to do
so, delete this exception statement from your version.
## Apache Commons Byte Code Engineering Library (BCEL) Version 6.5.0

### Apache Commons BCEL Notice
<pre>

Apache Commons BCEL
Copyright 2004-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

</pre>

### Apache 2.0 License
<pre>

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity.
For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is
included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any
form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense,

and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for
that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution
notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents

of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms
and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE
file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages
of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,

work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and limitations under the License.

</pre>
Copyright (c) %YEARS% Oracle and/or its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without

modification, are permitted provided that the following conditions
are met:

- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

- Neither the name of Oracle nor the names of its
  contributors may be used to endorse or promote products derived
  from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED.  IN NO
 EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
## Dynalink v.5

### Dynalink License
<pre>

Copyright (c) 2009-2013, Attila Szegedi

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
* Redistributions of source code must retain the above copyright
 notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
* Neither the name of the copyright holder nor the names of
 contributors may be used to endorse or promote products derived from
 this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A

PARTICULAR PURPOSE ARE DISCLAIMED. IN
NO EVENT SHALL COPYRIGHT HOLDER
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

</pre>
## Mesa 3-D Graphics Library v21.0.3

### Mesa License

```
Copyright (C) 1999-2007  Brian Paul   All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN
ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

Attention, Contributors

When contributing to the Mesa project you must agree to the licensing terms
of the component to which you're contributing.
The following section lists the primary components of the Mesa distribution
and their respective licenses.
Mesa Component Licenses



Component      Location            License
```

---

| | | |
|---|---|---|
| Main Mesa code | src/mesa/ | MIT |
| Device drivers | src/mesa/drivers/* | MIT, generally |
| Gallium code | src/gallium/ | MIT |
| Ext headers | GL/glext.h | Khronos |
| | GL/glxext.h | Khronos |
| | GL/wglext.h | Khronos |
| | KHR/khrplatform.h | Khronos |

**********

---

include/GL/gl.h :

Mesa 3-D
graphics library

Copyright (C) 1999-2006 Brian Paul All Rights Reserved.
Copyright (C) 2009 VMware, Inc. All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

**********

---

include/GL/glext.h
include/GL/glxext.h
include/GL/wglxext.h :

Copyright (c) 2013 - 2018 The Khronos Group Inc.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and/or associated documentation files (the
"Materials"), to deal in the Materials without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Materials, and to
permit persons to whom the Materials are furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Materials.

THE MATERIALS ARE PROVIDED "AS IS", WITHOUT
WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
MATERIALS OR THE USE OR OTHER DEALINGS IN THE MATERIALS.

**********

---
include/KHR/khrplatform.h :

Copyright (c) 2008 - 2018 The Khronos Group Inc.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and/or associated documentation files (the
"Materials"), to deal in the Materials without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Materials, and to
permit persons to whom the Materials are furnished to do
so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Materials.

THE MATERIALS ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE

MATERIALS OR THE USE OR OTHER DEALINGS IN THE MATERIALS.

**********

```
## ASM Bytecode Manipulation Framework v6.0

### ASM License
<pre>

Copyright (c) 2000-2011 France Tlcom
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY
 AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

</pre>
```

# 1.58 jackson-annotations 2.15.4

## 1.58.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain

separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without

modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include

the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

## Licensing

Jackson 2.x core and extension components are licensed under Apache License 2.0
To find the details that apply to this artifact see the accompanying LICENSE file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

# 1.59 jackson 2.15.4

## 1.59.1 Available under license :

FasterXML, LLC
Software Grant and Corporate Contributor License Agreement ("Agreement")

https://github.com/FasterXML/jackson/blob/master/contributor-agreement-corporate.txt

(v1)

Thank you for your interest in FasterXML, LLC ("FasterXML"). In order to clarify the intellectual property license granted with Contributions from any person or entity, FasterXML must have a Contributor License Agreement (CLA) on file that has been signed by each Contributor, indicating agreement to the license terms below. This license is for your protection as a Contributor as well as the protection of FasterXML and its users; it does not change your rights to use your own Contributions for any other purpose.

This version of the Agreement allows an entity (the "Corporation") to submit Contributions to the FasterXML, to authorize Contributions submitted by its designated employees to FasterXML, and to grant copyright and patent licenses thereto.

If
you have not already done so, please complete and sign, then scan and email a pdf file of this Agreement to clas@fasterxml.com. If necessary, send an original signed Agreement to FasterXML, LLC, 600 N 36th Ave, Suite 409, Seattle, WA 98103.

Please read this document carefully before signing and keep a copy for your records.

Corporation name: _____

Corporation address: _____

_____

_____

Point of Contact: _____

E-Mail: _____

Telephone: _____ Fax: _____

You accept and agree to the following terms and conditions for Your present and future Contributions submitted to FasterXML. Except for the license granted herein to FasterXML and recipients of software distributed by FasterXML, You reserve all right, title, and interest in and to Your Contributions.

1. Definitions.

"You" (or "Your") shall mean the copyright owner or legal entity authorized by the copyright owner that is making this Agreement with FasterXML. For legal entities, the entity making a Contribution and all other entities that control, are controlled by, or are under common control with that entity are considered to be a single Contributor. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"Contribution" shall mean the code, documentation or other original works of authorship
expressly identified in Schedule B,
as well as any original work of authorship, including any modifications or additions to an existing work, that is intentionally submitted by You to FasterXML for inclusion in, or documentation of, any of the products owned or managed by FasterXML (the "Work"). For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to FasterXML or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, FasterXML for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by You as "Not a Contribution."

2. Grant of Copyright License. Subject to the terms and conditions of this Agreement, You hereby grant
to FasterXML and to
recipients of software distributed by FasterXML a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, sublicense, and distribute Your Contributions and such derivative works.

3. Grant of Patent License. Subject to the terms and conditions of this Agreement, You hereby grant to FasterXML and to recipients of software distributed by FasterXML a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable

by You that are necessarily infringed by Your Contribution(s)
alone or by combination of Your Contribution(s) with the Work to
which such Contribution(s)
were submitted. If any entity institutes
patent litigation against You or any other entity (including a
cross-claim or counterclaim in a lawsuit) alleging that your
Contribution, or the Work to which you have contributed, constitutes
direct or contributory patent infringement, then any patent licenses
granted to that entity under this Agreement for that Contribution or
Work shall terminate as of the date such litigation is filed.

4. You represent that You are legally entitled to grant the above
license. You represent further that each employee of the
Corporation designated on Schedule A below (or in a subsequent
written modification to that Schedule) is authorized to submit
Contributions on behalf of the Corporation.

5. You represent that each of Your Contributions is Your original
creation (see section 7 for submissions on behalf of others).

6. You are not expected to provide support for Your Contributions,
except to the extent You desire to provide support. You may provide
support for free, for a fee, or not at all. Unless required by
applicable law or agreed to in writing, You provide Your
Contributions on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS
OF ANY KIND, either express or implied, including, without
limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT,
MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE.

7. Should You wish to submit work that is not Your original creation,
You may submit it to FasterXML separately from any
Contribution, identifying the complete details of its source and
of any license or other restriction (including, but not limited
to, related patents, trademarks, and license agreements) of which
you are personally aware, and conspicuously marking the work as
"Submitted on behalf of a third-party: [named here]".

8. It is your responsibility to notify
FasterXML when any change is
required to the list of designated employees authorized to
submit Contributions on behalf of the Corporation, or to the
Corporation's Point of Contact with FasterXML.

Please sign: _____ Date: _____

Title: _____

Corporation: _____

Schedule A

[Initial list of designated employees. NB: authorization is not tied to particular Contributions.]

Schedule B

[Identification of optional concurrent software grant. Would be left blank or omitted if there is no concurrent software grant.]

# 1.60 jackson-databind 2.15.4

## 1.60.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial
revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution

notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor

has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

## Licensing

Jackson 2.x core and extension components are licensed under Apache License 2.0
To find the details that apply to this artifact see the accompanying LICENSE file.

## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

# 1.61 jackson-dataformat-yaml 2.15.4

## 1.61.1 Available under license :

This copy of Jackson JSON processor YAML module is licensed under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivative works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

## Copyright

Copyright 2007-, Tatu Saloranta (tatu.saloranta@iki.fi)

## Licensing

Jackson components are licensed under Apache (Software) License, version 2.0,
as per accompanying LICENSE file.

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

# 1.62 expat 2.6.2

## 1.62.1 Available under license :

Copyright (c) 1998-2000 Thai Open Source Software Center Ltd and Clark Cooper
Copyright (c) 2001-2022 Expat maintainers

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.63 servlet-api 3.0.1

## 1.63.1 Available under license :

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0

1. Definitions.

1.1. Contributor. means each individual or entity that creates or contributes to the creation of Modifications.

1.2. Contributor Version. means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.

1.3. Covered Software. means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.

1.4. Executable. means the Covered Software in any form other than Source Code.

1.5. Initial Developer. means the individual or entity that first makes Original Software available under this License.

1.6. Larger Work. means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.

1.7. License. means this document.

1.8.
Licensable. means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. Modifications. means the Source Code and Executable form of any of the following:

A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications;

B. Any new file that contains any part of the Original Software or previous Modification; or

C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. Original Software. means the Source Code and Executable form of computer software code that is originally released under this License.

1.11. Patent Claims. means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.12.
Source Code. means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. You. (or .Your.) means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, .You. includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, .control. means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants.

2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under
intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software
with other software or devices.

2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the
combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code.
Any Covered Software that You distribute or otherwise make available in Executable form must also be made available
in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

3.2. Modifications.
The Modifications that You create or to which You contribute are governed by the terms of this License. You

represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

3.3. Required Notices.

You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients. rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipient.s rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.6. Larger Works.

You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

4. Versions of the License.

4.1. New Versions.

Sun Microsystems, Inc. is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use,

distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

4.3. Modified Versions.

When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN .AS IS. BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES
THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGING. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as .Participant.) alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses
that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR

CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY.S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS
DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a .commercial item,. as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of .commercial computer software. (as that term is defined at 48 C.F.R. ? 252.227-7014(a)(1)) and .commercial computer software documentation. as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdiction.s conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys. fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for
compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California

and the state courts of the State of California, with venue lying in Santa Clara County, California.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc. 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software,
we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer
you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any
program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute
verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that
in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works
in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the

entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear
what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These
Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.

Copyright (C)

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY
or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits
your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

"CLASSPATH" EXCEPTION TO THE GPL VERSION 2

Certain source files distributed by Sun Microsystems, Inc. are subject to the following clarification and special exception to the GPL Version 2, but only where Sun has expressly included in the particular
source file's header the words

"Sun designates this particular file as subject to the "Classpath" exception as provided by Sun in the License file that accompanied this code."

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License Version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module.? An independent module is a module which is not derived from or based on this library.? If you modify this library, you may extend this exception to your version of the library, but
you are not obligated to do so.? If you do not wish to do so, delete this exception statement from your version.

# 1.64 disruptor 2.11.2.3

## 1.64.1 Available under license :

Apache Log4j Core
Copyright 1999-2012 Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

ResolverUtil.java
Copyright 2005-2006 Tim Fennell

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial
revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their

Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf

of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright 1999-2005 The Apache Software Foundation

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

# 1.65 perfmark-api 0.17.0

## 1.65.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2019 Carl Mastrangelo
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*     http://www.apache.org/licenses/LICENSE-2.0
*
```

* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1978701202_1713373462.1014466/0/perfmark-api-0-17-0-sources-2-jar/io/perfmark/package-info.java
* /opt/cola/permits/1978701202_1713373462.1014466/0/perfmark-api-0-17-0-sources-2-jar/io/perfmark/PerfMark.java
* /opt/cola/permits/1978701202_1713373462.1014466/0/perfmark-api-0-17-0-sources-2-jar/io/perfmark/Tag.java
*
/opt/cola/permits/1978701202_1713373462.1014466/0/perfmark-api-0-17-0-sources-2-jar/io/perfmark/Link.java
* /opt/cola/permits/1978701202_1713373462.1014466/0/perfmark-api-0-17-0-sources-2-jar/io/perfmark/Impl.java

# 1.66 jsr305 3.0.2

## 1.66.1 Available under license :

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Bundle-Description: JSR305 Annotations for Findbugs
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-SymbolicName: org.jsr-305
Archiver-Version: Plexus Archiver
Built-By: lan
Bnd-LastModified: 1490936130302
Bundle-ManifestVersion: 2
Tool: Bnd-2.1.0.20130426-122213
Export-Package: javax.annotation;uses:="javax.annotation.meta";version
="3.0.2",javax.annotation.concurrent;version="3.0.2",javax.annotation
.meta;uses:="javax.annotation";version="3.0.2"
Bundle-Name: FindBugs-jsr305
Bundle-Version: 3.0.2
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_101

Found in path(s):
* /opt/cola/permits/2001172140_1714647910.2309132/0/jsr305-3-0-2-15-jar/META-INF/MANIFEST.MF
No license file was found, but licenses were detected in source scan.

<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
<modelVersion>4.0.0</modelVersion>
<parent>

```
  <groupId>org.sonatype.oss</groupId>
  <artifactId>oss-parent</artifactId>
  <version>7</version>
  <relativePath />
</parent>

<groupId>com.google.code.findbugs</groupId>
<artifactId>jsr305</artifactId>
<version>3.0.2</version>
<packaging>jar</packaging>

<url>http://findbugs.sourceforge.net/</url>
<name>FindBugs-jsr305</name>
<description>JSR305 Annotations for Findbugs</description>
<licenses>
  <license>
    <name>The Apache Software License, Version 2.0</name>
    <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
    <distribution>repo</distribution>
  </license>
</licenses>

<prerequisites>
  <maven>3.0</maven>
</prerequisites>

 <scm>
  <connection>scm:git:https://code.google.com/p/jsr-305/</connection>
  <developerConnection>scm:git:https://code.google.com/p/jsr-305/</developerConnection>
  <url>https://code.google.com/p/jsr-305/</url>
</scm>

<build>
  <plugins>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-javadoc-plugin</artifactId>
      <version>2.9.1</version>
      <executions>
       <execution>
        <phase>package</phase>
        <goals>
         <goal>jar</goal>
        </goals>
        <configuration>
         <quiet>true</quiet>
        </configuration>
       </execution>
```

```
  </executions>
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-compiler-plugin</artifactId>
  <version>3.0</version>
  <configuration>
    <source>1.5</source>
    <target>1.5</target>
  </configuration>
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
 <artifactId>maven-source-plugin</artifactId>
 <version>2.4</version>
 <executions>
  <execution>
   <id>attach-sources</id>
   <goals>
    <goal>jar-no-fork</goal>
   </goals>
  </execution>
 </executions>
</plugin>
<plugin>
 <groupId>org.apache.felix</groupId>
 <artifactId>maven-bundle-plugin</artifactId>
 <version>2.4.0</version>
 <extensions>true</extensions>
 <executions>
  <execution>
   <id>bundle-manifest</id>
   <phase>process-classes</phase>
   <goals>
    <goal>manifest</goal>
   </goals>
  </execution>
 </executions>
 <configuration>
  <instructions>
   <Bundle-SymbolicName>org.jsr-305</Bundle-SymbolicName>
   <Bundle-Name>${project.name}</Bundle-Name>
   <Export-Package>javax.annotation;javax.annotation.concurrent;javax.annotation.meta</Export-Package>
   </instructions>
 </configuration>
</plugin>
<plugin>
 <groupId>org.apache.maven.plugins</groupId>
```

```
      <artifactId>maven-jar-plugin</artifactId>
      <version>2.4</version>
      <configuration>
       <archive>
        <manifestFile>${project.build.outputDirectory}/META-INF/MANIFEST.MF</manifestFile>
       </archive>
      </configuration>
     </plugin>
     <plugin>
      <groupId>org.sonatype.plugins</groupId>
      <artifactId>nexus-staging-maven-plugin</artifactId>
      <version>1.6.3</version>
      <extensions>true</extensions>
      <configuration>
       <serverId>ossrh</serverId>
       <nexusUrl>https://oss.sonatype.org/</nexusUrl>
       <autoReleaseAfterClose>true</autoReleaseAfterClose>
      </configuration>
     </plugin>
     <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-gpg-plugin</artifactId>
      <version>1.5</version>
      <executions>
       <execution>
        <id>sign-artifacts</id>
        <phase>verify</phase>
        <goals>
         <goal>sign</goal>
        </goals>
       </execution>
      </executions>
     </plugin>
    </plugins>
   </build>
  </project>

  Found in path(s):
  * /opt/cola/permits/2001172140_1714647910.2309132/0/jsr305-3-0-2-15-jar/META-
  INF/maven/com.google.code.findbugs/jsr305/pom.xml
```

# 1.67 kotlin 9.0

## 1.67.1 Available under license :

```
  ## The Unicode Standard, Unicode Character Database, Version 10.0.0

  ### Unicode Character Database
```

```

UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE
Unicode Data Files include all data files under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/,
http://source.icu-project.org/repos/icu/, and
http://www.unicode.org/utility/trac/browser/.

Unicode Data Files do not include PDF online code charts under the
directory http://www.unicode.org/Public/.

Software includes any source code published in the Unicode Standard
or under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/,
http://source.icu-project.org/repos/icu/, and
http://www.unicode.org/utility/trac/browser/.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU
 UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright  1991-2018 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b)
 this copyright and permission notice appear in associated
Documentation.
```

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.

```

Copyright (c) 1999-2003 David Corcoran <corcoran@musclecard.com>
Copyright (c) 2001-2011 Ludovic Rousseau <ludovic.rousseau@free.fr>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
  derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN
 NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Some files are under GNU GPL v3 or any later version
- doc/example/pcsc_demo.c
```

- the files in src/spy/
- the files in UnitaryTests/

Copyright (C) 2003-2014 Ludovic Rousseau

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Files src/auth.c and src/auth.h are:
* Copyright (C) 2013 Red Hat
*
* All rights reserved.
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
*
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
*
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
*
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
* "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
* LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
* FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
* COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
* BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
* OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
* AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
* OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
* THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
* DAMAGE.
*
* Author: Nikos Mavrogiannopoulos <nmav@redhat.com>

Files src/simclist.c and src/simclist.h are:
* Copyright (c) 2007,2008,2009,2010,2011 Mij <mij@bitchx.it>
*
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby
granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
* WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
* MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
* ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
* ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
* OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
## Mozilla Elliptic Curve Cryptography (ECC)

### Mozilla ECC Notice

This notice is provided with respect to Elliptic Curve Cryptography,
which is included with JRE, JDK, and OpenJDK.

You are receiving a
[copy](http://hg.openjdk.java.net/jdk9/jdk9/jdk/file/tip/src/jdk.crypto.ec/share/native/libsunec/impl)
of the Elliptic Curve Cryptography library in source
form with the JDK and OpenJDK source distributions, and as object code in
the JRE & JDK runtimes.
<pre>
In the case of the JRE & JDK runtimes, the terms of the Oracle license do
NOT apply to the Elliptic Curve Cryptography library; it is licensed under the
following license, separately from Oracle's JDK & JRE.  If you do not wish to
install the Elliptic Curve Cryptography library, you may delete the
Elliptic Curve Cryptography library:
  - On Solaris and Linux systems: delete $(JAVA_HOME)/lib/libsunec.so
  - On Mac OSX systems: delete $(JAVA_HOME)/lib/libsunec.dylib
  - On Windows systems: delete $(JAVA_HOME)\bin\sunec.dll

</pre>

###
 Written Offer for Source Code
<pre>

For third party technology that you receive from Oracle in binary form
which is licensed under an open source license that gives you the right
to receive the source code for that binary, you can obtain a copy of

the applicable source code from this page:
http://hg.openjdk.java.net/jdk9/jdk9/jdk/file/tip/src/jdk.crypto.ec/share/native/libsunec/impl

If the source code for the technology was not provided to you with the
binary, you can also receive a copy of the source code on physical
media by submitting a written request to:

Oracle America, Inc.
Attn: Associate General Counsel,
Development and Engineering Legal
500 Oracle Parkway, 10th Floor
Redwood Shores, CA 94065

Or, you may send an email to Oracle using the form at:

http://www.oracle.com/goto/opensourcecode/request

Your request should include:

- The name of the component or binary file(s) for which you are requesting the source code

- The name and version
number of the Oracle product containing the binary

- The date you received the Oracle product

- Your name

- Your company name (if applicable)

- Your return mailing address and email and

- A telephone number in the event we need to reach you.

We may charge you a fee to cover the cost of physical media and processing.
Your request must be sent (i) within three (3) years of the date you
received the Oracle product that included the component or binary
file(s) that are the subject of your request, or (ii) in the case of
code licensed under the GPL v3, for as long as Oracle offers spare
parts or customer support for that product model.

</pre>

### LGPL 2.1
<pre>

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
Everyone is permitted to copy and distribute verbatim copies
of this license document,
 but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

 The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

 This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

 When we speak of free software, we are referring to freedom of use,
not
 price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

 To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

 For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library
 after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public
License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this

case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs
enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed
under the terms of
this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface

definition files, plus the scripts used to control compilation
and installation of the library.

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

You may charge a
fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in
the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the

application.  Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole.  If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works.  But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library.  To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License.  (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.)  Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which

must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse

engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is

normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute

the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution
of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through
any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version
number of this License which applies to it and
"any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT
PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE
WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can
redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims
all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

</pre>
## Little Color Management System (LCMS) v2.15

### LCMS License
<pre>
README.1ST file information

LittleCMS core is released under MIT License

---

Little CMS
Copyright (c) 1998-2023 Marti Maria Saguer

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject
to the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN
 NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

---
The below license applies to the following files:
liblcms/cmssm.c

Copyright 2001, softSurfer (www.softsurfer.com)

This code may be freely used and modified for any purpose
providing that this copyright notice is included with it.
SoftSurfer makes no warranty for this code, and cannot be held
liable for any real or imagined damage resulting from its use.
Users of this code must verify correctness for their application.

</pre>

### AUTHORS File Information
```

Main Author
---
Marti Maria

Contributors
---
Bob Friesenhahn
Kai-Uwe Behrmann
Stuart Nixon
Jordi Vilar
Richard Hughes
Auke Nauta
Chris Evans (Google)
Lorenzo Ridolfi
Robin Watts (Artifex)
Shawn Pedersen
Andrew Brygin
Samuli
 Suominen
Florian Hch
Aurelien Jarno
Claudiu Cebuc
Michael Vhrel (Artifex)
Michal Cihar
Daniel Kaneider
Mateusz Jurczyk (Google)
Paul Miller
Sbastien Lon
Christian Schmitz
XhmikosR
Stanislav Brabec (SuSe)
Leonhard Gruenschloss (Google)
Patrick Noffke
Christopher James Halse Rogers
John Hein
Thomas Weber (Debian)
Mark Allen
Noel Carboni
Sergei Trofimovic
Philipp Knechtges
Amyspark
Lovell Fuller
```

Eli Schwartz

Special Thanks
---
Artifex software
AlienSkin software
libVIPS
Jan Morovic
Jos Vernon (WebSupergoo)
Harald Schneider (Maxon)
Christian Albrecht
Dimitrios Anastassakis
Lemke Software
Tim Zaman

```
## xwd v1.0.7

### xwd utility
<pre>

This is the copyright for the files in src/java.desktop/unix/native/libawt_xawt:
list.h, multiVis.h, wsutils.h, list.c, multiVis.c

Copyright 1994 Hewlett-Packard Co.
Copyright 1996, 1998  The Open Group

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation.

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING
 FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall
not be used in advertising or otherwise to promote the sale, use or
other dealings in this Software without prior written authorization
```

from The Open Group.

</pre>
## The FreeType Project: Freetype v2.12.1

### FreeType Notice

```
FreeType comes with two licenses from which you can choose the one
which fits your needs best.

  The FreeType License (FTL) is the most commonly used one. It is
  a BSD-style license with a credit clause and thus compatible with
  the GNU Public License (GPL) version 3, but not with the
  GPL version 2.

  The GNU General Public License (GPL), version 2. Use it for all
  projects which use the GPLv2 also, or which need a license
  compatible to the GPLv2.

```

### FreeType License
```

Copyright (C) 1996-2022 by David Turner, Robert Wilhelm, and Werner Lemberg.
Copyright (C) 2007-2022 by Dereg Clegg and Michael Toftdal.
Copyright (C) 1996-2022 by Just van Rossum, David Turner, Robert Wilhelm, and Werner Lemberg.
Copyright (C) 2004-2022 by Masatake YAMATO and Redhat K.K.
Copyright (C) 2007-2022 by Derek Clegg and Michael Toftdal.
Copyright (C) 2007-2022 by David Turner.
Copyright (C) 2022 by David Turner,
 Robert Wilhelm, Werner Lemberg, and Moazin Khatti.
Copyright (C) 2007-2022 by Rahul Bhalerao <rahul.bhalerao@redhat.com>, <b.rahul.pm@gmail.com>.
Copyright (C) 2008-2022 by David Turner, Robert Wilhelm, Werner Lemberg, and suzuki toshiya.
Copyright (C) 2019-2022 by Nikhil Ramakrishnan, David Turner, Robert Wilhelm, and Werner Lemberg.
Copyright (C) 2009-2022 by Oran Agra and Mickey Gabel.
Copyright (C) 2004-2022 by David Turner, Robert Wilhelm, Werner Lemberg, and George Williams.
Copyright (C) 2004-2022 by Masatake YAMATO, Red Hat K.K.,
Copyright (C) 2003-2022 by Masatake YAMATO, Redhat K.K.,
Copyright (C) 2013-2022 by Google, Inc.
Copyright (C) 2018-2022 by David Turner, Robert Wilhelm, Dominik Rttsches, and Werner Lemberg.
Copyright (C) 2005-2022 by David Turner, Robert Wilhelm, and Werner Lemberg.
Copyright 2013 by Google, Inc.
```

The FreeType Project LICENSE

---

2006-Jan-27

Copyright 1996-2002, 2006 by
David Turner, Robert Wilhelm, and Werner Lemberg

## Introduction

The FreeType Project is distributed in several archive packages; some of them may contain, in addition to the FreeType font engine, various tools and contributions which rely on, or relate to, the FreeType Project.

This license applies to all files found in such packages, and which do not fall under their own explicit license. The license affects thus the FreeType font engine, the test programs, documentation and makefiles, at the very least.

This license was inspired by the BSD, Artistic, and IJG (Independent JPEG Group) licenses, which all encourage inclusion and use of free software in commercial and freeware products alike. As a consequence, its main points are that:

- We don't promise that this software works. However, we will be interested in any kind of bug reports. (`as is' distribution)

- You can use this software for whatever you want, in parts or full form, without having to pay us. (`royalty-free' usage)

- You may not pretend that you wrote this software. If you use it, or only parts of it, in a program, you must acknowledge somewhere in your documentation that you have used the FreeType code. (`credits')

We specifically permit and encourage the inclusion of this software, with or without modifications, in commercial products. We disclaim all warranties covering The FreeType Project and assume no liability related to The FreeType Project.

Finally, many people asked us for a preferred form for a credit/disclaimer to use in compliance with this license. We thus encourage you to use the following text:

"""
Portions of this software are copyright <year> The FreeType
Project (www.freetype.org). All rights reserved.
"""

Please replace <year> with the
value from the FreeType version you
actually use.

Legal Terms
==========

0. Definitions
---

Throughout this license, the terms `package', `FreeType Project',
and `FreeType archive' refer to the set of files originally
distributed by the authors (David Turner, Robert Wilhelm, and
Werner Lemberg) as the `FreeType Project', be they named as alpha,
beta or final release.

`You' refers to the licensee, or person using the project, where
`using' is a generic term including compiling the project's source
code as well as linking it to form a `program' or `executable'.
This program is referred to as `a program using the FreeType
engine'.

This license applies to all files distributed in the original
FreeType Project, including all source code, binaries and
documentation, unless otherwise stated in the file in its
original, unmodified form as distributed in the original archive.
If you are unsure whether
or not a particular file is covered by
this license, you must contact us to verify this.

The FreeType Project is copyright (C) 1996-2000 by David Turner,
Robert Wilhelm, and Werner Lemberg. All rights reserved except as
specified below.

1. No Warranty
---

THE FREETYPE PROJECT IS PROVIDED `AS IS' WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. IN NO EVENT WILL ANY OF THE AUTHORS OR COPYRIGHT HOLDERS

BE LIABLE FOR ANY DAMAGES CAUSED BY THE USE OR THE INABILITY TO USE, OF THE FREETYPE PROJECT.

2. Redistribution
---

This license grants a worldwide, royalty-free, perpetual and irrevocable right and license to use, execute, perform, compile, display, copy, create derivative works of, distribute and sublicense the FreeType Project (in both source and object code forms) and derivative
works thereof for any purpose; and to
authorize others to exercise some or all of the rights granted herein, subject to the following conditions:

- Redistribution of source code must retain this license file (`FTL.TXT') unaltered; any additions, deletions or changes to the original files must be clearly indicated in accompanying documentation. The copyright notices of the unaltered, original files must be preserved in all copies of source files.

- Redistribution in binary form must provide a disclaimer that states that the software is based in part of the work of the FreeType Team, in the distribution documentation. We also encourage you to put an URL to the FreeType web page in your documentation, though this isn't mandatory.

These conditions apply to any software derived from or based on the FreeType Project, not just the unmodified files. If you use our work,
you must acknowledge us. However, no fee need be paid
to us.

3. Advertising
---

Neither the FreeType authors and contributors nor you shall use the name of the other for commercial, advertising, or promotional purposes without specific prior written permission.

We suggest, but do not require, that you use one or more of the following phrases to refer to this software in your documentation or advertising materials: `FreeType Project', `FreeType Engine', `FreeType library', or `FreeType Distribution'.

As you have not signed this license, you are not required to accept it. However, as the FreeType Project is copyrighted

material, only this license, or another one contracted with the
authors, grants you the right to use, distribute, and modify it.
Therefore, by using, distributing, or modifying the FreeType
Project, you indicate that you understand and accept all the terms
of this license.

4. Contacts
---

There are two mailing lists related to FreeType:

o freetype@nongnu.org

Discusses general use and applications of FreeType, as well as
future and wanted additions to the library and distribution.
If you are looking for support, start in this list if you
haven't found anything to help you in the documentation.

o freetype-devel@nongnu.org

Discusses bugs, as well as engine internals, design issues,
specific licenses, porting, etc.

Our home page can be found at

http://www.freetype.org

```

### GPL v2

```
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it.
By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software

Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally,
any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated
into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical
act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in
whole or in part contains or is derived from the Program or any
part thereof, to be licensed as a whole at no charge to all third
parties under the terms of this License.

c) If the modified program normally reads commands interactively
when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
announcement including an appropriate

copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each
and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable
source code, which must be distributed under the terms of Sections
1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid
for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you

received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program

specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the

following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to
the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample;
alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs.  If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library.  If this is what you want to do, use the GNU Library General
Public License instead of this License.

```

### Additional Freetype Attributions
```

---
The below license applies to the following files:
libfreetype/src/psaux/psarrst.c
libfreetype/src/psaux/psarrst.h
libfreetype/src/psaux/psblues.c
libfreetype/src/psaux/psblues.h
libfreetype/src/psaux/pserror.c
libfreetype/src/psaux/pserror.h
libfreetype/src/psaux/psfixed.h
libfreetype/src/psaux/psfont.c
libfreetype/src/psaux/psfont.h
libfreetype/src/psaux/psft.c
libfreetype/src/psaux/psft.h
libfreetype/src/psaux/psglue.h
libfreetype/src/psaux/pshints.c
libfreetype/src/psaux/pshints.h
libfreetype/src/psaux/psintrp.c
libfreetype/src/psaux/psintrp.h
libfreetype/src/psaux/psread.c
libfreetype/src/psaux/psread.h
libfreetype/src/psaux/psstack.c
libfreetype/src/psaux/psstack.h
libfreetype/src/psaux/pstypes.h

Copyright
 2006-2014 Adobe Systems Incorporated.

This software, and all works of authorship, whether in source or
object code form as indicated by the copyright notice(s) included
herein (collectively, the "Work") is made available, and may only be
used, modified, and distributed under the FreeType Project License,
LICENSE.TXT.  Additionally, subject to the terms and conditions of the
FreeType Project License, each contributor to the Work hereby grants
to any individual or legal entity exercising permissions granted by
the FreeType Project License and this section (hereafter, "You" or

"Your") a perpetual, worldwide, non-exclusive,
no-charge,
royalty-free, irrevocable (except as stated in this section) patent
license to make, have made, use, offer to sell, sell, import, and
otherwise transfer the Work, where such license applies only to those
patent claims licensable by such contributor that are necessarily
infringed by their contribution(s) alone or by combination of their
contribution(s) with the Work to which such contribution(s) was
submitted. If You institute patent litigation against any entity
(including a cross-claim or counterclaim in a lawsuit) alleging that
the Work or a contribution incorporated within the Work constitutes
direct or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate as of
the date such litigation is filed.

By using, modifying, or distributing the Work you indicate that you
have read and understood the terms and conditions of the
FreeType Project License as well as those provided in this section,
and you accept
them fully.

```

### MIT License
```

---
The below license applies to the following files:
libfreetype/include/freetype/internal/fthash.h
libfreetype/src/base/fthash.c

Copyright 2000 Computing Research Labs, New Mexico State University
Copyright 2001-2015

Francesco Zappa Nardelli

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR

IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE COMPUTING RESEARCH LAB OR NEW MEXICO STATE UNIVERSITY BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT
OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR
THE USE OR OTHER DEALINGS IN THE SOFTWARE.

```

## PC/SC Lite v1.9.5

### PC/SC Lite License
<pre>

The main parts of the code are using the BSD-like licence bellow:

Copyright (c) 1999-2003 David Corcoran <corcoran@linuxnet.com>
Copyright (c) 2001-2011 Ludovic Rousseau <ludovic.rousseau@free.fr>
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

Changes to this license can be made only by the copyright author with explicit written consent.

THIS
SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Some source code files are using other licences. See the [COPYING](https://salsa.debian.org/rousseau/PCSC/-/blob/master/COPYING) file for details.

</pre>
```

This is the copyright file
## Harfbuzz v7.0.1

### Harfbuzz License

https://github.com/harfbuzz/harfbuzz/blob/7.0.1/COPYING

<pre>

HarfBuzz is licensed under the so-called "Old MIT" license.  Details follow.
For parts of HarfBuzz that are licensed under different licenses see individual
files names COPYING in subdirectories where applicable.

Copyright  2010-2022  Google, Inc.
Copyright  2018-2020  Ebrahim Byagowi
Copyright  2004-2013  Red Hat, Inc.
Copyright  2019  Facebook, Inc.
Copyright  2007  Chris Wilson
Copyright  2018-2019 Adobe Inc.
Copyright  2006-2023 Behdad Esfahbod
Copyright  1998-2004  David Turner and Werner Lemberg
Copyright  2009  Keith Stribley
Copyright  2018  Khaled Hosny
Copyright  2016  Elie Roux <elie.roux@telecom-bretagne.eu>
Copyright  2016  Igalia S.L.
Copyright  2015  Mozilla Foundation.
Copyright  1999  David Turner
Copyright  2005  Werner Lemberg
Copyright  2013-2015  Alexei Podtelezhnikov
Copyright  2022 Matthias Clasen
Copyright  2011  Codethink Limited

For full copyright notices
 consult the individual files in the package.

Permission is hereby granted, without written agreement and without
license or royalty fees, to use, copy, modify, and distribute this
software and its documentation for any purpose, provided that the
above copyright notice and the following two paragraphs appear in
all copies of this software.

IN NO EVENT SHALL THE COPYRIGHT HOLDER BE LIABLE TO ANY PARTY FOR
DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE AND ITS DOCUMENTATION, EVEN
IF THE COPYRIGHT HOLDER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

THE COPYRIGHT HOLDER SPECIFICALLY DISCLAIMS ANY WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE SOFTWARE PROVIDED HEREUNDER IS ON AN "AS IS" BASIS, AND THE COPYRIGHT HOLDER HAS NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

All source code, except for one section,
is licensed as above. The one
exception is licensed with a slightly different MIT variant:
The contents of this directory are licensed under the following terms:

---
The below license applies to the following files:
libharfbuzz/hb-ucd.cc

Copyright (C) 2012 Grigori Goronzy <greg@kinoho.net>

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
OF THIS SOFTWARE.

</pre>

### AUTHORS File Information
```

Behdad Esfahbod
David Corbett
David Turner
Ebrahim Byagowi
Garret Rieger
Jonathan Kew
Khaled Hosny
Lars Knoll
Martin Hosken
Owen Taylor
Roderick Sheeter
Roozbeh Pournader
Simon Hausmann
```

Werner Lemberg

```
Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR
 CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
## Thai Dictionary

### Thai Dictionary License
<pre>

Copyright (C) 1982 The Royal Institute, Thai Royal Government.

Copyright (C) 1998 National Electronics and Computer Technology Center,
National Science and Technology Development Agency,
Ministry of Science Technology and Environment,
Thai Royal Government.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
```

copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

</pre>
## Apache Santuario v2.3.0

### Apache Santuario Notice
<pre>

Apache Santuario - XML Security for Java
Copyright 1999-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

It was originally based on software copyright (c) 2001, Institute for
Data Communications Systems, <http://www.nue.et-inf.uni-siegen.de/>.

The development of this software was partly funded by the European
Commission in the <WebSig> project in the ISIS Programme.

</pre>

### Apache 2.0 License
<pre>

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity
authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object
code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,

and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this
License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a

cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work,

excluding those notices that
do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from
the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not
grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions

of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless
required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except

in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

</pre>

ADDITIONAL INFORMATION ABOUT LICENSING

Certain files distributed by Oracle America, Inc. and/or its affiliates are
subject to the following clarification and special exception to the GPLv2,
based on the GNU Project exception for its Classpath libraries, known as the
GNU Classpath Exception.

Note that Oracle includes multiple, independent programs in this software
package. Some of those programs are provided under licenses deemed
incompatible with the GPLv2 by the Free Software Foundation and others.
For example, the package includes programs licensed under the Apache
License, Version 2.0 and may include FreeType. Such programs are licensed
to you under their original licenses.

Oracle facilitates your further distribution of this package by adding the
Classpath Exception to the necessary parts of its GPLv2 code, which permits
you to use that code in combination with other independent modules not
licensed under the GPLv2. However, note that this would
not permit you to
commingle code under an incompatible license with Oracle's GPLv2 licensed
code by, for example, cutting and pasting such code into a file also
containing Oracle's GPLv2 licensed code and then distributing the result.

Additionally, if you were to remove the Classpath Exception from any of the
files to which it applies and distribute the result, you would likely be
required to license some or all of the other code in that distribution under
the GPLv2 as well, and since the GPLv2 is incompatible with the license terms
of some items included in the distribution by Oracle, removing the Classpath
Exception could therefore effectively compromise your ability to further
distribute the package.

Failing to distribute notices associated with some files may also create
unexpected legal consequences.

Proceed with caution and we recommend that you obtain the advice of a lawyer
skilled in open source matters before removing the Classpath Exception or

making modifications
to this package which may subsequently be redistributed
and/or involve the use of third party software.
# This file contains a list of people who've made non-trivial
# contribution to the Google C++ Testing Framework project.  People
# who commit code to the project are encouraged to add their names
# here.  Please keep the list sorted by first names.

Ajay Joshi <jaj@google.com>
Balzs Dn <balazs.dan@gmail.com>
Bharat Mediratta <bharat@menalto.com>
Chandler Carruth <chandlerc@google.com>
Chris Prince <cprince@google.com>
Chris Taylor <taylorc@google.com>
Dan Egnor <egnor@google.com>
Eric Roman <eroman@chromium.org>
Hady Zalek <hady.zalek@gmail.com>
Jeffrey Yasskin <jyasskin@google.com>
Ji Sigursson <joi@google.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keith.ray@gmail.com>
Kenton Varda <kenton@google.com>
Manuel Klimek <klimek@google.com>
Markus Heule <markus.heule@gmail.com>
Mika Raento <mikie@iki.fi>
Mikls Fazekas <mfazekas@szemafor.com>
Pasi Valminen <pasi.valminen@gmail.com>
Patrick Hanna <phanna@google.com>
Patrick Riley <pfr@google.com>
Peter Kaminski <piotrk@google.com>
Preston
Jackson <preston.a.jackson@gmail.com>
Rainer Klaffenboeck <rainer.klaffenboeck@dynatrace.com>
Russ Cox <rsc@google.com>
Russ Rufer <russ@pentad.com>
Sean Mcafee <eefacm@gmail.com>
Sigurur sgeirsson <siggi@google.com>
Tracy Bialik <tracy@pentad.com>
Vadim Berman <vadimb@google.com>
Vlad Losev <vladl@google.com>
Zhanyong Wan <wan@google.com>
## OASIS PKCS #11 Cryptographic Token Interface v3.0

### OASIS PKCS #11 Cryptographic Token Interface License
<pre>

Copyright  OASIS Open 2020. All Rights Reserved.

All capitalized terms in the following text have the meanings assigned to them in the OASIS Intellectual Property Rights Policy (the "OASIS IPR Policy"). The full Policy may be found at the OASIS website: [http://www.oasis-open.org/policies-guidelines/ipr]

This document and translations of it may be copied and furnished to others, and derivative works that comment on or otherwise explain it or assist in its implementation may be prepared, copied, published, and distributed, in whole or in part, without restriction of any kind, provided that the above copyright notice and this section are included on all such copies and derivative works. However, this document itself may not be modified in any way, including by removing the copyright notice or references to OASIS, except as needed for the purpose of developing any
document or deliverable produced by an OASIS Technical Committee (in which case the rules applicable to copyrights, as set forth in the OASIS IPR Policy, must be followed) or as required to translate it into languages other than English.

The limited permissions granted above are perpetual and will not be revoked by OASIS or its successors or assigns.

This document and the information contained herein is provided on an "AS IS" basis and OASIS DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY THAT THE USE OF THE INFORMATION HEREIN WILL NOT INFRINGE ANY OWNERSHIP RIGHTS OR ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. OASIS AND ITS MEMBERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THIS DOCUMENT OR ANY PART THEREOF.

[OASIS requests that any OASIS Party or any other party that believes it has patent claims that would necessarily be infringed by implementations
of this OASIS Standards Final Deliverable, to notify OASIS TC Administrator and provide an indication of its willingness to grant patent licenses to such patent claims in a manner consistent with the IPR Mode of the OASIS Technical Committee that produced this deliverable.]

[OASIS invites any party to contact the OASIS TC Administrator if it is aware of a claim of ownership of any patent claims that would necessarily be infringed by implementations of this OASIS Standards Final Deliverable by a patent holder that is not willing to provide a license to such patent claims in a manner consistent with the IPR Mode of the OASIS Technical Committee that produced this OASIS Standards Final Deliverable. OASIS may include such claims on its website, but disclaims any obligation to do so.]

[OASIS takes no position regarding the validity or scope of any
intellectual property or other rights that might be claimed to pertain
to the implementation or use of the technology
described in this OASIS
Standards Final Deliverable or the extent to which any license under
such rights might or might not be available; neither does it represent
that it has made any effort to identify any such rights. Information on
OASIS' procedures with respect to rights in any document or deliverable
produced by an OASIS Technical Committee can be found on the OASIS
website. Copies of claims of rights made available for publication and
any assurances of licenses to be made available, or the result of an
attempt made to obtain a general license or permission for the use of
such proprietary rights by implementers or users of this OASIS Standards
Final Deliverable, can be obtained from the OASIS TC Administrator.
OASIS makes no representation that any information or list of
intellectual property rights will at any time be complete, or that any
claims in such list are, in fact, Essential Claims.]

</pre>
## Cryptix AES v3.2.0

### Cryptix General License
<pre>

Cryptix General License

Copyright (c) 1995-2005 The Cryptix Foundation Limited.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1. Redistributions of source code must retain the copyright notice,
   this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in
   the documentation and/or other materials provided with the
   distribution.

THIS SOFTWARE IS PROVIDED BY THE CRYPTIX FOUNDATION LIMITED AND
CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE CRYPTIX FOUNDATION LIMITED OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT,

INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN
IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

</pre>
## International Components for Unicode (ICU4J) v60.2

### ICU4J License

```

UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE
Unicode Data Files include all data files under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/,
http://source.icu-project.org/repos/icu/, and
http://www.unicode.org/utility/trac/browser/.

Unicode Data Files do not include PDF online code charts under the
directory http://www.unicode.org/Public/.

Software includes any source code published in the Unicode Standard
or under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/,
http://source.icu-project.org/repos/icu/, and
http://www.unicode.org/utility/trac/browser/.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT,
AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright  1991-2018 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
```

(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission
notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.

```
## libpng v1.6.38

### libpng License
<pre>

COPYRIGHT NOTICE, DISCLAIMER, and LICENSE
=========================================

PNG Reference Library License version 2
---------------------------------------

Copyright (c) 1995-2022 The PNG Reference Library Authors.
Copyright (c) 2018-2022 Cosmin Truta
Copyright (c) 1998-2018 Glenn Randers-Pehrson
Copyright (c) 1996-1997 Andreas Dilger
Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

The software is supplied "as is", without warranty of any kind,
express or implied, including, without limitation, the warranties
```

of merchantability, fitness for a particular purpose, title, and
non-infringement.  In no event shall the Copyright owners, or
anyone distributing the software, be liable for any damages or
other liability, whether in contract, tort or otherwise, arising
from, out of, or in connection with the software, or the use or
other dealings in the software, even if advised of the possibility
of such damage.

Permission is hereby
 granted to use, copy, modify, and distribute
this software, or portions hereof, for any purpose, without fee,
subject to the following restrictions:

1. The origin of this software must not be misrepresented; you
   must not claim that you wrote the original software.  If you
   use this software in a product, an acknowledgment in the product
   documentation would be appreciated, but is not required.

2. Altered source versions must be plainly marked as such, and must
   not be misrepresented as being the original software.

3. This Copyright notice may not be removed or altered from any
   source or altered source distribution.

PNG Reference Library License version 1 (for libpng 0.5 through 1.6.35)
---

libpng versions 1.0.7, July 1, 2000, through 1.6.35, July 15, 2018 are
Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson, are
derived from libpng-1.0.6, and are distributed according to the
 same
disclaimer and license as libpng-1.0.6 with the following individuals
added to the list of Contributing Authors:

   Simon-Pierre Cadieux
   Eric S. Raymond
   Mans Rullgard
   Cosmin Truta
   Gilles Vollant
   James Yu
   Mandar Sahastrabuddhe
   Google Inc.
   Vadim Barkov

and with the following additions to the disclaimer:

   There is no warranty against interference with your enjoyment of

the library or against infringement.  There is no warranty that our
efforts or the library will fulfill any of your particular purposes
or needs.  This library is provided with all faults, and the entire
risk of satisfactory quality, performance, accuracy, and effort is
with the user.

Some files in the "contrib" directory and some configure-generated
files that are distributed with libpng have other copyright owners, and
are released under other open source licenses.

libpng versions 0.97, January 1998, through 1.0.6, March 20, 2000, are
Copyright (c) 1998-2000
 Glenn Randers-Pehrson, are derived from
libpng-0.96, and are distributed according to the same disclaimer and
license as libpng-0.96, with the following individuals added to the
list of Contributing Authors:

Tom Lane
Glenn Randers-Pehrson
Willem van Schaik

libpng versions 0.89, June 1996, through 0.96, May 1997, are
Copyright (c) 1996-1997 Andreas Dilger, are derived from libpng-0.88,
and are distributed according to the same disclaimer and license as
libpng-0.88, with the following individuals added to the list of
Contributing Authors:

John Bowler
Kevin Bracey
Sam Bushell
Magnus Holmgren
Greg Roelofs
Tom Tanner

Some files in the "scripts" directory have other copyright owners,
but are released under this license.

libpng versions 0.5, May 1995, through 0.88, January 1996, are
Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

For the purposes of this copyright and license, "Contributing Authors"
is defined as the following set of individuals:

Andreas Dilger
Dave Martindale
Guy Eric Schalnat
Paul Schmidt
Tim Wegner

The PNG Reference Library is supplied "AS IS". The Contributing Authors and Group 42, Inc. disclaim all warranties, expressed or implied, including, without limitation, the warranties of merchantability and of fitness for any purpose. The Contributing Authors and Group 42, Inc. assume no liability for direct, indirect, incidental, special, exemplary, or consequential damages, which may result from the use of the PNG Reference Library, even if advised of the possibility of such damage.

Permission is hereby granted to use, copy, modify, and distribute this source code, or portions hereof, for any purpose, without fee, subject to the following restrictions:

1. The origin of this source code must not be misrepresented.

2. Altered versions must be plainly marked as such and must not be misrepresented as being the original source.

3. This Copyright notice may not be removed or
altered from any
source or altered source distribution.

The Contributing Authors and Group 42, Inc. specifically permit, without fee, and encourage the use of this source code as a component to supporting the PNG file format in commercial products. If you use this source code in a product, acknowledgment is not required but would be appreciated.

TRADEMARK
=========

The name "libpng" has not been registered by the Copyright owners as a trademark in any jurisdiction. However, because libpng has been distributed and maintained world-wide, continually since 1995, the Copyright owners claim "common-law trademark protection" in any jurisdiction where common-law trademark is recognized.

</pre>

### AUTHORS File Information
```
PNG REFERENCE LIBRARY AUTHORS
=============================

This is the list of PNG Reference Library ("libpng") Contributing Authors, for copyright and licensing purposes.
```

* Andreas Dilger
* Cosmin Truta
* Dave Martindale
* Eric S. Raymond
* Gilles Vollant
 * Glenn Randers-Pehrson
* Greg Roelofs
* Guy Eric Schalnat
* James Yu
* John Bowler
* Kevin Bracey
* Magnus Holmgren
* Mandar Sahastrabuddhe
* Mans Rullgard
* Matt Sarett
* Mike Klein
* Pascal Massimino
* Paul Schmidt
* Qiang Zhou
* Sam Bushell
* Samuel Williams
* Simon-Pierre Cadieux
* Tim Wegner
* Tom Lane
* Tom Tanner
* Vadim Barkov
* Willem van Schaik
* Zhijie Liang
* Arm Holdings
  - Richard Townsend
* Google Inc.
  - Matt Sarett
  - Mike Klein
  - Dan Field
  - Sami Boukortt

The build projects, the build scripts, the test scripts, and other
files in the "ci", "projects", "scripts" and "tests" directories, have
other copyright owners, but are released under the libpng license.

Some files in the "contrib" directory, and some tools-generated files
that are distributed with libpng, have other copyright owners, and are
released under other open source licenses.
```

All images in this directory are copyright 1995 by Jeff Dinkins.
## JRuby Joni v2.1.16
```

### MIT License
<pre>

Copyright (c) 2017 JRuby Team

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING
 FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

</pre>
## GIFLIB v5.2.1

### GIFLIB License
```

The GIFLIB distribution is Copyright (c) 1997  Eric S. Raymond

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
```

TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

https://sourceforge.net/p/giflib/code/ci/master/tree/openbsd-reallocarray.c

Copyright (c) 2008 Otto Moerbeek <otto@drijf.net>
SPDX-License-Identifier: MIT

All images in this directory are copyright 1995 by Jeff Dinkins.
Unauthorized reproduction is prohibited.

For more information about Jeff's photographs, please see:
    http://www.theFixx.org/Jeff
## Unicode Common Local Data Repository (CLDR) v33

### CLDR License

```

UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE
Unicode Data Files include all data files under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/,
http://source.icu-project.org/repos/icu/, and
http://www.unicode.org/utility/trac/browser/.

Unicode Data Files do not include PDF online code charts under the
directory http://www.unicode.org/Public/.

Software includes any source code published in the Unicode Standard
or under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/,
http://source.icu-project.org/repos/icu/, and
http://www.unicode.org/utility/trac/browser/.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT,
 AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE
```

Copyright  1991-2018 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission
 notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.

```
## Mozilla Public Suffix List

### Public Suffix Notice
```
You are receiving a copy of the Mozilla Public Suffix List in the following
file: <java-home>/lib/security/public_suffix_list.dat. The terms of the
Oracle license do NOT apply to this file; it is licensed under the
Mozilla Public License 2.0, separately from the Oracle programs you receive.
If you do not wish to use the Public Suffix List, you may remove the
<java-home>/lib/security/public_suffix_list.dat file.

The Source Code of this file is available under the
Mozilla Public License, v. 2.0 and is located at

https://raw.githubusercontent.com/publicsuffix/list/3c213aab32b3c014f171b1673d4ce9b5cd72bf1c/public_suffix_list.dat.
If a copy of the MPL was not distributed with this file, you can obtain one
at https://mozilla.org/MPL/2.0/.

Software distributed under the License is distributed on an "AS IS" basis,
WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License
for the specific language governing rights and limitations
 under the License.
```

### MPL v2.0
```
Mozilla Public License Version 2.0
==================================

1. Definitions
--------------

1.1. "Contributor"
  means each individual or legal entity that creates, contributes to
  the creation of, or owns Covered Software.

1.2. "Contributor Version"
  means the combination of the Contributions of others (if any) used
  by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
  means Covered Software of a particular Contributor.

1.4. "Covered Software"
  means Source Code Form to which the initial Contributor has attached
  the notice in Exhibit A, the Executable Form of such Source Code
  Form, and Modifications of such Source Code Form, in each case
  including portions thereof.

1.5. "Incompatible With Secondary Licenses"
  means

  (a) that the initial Contributor has attached the notice described
      in Exhibit B to the Covered Software; or

  (b) that the Covered
 Software was made available under the terms of
      version 1.1 or earlier of the License, but not also under the
      terms of a Secondary License.

1.6. "Executable Form"
```
```

means any form of the work other than Source Code Form.

1.7. "Larger Work"
means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. "License"
means this document.

1.9. "Licensable"
means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. "Modifications"
means any of the following:

(a) any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

(b) any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor
means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"
means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"
means the form of the work preferred for making modifications.

1.14. "You" (or "Your")
means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect,

to cause the direction or management of such entity,
whether by contract or otherwise, or (b) ownership of more than
fifty percent (50%) of the outstanding shares or beneficial
ownership of such entity.

2. License Grants and Conditions
---

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free,
non-exclusive license:

(a) under intellectual property rights (other than patent or trademark)
Licensable by such Contributor to use, reproduce, make available,
modify, display, perform, distribute, and otherwise exploit its
Contributions, either on an unmodified basis, with Modifications, or
as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer
for sale, have made, import, and otherwise transfer either its
Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution
become effective for
each Contribution on the date the Contributor first
distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
this License. No additional rights or licenses will be implied from the
distribution or licensing of Covered Software under this License.
Notwithstanding Section 2.1(b) above, no patent license is granted by a
Contributor:

(a) for any code that a Contributor has removed from Covered Software;
or

(b) for infringements caused by: (i) Your and any other third party's
modifications of Covered Software, or (ii) the combination of its
Contributions with other software (except as part of its Contributor
Version); or

(c) under Patent Claims infringed by Covered Software in the absence of
its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section
3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities
---

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms
of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3.
Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known
factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation

---

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination
---

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

**********
*
*
* 6. Disclaimer of Warranty *
* ---------- *

```
*                                                                      *
*  Covered Software is provided under this License on an "as is"       *
*  basis, without warranty of any kind, either expressed, implied, or  *
*  statutory, including, without limitation, warranties that the       *
*  Covered Software is free of defects, merchantable, fit for a        *
*  particular purpose or non-infringing. The entire risk as to the     *
*  quality and performance of the Covered Software is with You.        *
*  Should any Covered Software prove defective in any respect, You     *
*  (not any Contributor) assume the cost of any necessary servicing,   *
*  repair, or correction. This disclaimer of warranty constitutes an   *
*
 essential part of this License. No use of any Covered Software is   *
*  authorized under this License except under this disclaimer.         *
*                                                                      *
************************************************************************

************************************************************************
*                                                                      *
*  7. Limitation of Liability                                          *
*  --------------------------                                          *
*                                                                      *
*  Under no circumstances and under no legal theory, whether tort      *
*  (including negligence), contract, or otherwise, shall any           *
*  Contributor, or anyone who distributes Covered Software as          *
*  permitted above, be liable to You for any direct, indirect,         *
*  special, incidental, or consequential damages of any
 character      *
*  including, without limitation, damages for lost profits, loss of    *
*  goodwill, work stoppage, computer failure or malfunction, or any    *
*  and all other commercial damages or losses, even if such party      *
*  shall have been informed of the possibility of such damages. This   *
*  limitation of liability shall not apply to liability for death or   *
*  personal injury resulting from such party's negligence to the       *
*  extent applicable law prohibits such limitation. Some               *
*  jurisdictions do not allow the exclusion or limitation of           *
*  incidental or consequential damages, so this exclusion and          *
*  limitation may not apply to You.                                    *
*                                                                      *
************************************************************************

8. Litigation
-------------

Any litigation relating to this License may be brought only in the
courts
 of a jurisdiction where the defendant maintains its principal
place of business and such litigation shall be governed by laws of that
jurisdiction, without reference to its conflict-of-law provisions.
```

Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

9. Miscellaneous
---

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License
---

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License.
Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses

If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
---

This Source Code Form is subject to the terms of the Mozilla Public
License, v. 2.0. If a copy of the MPL was not distributed with this
file, You can obtain one at https://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular
file, then You may include the notice in a location (such as a LICENSE
file in a relevant directory) where a recipient would be likely to look
for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice
---

This Source Code Form is "Incompatible With Secondary Licenses", as
defined by the Mozilla Public License, v. 2.0.

```
Copyright (c) %YEARS% Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.
## c-libutl 20160225

### c-libutl License
```

This software is distributed under the terms of the BSD license.

== BSD LICENSE ==========

(C) 2009 by Remo Dentato (rdentato@gmail.com)

Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT
 SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

http://opensource.org/licenses/bsd-license.php

```
## Apache Xerces v2.12.2

### Apache Xerces Notice
<pre>
  ========================================================================
  == NOTICE file corresponding to section 4(d) of the Apache License,    ==
  == Version 2.0, in this case for the Apache Xerces Java distribution.  ==
  ========================================================================

  Apache Xerces Java
  Copyright 1999-2022 The Apache Software Foundation

  This product includes software developed at
  The Apache Software Foundation (http://www.apache.org/).

  Portions of this software were originally based on the following:
  - software copyright (c) 1999, IBM Corporation., http://www.ibm.com.
  - software copyright (c) 1999, Sun Microsystems., http://www.sun.com.
  - voluntary contributions made by Paul Eng on behalf of the
  Apache Software Foundation that were originally developed at iClick, Inc.,
  software copyright (c) 1999.
```

</pre>

### Apache 2.0 License
<pre>

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean
an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the

editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work
of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work,
but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make,
have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate

as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients
of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with
the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any

Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of
TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such
damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should
be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

</pre>
## Pako v1.0

### Pako License
<pre>
Copyright (C) 2014-2017 by Vitaly Puzrin and Andrei Tuputcyn

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER

LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
(C) 1995-2013 Jean-loup Gailly and Mark Adler
(C) 2014-2017 Vitaly Puzrin and Andrey Tupitsin

This software is provided 'as-is', without any express or implied
warranty. In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
claim that you wrote the original software. If you use this software
in a product, an acknowledgment in the product documentation would be
appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
misrepresented as being the original software.
3. This notice may not be removed or altered from any
source distribution.

</pre>
## IAIK (Institute for Applied Information Processing and Communication) PKCS#11 wrapper files v1

### IAIK License
<pre>

Copyright (c) 2002 Graz University of Technology. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this
list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

3. The end-user documentation included with the redistribution, if any, must
include the following acknowledgment:

"This product includes software developed by IAIK of Graz University of
Technology."

Alternately, this acknowledgment may appear in the software itself, if and wherever such third-party
acknowledgments normally appear.

4. The names "Graz University of Technology" and "IAIK of Graz University of Technology" must not be used to endorse or promote products derived from this software without prior written permission.

5. Products derived from this software may not be called "IAIK PKCS Wrapper", nor may "IAIK" appear in their name, without prior written permission of Graz University of Technology.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE LICENSOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

</pre>
UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE

Unicode Data Files include all data files under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/, and
http://www.unicode.org/cldr/data/. Unicode Data Files do not include PDF
online code charts under the directory http://www.unicode.org/Public/.
Software includes any source code published in the Unicode Standard or under
the directories http://www.unicode.org/Public/,
http://www.unicode.org/reports/, and http://www.unicode.org/cldr/data/.

NOTICE TO USER: Carefully read the following legal agreement. BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"), YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE TERMS AND CONDITIONS OF THIS AGREEMENT. IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright 1991-2016 Unicode,
Inc. All rights reserved. Distributed under
the Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining a copy of the Unicode data files and any associated documentation (the "Data Files") or Unicode software and any associated documentation (the "Software") to deal in the Data Files or Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, and/or sell copies of the Data Files or Software, and to permit persons to whom the Data Files or Software are furnished to do so, provided that (a) the above copyright notice(s) and this permission notice appear with all copies of the Data Files or Software, (b) both the above copyright notice(s) and this permission notice appear in associated documentation, and (c) there is clear notice in each modified Data File or in the Software as well as in the documentation associated with the Data File(s) or Software that the data or software has been modified.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in these Data Files or Software without prior written authorization of the copyright holder.

The GIFLIB distribution is Copyright (c) 1997  Eric S. Raymond

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT

OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
## JSZip v3.7.1

JSZip is dual licensed. You may use it under the MIT license *or* the GPLv3 license.

### The MIT License
```
Copyright (c) 2009-2016 Stuart Knightley, David Duponchel, Franz Buchinger, Antnio Afonso

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
 OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

### GPL version 3
```
                    GNU GENERAL PUBLIC LICENSE
                       Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

                            Preamble

 The GNU General Public License is a free, copyleft license for
software and other kinds of works.

 The licenses for most software and other practical works are designed
to take away your freedom to share and change the works.  By contrast,
```

the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its
users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must
pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such
abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the
GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making
available to the
public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2)

tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A
"Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means
all
the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that

same work.

2. Basic Permissions.

All rights granted
under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met. This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a
covered work is covered by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force. You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright. Those thus making or running the covered works
for you must do so exclusively on your behalf, under
your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed; section 10
makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users,
your or third parties' legal rights to forbid circumvention of
technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other

parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided

you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer
product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source
conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and

adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some

trade names, trademarks, or service marks; or

f) Requiring indemnification
of licensors and authors of that
material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files,
a statement of the
additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover,
your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have

received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other
than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under
the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties

receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent
license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that
obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING

BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS
```

## Double-conversion v1.1.5

### Double-conversion License

https://raw.githubusercontent.com/google/double-conversion/master/LICENSE

<pre>

Copyright 2006-2011, the V8 project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
 notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
 copyright notice, this list of conditions and the following
 disclaimer in the documentation and/or other materials provided
 with the distribution.
* Neither the name of Google Inc. nor the names of its
 contributors may be used to endorse or promote products derived
 from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING,
 BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
```

DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

</pre>
## jQuery UI v1.12.1

### jQuery UI License
```
Copyright jQuery Foundation and other contributors, https://jquery.org/

This software consists of voluntary contributions made by many
individuals. For exact contribution history, see the revision history
available at https://github.com/jquery/jquery-ui

The following license applies to all parts of this software except as
documented below:

====

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT
 WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====

Copyright and related rights for sample code are waived via CC0. Sample
code is defined as all source code contained within the demos directory.

CC0: http://creativecommons.org/publicdomain/zero/1.0/
```

====

All files located in the node_modules and external directories are
externally maintained libraries used by this software which have their
own licenses; we recommend you read them, as their terms may differ from
the terms above.

```
## zlib v1.2.13

### zlib License
<pre>

Copyright (C) 1995-2022 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied
warranty.  In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
  claim that you wrote the original software. If you use this software
  in a product, an acknowledgment in the product documentation would be
  appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
  misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

</pre>
## Eastman Kodak Company: Portions of color management and imaging software

### Eastman Kodak Notice
<pre>
Portions Copyright Eastman Kodak Company 1991-2003
</pre>
Copyright (c) %YEARS% Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
```

by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact
 Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.
## DOM Level 3 Core Specification v1.0

### W3C Software Notice
<pre>
Copyright  2004 World Wide Web Consortium, (Massachusetts Institute of Technology,
European Research Consortium for Informatics and Mathematics, Keio University).
All Rights Reserved.

The DOM bindings are published under the W3C Software Copyright Notice and License.
The software license requires "Notice of any changes or modifications to the W3C
files, including the date changes were made." Consequently, modified versions of
the DOM bindings must document that they do not conform to the W3C standard; in the
case of the IDL definitions, the pragma prefix can no longer be 'w3c.org'; in the
case of the Java language binding, the package names can no longer be in the
'org.w3c' package.
</pre>

### W3C License
<pre>

W3C SOFTWARE NOTICE AND LICENSE

http://www.w3.org/Consortium/Legal/2002/copyright-software-20021231

This work (and included software, documentation such as READMEs, or other
related items) is being provided
 by the copyright holders under the following
license. By obtaining, using and/or copying this work, you (the licensee)
agree that you have read, understood, and will comply with the following terms
and conditions.

Permission to copy, modify, and distribute this software and its

documentation, with or without modification, for any purpose and without fee or royalty is hereby granted, provided that you include the following on ALL copies of the software and documentation or portions thereof, including modifications:

1.The full text of this NOTICE in a location viewable to users of the redistributed or derivative work.

2.Any pre-existing intellectual property disclaimers, notices, or terms and conditions. If none exist, the W3C Software Short Notice should be included (hypertext is preferred, text is permitted) within the body of any redistributed or derivative code.

3.Notice of any changes or modifications to the files, including the date changes were made.
(We recommend you provide URIs to the location from which the code is derived.)

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE OR DOCUMENTATION WILL NOT INFRINGE ANY THIRD PARTY PATENTS,COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE SOFTWARE OR DOCUMENTATION. The name and trademarks of copyright holders may NOT be used in advertising or publicity pertaining to the software without specific, written prior permission. Title to copyright in this software and any associated documentation will at all times remain with copyright holders.

---

This formulation of W3C's notice and license became active on December 31 2002. This
version removes the copyright ownership notice such that this license can be used with materials other than those owned by the W3C, reflects that ERCIM is now a host of the W3C, includes references to this specific dated version of the license, and removes the ambiguous grant of "use". Otherwise, this version is the same as the previous version and is written so as to preserve the Free Software Foundation's assessment of GPL compatibility and OSI's certification under the Open Source Definition. Please see our Copyright FAQ for common questions about using materials from our site, including specific terms and conditions for packages like libwww, Amaya, and Jigsaw. Other questions about this notice can be directed to site-policy@w3.org.

</pre>

## JLine v3.20.0

### JLine License
<pre>

Copyright (c) 2002-2018, the original author or authors.
All rights reserved.

https://opensource.org/licenses/BSD-3-Clause

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the following
conditions are met:

Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with
the distribution.

Neither the name of JLine nor the names of its contributors
may be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING,
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.

4th Party Dependency
==========
org.fusesource.jansi version 1.17.1
org.apache.sshd 2.1 to 3
org.apache.felix.gogo.runtime 1.1.2
org.apache.felix.gogo.jline 1.1.4

==========

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions
for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source,
and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,

the Work and Derivative
Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall
mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You

meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files
to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works,
if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in
the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT,
MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility
of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include

the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

==========

juniversalchardet

The library is subject to the Mozilla Public License Version
1.1.

Alternatively, the library may be used under the terms of either the GNU General Public License Version 2 or later, or the GNU Lesser General Public License 2.1 or later.

==========

slf4j

SLF4J source code and binaries are distributed under the MIT license.

Copyright (c) 2004-2017 QOS.ch
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be

included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

These terms are identical to those of the MIT License, also called the X License
or the X11 License, which is a simple, permissive non-copyleft free software license.
It is deemed compatible with virtually all types of licenses, commercial or otherwise.
In particular, the Free Software Foundation has declared it compatible with GNU GPL.
It is also known to be approved by the Apache Software Foundation as compatible with
Apache Software License.

</pre>
## jopt-simple v5.0.4

### MIT License
<pre>

Copyright (c) 2004-2015 Paul R. Holser, Jr.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

</pre>

## Independent JPEG Group: JPEG release 6b

### JPEG License
<pre>

Must reproduce following license in documentation and/or other materials
provided with distribution:

The authors make NO WARRANTY or representation, either express or implied,
with respect to this software, its quality, accuracy, merchantability, or
fitness for a particular purpose.  This software is provided "AS IS",
and you, its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-1998, Thomas G. Lane.
All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute
this software (or portions thereof) for any purpose, without fee,
subject to these conditions:

(1) If any part of the source code for this software is distributed,
then this README file must be included, with this copyright and no-warranty
notice unaltered; and any additions, deletions, or changes to the original
files must be clearly indicated in accompanying documentation.

(2)
 If only executable code is distributed, then the accompanying documentation
must state that "this software is based in part on the work of the
Independent JPEG Group".

(3) Permission for use of this software is granted only if the user accepts
full responsibility for any undesirable consequences; the authors accept
NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code,
not just to the unmodified library.  If you use our work, you ought to
acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name
in advertising or publicity relating to this software or products derived
from it.  This software may be referred to only as "the Independent JPEG
Group's software".

We specifically permit and encourage the use of this software as the basis
of commercial products, provided that all warranty or liability claims are
assumed by the product vendor.

ansi2knr.c is included in this
 distribution by permission of L. Peter Deutsch,
sole proprietor of its copyright holder, Aladdin Enterprises of Menlo Park, CA.
ansi2knr.c is NOT covered by the above copyright and conditions, but instead
by the usual distribution terms of the Free Software Foundation; principally,
that you must include source code if you redistribute it.
(See the file ansi2knr.c for full details.)  However, since ansi2knr.c is
not needed as part of any program generated from the IJG code, this does not
limit you more than the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf.
It is copyright by the Free Software Foundation but is freely distributable.
The same holds for its supporting scripts (config.guess, config.sub,
ltconfig, ltmain.sh).  Another support script, install-sh, is copyright
by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered
by patents owned by IBM, AT&T, and Mitsubishi.
 Hence arithmetic coding
cannot legally be used without obtaining one or more licenses.  For this
reason, support for arithmetic coding has been removed from the free
JPEG software. (Since arithmetic coding provides only a marginal gain
over the unpatented Huffman mode, it is unlikely that very many
implementations will support it.) So far as we are aware, there are
no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support
has been removed altogether, and the GIF writer has been simplified to
produce "uncompressed GIFs".  This technique does not use the LZW algorithm;
the resulting GIF files are larger than usual, but are readable by all
standard GIF decoders.

We are required to state that "The Graphics Interchange Format(c) is
the Copyright property of CompuServe Incorporated.  GIF(sm) is a
Service Mark property of CompuServe Incorporated."

</pre>
## jQuery v3.6.1

### jQuery License
```
jQuery v 3.6.1
Copyright OpenJS Foundation and other contributors, https://openjsf.org/

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
```

without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER
IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

**********

The jQuery JavaScript Library v3.6.1 also includes Sizzle.js

Sizzle.js includes the following license:

Copyright JS Foundation and other contributors, https://js.foundation/

This software consists of voluntary contributions made by many
individuals. For exact contribution history, see the revision history
available at https://github.com/jquery/sizzle

The following license applies to all parts of this software except as
documented below:

====

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons
to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF

MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====

All files located in the node_modules and external directories are
externally maintained libraries used by this software which have their
own licenses; we recommend you read them, as their terms may differ from
the terms above.

**********

```
## Apache Xalan v2.7.2

### Apache Xalan Notice
<pre>

================================================================================
====
  ==  NOTICE file corresponding to the section 4d of the Apache License, Version 2.0, ==
  ==  in this case for the Apache Xalan distribution.                           ==
================================================================================
====

 This product includes software developed by
 The Apache Software Foundation (http://www.apache.org/).

 Specifically, we only include the XSLTC portion of the source from the Xalan distribution.
 The Xalan project has two processors: an interpretive one (Xalan Interpretive) and a
 compiled one (The XSLT Compiler (XSLTC)). We *only* use the XSLTC part of Xalan; We use
 the source from the packages that are part of the XSLTC sources.

 Portions of this software was originally based on the following:

   - software copyright (c) 1999-2002, Lotus Development Corporation.,
http://www.lotus.com.
   - software copyright (c) 2001-2002, Sun Microsystems., http://www.sun.com.
   - software copyright (c) 2003, IBM Corporation., http://www.ibm.com.
   - voluntary contributions made by Ovidiu Predescu (ovidiu@cup.hp.com) on behalf of the
     Apache Software Foundation and was originally developed at Hewlett Packard Company.

</pre>

### Apache 2.0 License
```

<pre>

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control,
are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made
available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain

separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the

Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed

with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing
the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including
any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted
against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following

boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to
in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

JLEX COPYRIGHT NOTICE, LICENSE AND DISCLAIMER.
Copyright 1996-2003 by Elliot Joel Berk and C. Scott Ananian
Permission to use, copy, modify, and distribute this software and
its documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both the copyright notice and this permission notice and warranty
disclaimer appear in supporting documentation, and that the name of
the authors or their employers not be used in advertising or publicity
pertaining to distribution of the software without specific, written
prior permission.
The authors and their employers disclaim all warranties with regard to
this software, including all implied warranties of merchantability
and
fitness. In no event shall the authors or their employers be liable for
any special, indirect or consequential damages or any damages whatsoever
resulting from loss of use, data or profits, whether in an action of
contract, negligence or other tortious action, arising out of or in
connection with the use or performance of this software.The portions of
JLex output which are hard-coded into the JLex source code are (naturally)
covered by this same license.

</pre>
COPYRIGHT NOTICE, DISCLAIMER, and LICENSE
==========

PNG Reference Library License version 2
---

* Copyright (c) 1995-2022 The PNG Reference Library Authors.
* Copyright (c) 2018-2022 Cosmin Truta.
* Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson.
* Copyright (c) 1996-1997 Andreas Dilger.
* Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

The software is supplied "as is", without warranty of any kind,
express or implied, including, without limitation, the warranties
of merchantability, fitness for a particular purpose, title, and
non-infringement.  In no event shall the Copyright owners, or
anyone distributing the software, be liable for any damages or
other liability, whether in contract, tort or otherwise, arising
from, out of, or in connection with the software, or the use or
other dealings in the software, even if advised of the possibility
of such damage.

Permission is hereby granted
 to use, copy, modify, and distribute
this software, or portions hereof, for any purpose, without fee,
subject to the following restrictions:

1. The origin of this software must not be misrepresented; you
   must not claim that you wrote the original software.  If you
   use this software in a product, an acknowledgment in the product
   documentation would be appreciated, but is not required.

2. Altered source versions must be plainly marked as such, and must
   not be misrepresented as being the original software.

3. This Copyright notice may not be removed or altered from any
   source or altered source distribution.

PNG Reference Library License version 1 (for libpng 0.5 through 1.6.35)
---

libpng versions 1.0.7, July 1, 2000, through 1.6.35, July 15, 2018 are
Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson, are
derived from libpng-1.0.6, and are distributed according to the same
disclaimer
 and license as libpng-1.0.6 with the following individuals
added to the list of Contributing Authors:

   Simon-Pierre Cadieux

Eric S. Raymond
Mans Rullgard
Cosmin Truta
Gilles Vollant
James Yu
Mandar Sahastrabuddhe
Google Inc.
Vadim Barkov

and with the following additions to the disclaimer:

There is no warranty against interference with your enjoyment of the library or against infringement. There is no warranty that our efforts or the library will fulfill any of your particular purposes or needs. This library is provided with all faults, and the entire risk of satisfactory quality, performance, accuracy, and effort is with the user.

Some files in the "contrib" directory and some configure-generated files that are distributed with libpng have other copyright owners, and are released under other open source licenses.

libpng versions 0.97, January 1998, through 1.0.6, March 20, 2000, are Copyright (c) 1998-2000 Glenn Randers-Pehrson,
are derived from
libpng-0.96, and are distributed according to the same disclaimer and license as libpng-0.96, with the following individuals added to the list of Contributing Authors:

Tom Lane
Glenn Randers-Pehrson
Willem van Schaik

libpng versions 0.89, June 1996, through 0.96, May 1997, are Copyright (c) 1996-1997 Andreas Dilger, are derived from libpng-0.88, and are distributed according to the same disclaimer and license as libpng-0.88, with the following individuals added to the list of Contributing Authors:

John Bowler
Kevin Bracey
Sam Bushell
Magnus Holmgren
Greg Roelofs
Tom Tanner

Some files in the "scripts" directory have other copyright owners, but are released under this license.

libpng versions 0.5, May 1995, through 0.88, January 1996, are
Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

For the purposes of this copyright and license, "Contributing Authors"
is defined as the following set of individuals:

Andreas Dilger
Dave Martindale
Guy Eric Schalnat
Paul Schmidt
Tim Wegner

The PNG Reference Library is supplied "AS IS". The Contributing
Authors and Group 42, Inc. disclaim all warranties, expressed or
implied, including, without limitation, the warranties of
merchantability and of fitness for any purpose. The Contributing
Authors and Group 42, Inc. assume no liability for direct, indirect,
incidental, special, exemplary, or consequential damages, which may
result from the use of the PNG Reference Library, even if advised of
the possibility of such damage.

Permission is hereby granted to use, copy, modify, and distribute this
source code, or portions hereof, for any purpose, without fee, subject
to the following restrictions:

1. The origin of this source code must not be misrepresented.

2. Altered versions must be plainly marked as such and must not
be misrepresented as being the original source.

3. This Copyright notice may not be removed or altered from
any
source or altered source distribution.

The Contributing Authors and Group 42, Inc. specifically permit,
without fee, and encourage the use of this source code as a component
to supporting the PNG file format in commercial products. If you use
this source code in a product, acknowledgment is not required but would
be appreciated.
## CUP Parser Generator for Java v 0.11b

### CUP Parser Generator License

```
Copyright 1996-2015 by Scott Hudson, Frank Flannery, C. Scott Ananian, Michael Petter

Permission to use, copy, modify, and distribute this software and its
```

documentation for any purpose and without fee is hereby granted, provided
that the above copyright notice appear in all copies and that both
the copyright notice and this permission notice and warranty disclaimer
appear in supporting documentation, and that the names of the authors or
their employers not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior permission.

The authors and their employers disclaim all warranties with regard to
this software, including all implied warranties of merchantability and
fitness. In no event shall the authors or their employers be liable for
any special, indirect or consequential damages or any damages whatsoever
resulting from loss of use, data or profits, whether
 in an action of
contract, negligence or other tortious action, arising out of or in
connection with the use or performance of this software.
```

---
```

This is an open source license. It is also GPL-Compatible (see entry for
"Standard ML of New Jersey"). The portions of CUP output which are hard-coded
into the CUP source code are (naturally) covered by this same license, as is
the CUP runtime code linked with the generated parser.
```

The GNU General Public License (GPL)

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license
document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share
and change it.  By contrast, the GNU General Public License is intended to
guarantee your freedom to share and change free software--to make sure the
software is free for all its users.  This General Public License applies to
most of the Free Software Foundation's software and to any other program whose
authors commit to using it.  (Some other Free Software Foundation software is
covered by the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not price.  Our
General Public Licenses are designed to make sure that
 you have the freedom to
distribute copies of free software (and charge for this service if you wish),
```

that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also,
for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be
distributed under the terms of
this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by

this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided
that you conspicuously and
appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to
be
licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its
terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire

whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute
the Program except as
expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically
receives a license from the original licensor to
copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you,
then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that

system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE
PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How
to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.

Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author Gnomovision comes
with ABSOLUTELY NO WARRANTY; for details type 'show w'. This is free
software, and you are welcome to redistribute it under certain conditions;
type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may be
called something
other than 'show w' and 'show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school,
if any, to sign a "copyright disclaimer" for the program, if necessary. Here
is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General Public
License instead of this License.

"CLASSPATH" EXCEPTION TO THE GPL

Certain source files distributed by Oracle America and/or its affiliates are
subject to the following
clarification and special exception to the GPL, but
only where Oracle has expressly included in the particular source file's header
the words "Oracle designates this particular file as subject to the "Classpath"
exception as provided by Oracle in the LICENSE file that accompanied this code."

Linking this library statically or dynamically with other modules is making
a combined work based on this library. Thus, the terms and conditions of
the GNU General Public License cover the whole combination.

As a special exception, the copyright holders of this library give you
permission to link this library with independent modules to produce an
executable, regardless of the license terms of these independent modules,
and to copy and distribute the resulting executable under terms of your
choice, provided that you also meet, for each linked independent module,
the terms and conditions of the license of that module. An independent

module is a module
which is not derived from or based on this library. If
you modify this library, you may extend this exception to your version of
the library, but you are not obligated to do so. If you do not wish to do
so, delete this exception statement from your version.
## Apache Commons Byte Code Engineering Library (BCEL) Version 6.5.0

### Apache Commons BCEL Notice
<pre>

Apache Commons BCEL
Copyright 2004-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

</pre>

### Apache 2.0 License
<pre>

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity.
For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,

including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for
that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution
notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution

notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms
and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE
file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages
of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor

has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty
or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS
IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

</pre>
Copyright (c) %YEARS% Oracle and/or its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

- Neither the name of Oracle nor the names of its
  contributors may be used to endorse or promote products derived
  from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
## Dynalink v.5

### Dynalink License
<pre>

Copyright (c) 2009-2013, Attila Szegedi

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
* Redistributions of source code must retain the above copyright
 notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
* Neither the name of the copyright holder nor the names of
 contributors may be used to endorse or promote products derived from
 this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN

NO EVENT SHALL COPYRIGHT HOLDER
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

</pre>
## Mesa 3-D Graphics Library v21.0.3

### Mesa License

```
Copyright (C) 1999-2007  Brian Paul   All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN
 ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

Attention, Contributors

When contributing to the Mesa project you must agree to the licensing terms
of the component to which you're contributing.
The following section lists the primary components of the Mesa distribution
and their respective licenses.
Mesa Component Licenses



Component        Location             License
-----------------------------------------------------------------
```

Main Mesa code  src/mesa/  MIT
Device drivers  src/mesa/drivers/*  MIT, generally

Gallium code  src/gallium/  MIT

Ext headers  GL/glext.h  Khronos
GL/glxext.h  Khronos
GL/wglext.h  Khronos
KHR/khrplatform.h  Khronos

**********

---
include/GL/gl.h :

Mesa 3-D
graphics library

Copyright (C) 1999-2006  Brian Paul  All Rights Reserved.
Copyright (C) 2009  VMware, Inc.  All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

**********

---
include/GL/glext.h
include/GL/glxext.h
include/GL/wglxext.h :

Copyright (c) 2013 - 2018 The Khronos Group Inc.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and/or associated documentation files (the
"Materials"), to deal in the Materials without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Materials, and to
permit persons to whom the Materials are furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Materials.

THE MATERIALS ARE PROVIDED "AS IS", WITHOUT
WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
MATERIALS OR THE USE OR OTHER DEALINGS IN THE MATERIALS.

**********

---
include/KHR/khrplatform.h :

Copyright (c) 2008 - 2018 The Khronos Group Inc.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and/or associated documentation files (the
"Materials"), to deal in the Materials without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Materials, and to
permit persons to whom the Materials are furnished to do
so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Materials.

THE MATERIALS ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
MATERIALS OR THE USE OR OTHER DEALINGS IN THE MATERIALS.

**********

```
## ASM Bytecode Manipulation Framework v6.0

### ASM License
<pre>

Copyright (c) 2000-2011 France Tlcom
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY
 AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

</pre>
```

# 1.68 disruptor 2.11.2.3

## 1.68.1 Available under license :

Apache Log4j Core
Copyright 1999-2012 Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

ResolverUtil.java
Copyright 2005-2006 Tim Fennell

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work

(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial
revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work

or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 1999-2005 The Apache Software Foundation

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries.To view a list of Cisco trademarks, go to this URL: www.cisco.com/go/trademarks. Third-party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1110R)

©2024 Cisco Systems, Inc. All rights reserved.