

public final class

Integer

extends [Number](#)

implements

[Comparable<T>](#)

Summary: [Constants](#) | [Fields](#) | [Ctors](#) | [Methods](#) |

[Inherited Methods](#) | [\[Expand All\]](#)

Added in [API level 1](#)

[java.lang.Object](#)

↳ [java.lang.Number](#)

↳ [java.lang.Integer](#)

Class Overview

The wrapper for the primitive type `int`.

Implementation note: The "bit twiddling" methods in this class use techniques described in [Henry S. Warren, Jr.'s Hacker's Delight](#), (Addison Wesley, 2002) (<http://www.hackersdelight.org/>) and [Sean Anderson's Bit Twiddling Hacks](#). (<http://graphics.stanford.edu/~seander/bithacks.html>)

See Also

[Long](#)

Summary

Constants

`int MAX_VALUE` Constant for the maximum `int` value, $2^{31}-1$.

`int MIN_VALUE` Constant for the minimum `int` value, -2^{31} .

`int SIZE` Constant for the number of bits needed to represent an `int` in two's complement form.

Fields

The `Class` object that

`public static final Class<Integer> TYPE` represents the primitive type `int`.

Public Constructors

`Integer(int value)`

Constructs a new `Integer` with the specified primitive integer value.

`Integer(String string)`

Constructs a new `Integer` from the specified string.

Public Methods

bitCount (int i)

Android APIs

API level 19 **signed integer**;

[android.view](#) this is also referred to as population count.

[android.view.accessibility](#)

[android.view.animation](#)

[android.view.inputmethod](#) Returns this object's value as a byte.

[android.view.textservice](#) compare (int lhs, int rhs)

[android.webkit](#) Compares two int values.

[android.widget](#) compareTo (Integer object)

[dalvik.bytecode](#) Compares this object to the specified integer object

[dalvik.system](#) to determine their relative order.

[java.awt.font](#) decode (String string)

[java.beans](#) Parses the specified string and returns a Integer

[java.io](#) integer to an integer

[java.lang](#)

[java.lang.annotation](#)

[java.lang.ref](#) doubleValue ()

Returns this object's value as a double

equals (Object o)

Interfaces [boolean](#) Compares this instance with the specified object and indicates if they are equal.

[Appendable](#) floatValue ()

[AutoCloseable](#) Returns this object's value as a float.

[CharSequence](#) getInteger (String string, Integer defaultValue)

[Cloneable](#) Returns the Integer value of the system property

[Comparable](#) identified by string.

[Iterable](#) getInteger (String string)

[Readable](#) Returns the Integer value of the system property

[Runnable](#) identified by string.

[Thread.UncaughtExceptionHandler](#) getInteger (String string, int defaultValue)

Classes [Integer](#) Returns the Integer value of the system property identified by string.

[Boolean](#)

[Byte](#) hashCode ()

[Character](#) Returns an integer hash code for this object.

[Character.Subset](#) highestOneBit (int i)

[Character.UnicodeBlock](#) Determines the highest (leftmost) bit of the

[Class](#) static int specified integer that is 1 and returns the bit mask

[ClassLoader](#) value for that bit.

[Compiler](#) intValue ()

[Double](#) int Gets the primitive value of this int.

[Enum](#) longValue ()

[Float](#) long Returns this object's value as a long.

[InheritableThreadLocal](#)

[Integer](#)

[Long](#)

lowestOneBit (int i)

Android APIs

API level 19

of the

[android.view](#) specified integer that is 1 and returns the bit mask
[android.view.accessibility](#) of the specified integer.

[android.view.animation](#) number of leading zeros (int i)

[android.view.inputmethod](#) Determines the number of leading zeros in the

[android.view.textservice](#) specified integer prior to the highest one bit.

[android.webkit](#) number of trailing zeros (int i)

[android.widget](#) Determines the number of trailing zeros in the

[dalvik.bytecode](#) specified integer after the lowest one bit.

[dalvik.system](#) parseInt (String string)

[java.awt.font](#) Parses the specified string as a signed decimal

[java.beans](#) integer value.

[java.io](#)

[java.lang](#) parseInt (String string, int radix)

[java.lang.annotation](#) Parses the specified string as a signed integer value

[java.lang.ref](#)

reverse (int i)

Interfaces [static int](#) Reverses the order of the bits of the specified integer.

[Appendable](#) reverseBytes (int i)

[AutoCloseable](#) [static int](#) Reverses the order of the bytes of the specified integer.

[CharSequence](#)

[Cloneable](#) rotateLeft (int i, int distance)

[Comparable](#) [static int](#) Rotates the bits of the specified integer to the left

[Iterable](#) by the specified number of bits.

[Readable](#) rotateRight (int i, int distance)

[Runnable](#) [static int](#) Rotates the bits of the specified integer to the right

[Thread](#) by the specified number of bits.

Classes [short](#) shortValue ()

[Boolean](#) signum (int i)

[Byte](#) [static int](#) Returns the value of the signum function for the

[Character](#) specified integer.

[Character.Subset](#) toBinaryString (int i)

[Character.UnicodeBlock](#) [static String](#) Converts the specified integer into its binary string representation.

[ClassLoader](#) toHexString (int i)

[Compiler](#) [static String](#) Converts the specified integer into its hexadecimal

[Double](#) string representation.

[Enum](#) toOctalString (int i)

[Float](#) [static String](#) Converts the specified integer into its octal string

[InheritableThreadLocal](#) representation.

[Integer](#)

[Long](#)

toString()

Android APIs

API level 19 human-

[android.view](#) Readable description of this object.[android.view.accessibility](#)[android.view.animation](#)[android.view.inputmethod](#) static String Converts the specified integer into its decimal string representation.[android.view.textservice](#)[android.webkit](#) toString(int i, int radix)[android.widget](#) static String Converts the specified signed integer i into a string representation based on the specified radix.[dalvik.bytecode](#)[dalvik.system](#) valueOf(String string, int radix)[java.awt.font](#) Parses the specified string as a signed integer value using the specified radix.[java.beans](#)[java.io](#) valueOf(int i)[java.lang](#)[java.lang.annotation](#) static Integer returns a Integer instance for the specified integer value.[java.lang.ref](#)[java.lang](#) valueOf(String string)

static Integer Parses the specified string as a signed decimal integer value.

Interfaces

Inherited Methods [Expand]

[Appendable](#)

From class java.lang.Number

[AutoCloseable](#)

From class java.lang.Object

[CharSequence](#)

From interface java.lang.Comparable

[Cloneable](#)[Comparable](#)[Iterable](#)[Readable](#)

Constants

[Runnable](#)[Thread.UncaughtExceptionHandler](#)public static final int **MAX_VALUE**Added in [API level 1](#)Constant for the maximum int value, $2^{31}-1$.

Classes

[Boolean](#) Constant Value: 2147483647 (0x7fffffff)[Byte](#)[Character](#)public static final int **MIN_VALUE**Added in [API level 1](#)[Character.Subset](#)[Character.UnicodeBlock](#) Constant Value: -2147483648 (0x80000000)[Class](#)[ClassLoader](#) Constant Value: -2147483648 (0x80000000)[Compiler](#)[Double](#)public static final int **SIZE**Added in [API level 1](#)[Enum](#)[Float](#) Constant for the number of bits needed to represent an int in two's[InheritableThreadLocal](#)[Integer](#)[Long](#) Constant Value: 32 (0x00000020)

Android APIs

API level: 19

Added in API level 1

android.view.inputmethod

android.view.textservice

android.webkit

android.widget

Public Const

dalvik.system

java.awt.Font

```
public Integer (int value)
```

Added in API level 1

Java Details

java.io

```
10 def int2float(i): return float(i)
```

java.lang

java.lang.annotation

```
javParameters
```

<i>value</i>	the primitive integer value to store in the new instance
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Appendix (String string)

Added in API level 1

AutoCloseable

Constructs a new Integer from the specified string

Char Sequence

Cloneable

Parameters Comparable

Iteration

Integer the string representation of an integer value.

Readable

Throws Runnable

Threats to Internal Validity

The above condition is not sufficient for α to be an integer value.

```
parseInt(String)
```

Boolean

Byte

Character

Public Methods

Character.UnicodeBlock

```
public static int bitCount (int i)
```

Added in API level 1

ClassLoader

Compiler Counts the number of 1 bits in the specified integer; this is also referred to as population count.

Double Enum

Para

Float

Integer

Long

the number of 1 bits in `i`.

Android APIs

API level 19

public byte byteValue ()

Added in [API level 1](#)

[android.view.accessibility](#)

[android.view.accessibility](#) Returns this object's value as a byte. Might involve rounding and/or

[android.view.accessibility](#) truncating the value so it fits into a byte.

[android.view.textservice](#)

[android.webkit](#)

[android.widget](#) Returns the primitive byte value of this object.

[dalvik.bytecode](#)

[dalvik.system](#) **public static int compare (int lhs, int rhs)**

Added in [API level 19](#)

[java.awt.font](#)

[java.beans](#) Compares two int values.

[java.io](#)

[java.lang](#)

[java.lang.annotation](#) Returns 0 if `lhs < rhs`, and greater than 0 if `lhs > rhs`.

[java.lang.ref](#)

public int compareTo (Integer object)

Added in [API level 1](#)

Compares this object to the specified integer object to determine their relative order.

[Appendable](#)

[AutoCloseable](#)

[CharSequence](#) Compares this integer object to compare this object to.

[Cloneable](#)

[Comparable](#)

[Iterable](#) Returns a negative value if the value of this integer is less than the value

[Readable](#) of object; 0 if the value of this integer and the value of object

[Runnable](#) are equal; a positive value if the value of this integer is greater

[Thread.UncaughtExceptionHandler](#) than the value of object.

See Also

[Comparable](#)

Classes

[Boolean](#)

public static Integer decode (String string)

Added in [API level 1](#)

[Byte](#)

[Character](#) Parses the specified string and returns a Integer instance if the

[Character.Subset](#) string can be decoded into an integer value. The string may be an

[Character.UnicodeBlock](#) optional minus sign, followed by a hexadecimal ("0x..." or "#..."),

[Class](#) octal ("0..."), or decimal ("...") representation of an integer.

[ClassLoader](#)

[Comparable](#)

[Double](#)

[Enum](#) string a string representation of an integer value

[Float](#)

[InheritableThreadLocal](#)

[Integer](#) Returns the value represented by string.

[Long](#)

NumberFormatException if string cannot be parsed as an
 Android APIs API level 19

[android.view](#)
[android.view.accessibility](#)
[android.view.animation](#) **public double doubleValue ()** Added in [API level 1](#)
[android.view.inputmethod](#)
[android.view.textservice](#)
[android.webkit](#)
[android.widget](#)
[dalvik.bytecode](#)
[dalvik.system](#)
[java.awt.Font](#) **public boolean equals (Object o)** Added in [API level 1](#)
[java.beans](#)
[java.io](#)
[java.lang](#)
[java.lang.annotation](#)
[java.lang.ref](#)

o the object to compare this integer with.

Returns

true if the specified object is equal to this Integer; false otherwise.

[Appendable](#)

[AutoCloseable](#)

[CharSequence](#)

[Cloneable](#) **public float floatValue ()** Added in [API level 1](#)

[Comparable](#)

[Iterable](#)

[Readable](#)

[Runnable](#)

[Thread.UncaughtExceptionHandler](#)

public static Integer [getInteger](#) (String string, Integer defaultValue) Added in [API level 1](#)

Classes

[Boolean](#) Returns the Integer value of the system property identified by *string*. Returns the specified default value if *string* is null or

[Byte](#) the property can not be found or if its value can not be

[Character](#) converted to an integer.

[Character.Subset](#)

[Character.UnicodeBlock](#)

[Class](#) **Parameters**

[ClassLoader](#)

[Compiler](#) *defaultValue*

[Double](#)

[Enum](#)

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[InheritableThreadLocal](#)

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[Long](#)

value.

Android APIs

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~~[android.view.accessibility](#)~~ ~~[android.view.animation](#)~~ ~~[android.view.inputmethod](#)~~ ~~[android.view.textservice](#)~~ ~~[android.webkit](#)~~ ~~[android.widget](#)~~ ~~[dalvik.bytecode](#)~~ ~~[dalvik.system](#)~~ ~~[java.awt.font](#)~~ ~~[java.beans](#)~~ ~~[java.io](#)~~ ~~[java.lang](#)~~ ~~[java.lang.annotation](#)~~ ~~[java.lang.ref](#)~~

Added in [API level 1](#)

~~[android.view.accessibility](#)~~

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~~[android.view.inputmethod](#)~~

~~[android.view.textservice](#)~~

~~[android.webkit](#)~~

~~[android.widget](#)~~

~~[dalvik.bytecode](#)~~

~~[dalvik.system](#)~~

~~[java.awt.font](#)~~

~~[java.beans](#)~~

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~~[java.lang.ref](#)~~

~~[java.lang.annotation](#)~~

~~[java.lang.ref](#)~~

Added in [API level 1](#)

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Interfaces

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~~[Cloneable](#)~~

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~~[Readable](#)~~

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~~[Thread.UncaughtExceptionHandler](#)~~

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~~[Thread.UncaughtExceptionHandler](#)~~

~~[Thread.UncaughtExceptionHandler](#)~~

Classes

~~[public int hashCode \(\)](#)~~

Added in [API level 1](#)

~~[Boolean](#)~~

~~[Byte](#)~~

~~[Character](#)~~

~~[Character](#)~~

~~[Character](#)~~

~~[Character](#)~~

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~~[Character](#)~~

~~[Returns an integer hash code for this object. By contract, any two](#)~~

~~[objects for which equals \(Object\) \(/reference/java/lang](#)~~

~~[CharacterSubset \(java.lang.Object\)\) returns true must return the](#)~~

~~[same hash code value. This means that subclasses of Object](#)~~

~~[usually override both methods or neither method.](#)~~

~~[ClassLoader](#)~~

~~[Compiler](#)~~

~~[Double](#)~~

~~[Enum](#)~~

~~[Float](#)~~

~~[InheritableThreadLocal](#)~~

~~[Integer](#)~~

~~[Long](#)~~

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~~[Long](#)~~

~~[Long](#)~~

~~[See Writing a correct hashCode method \(/reference/java/lang](#)~~

~~[Object.html#Writing hashCode\) if you intend implementing your own](#)~~

~~[Integer](#)~~

~~[Long](#)~~

Returns

Android APIs

API level 19

[android.view](#)[android.view.accessibility](#)
`public static int highestOneBit (int i)`Added in [API level 1](#)[android.view.animation](#)[android.view.inputmethod](#) Determines the highest (leftmost) bit of the specified integer that is[android.view.textservice](#) and returns the bit mask value for that bit. This is also referred to[android.webkit](#) as the Least Significant 1 Bit. Returns zero if the specified integer is[android.widget](#)[dalvik.bytecode](#)[dalvik.system](#)[java.awt.font](#) the integer to examine.[java.beans](#)[java.io](#)[java.lang](#)[java.lang.annotation](#)[java.lang.ref](#)Added in [API level 1](#)

Gets the primitive value of this int.

Interfaces[Appendable](#) Appends the primitive value.[AutoCloseable](#)[CharSequence](#)
`public long longValue ()`Added in [API level 1](#)[Cloneable](#)[Comparable](#) Compares this object's value as a long. Might involve rounding and/or[Iterable](#) iterating the value, so it fits into a long.[Readable](#)[Runnable](#)[Thread.UncaughtExceptionHandler](#) Thread.UncaughtExceptionHandler`public static int lowestOneBit (int i)`Added in [API level 1](#)**Classes**[Boolean](#) Determines the lowest (rightmost) bit of the specified integer that is[Byte](#) and returns the bit mask value for that bit. This is also referred to[Character](#) as the Least Significant 1 Bit. Returns zero if the specified integer is[Character](#) zero.[Character.Subset](#)[Character.UnicodeBlock](#)[Class](#)[ClassLoader](#) the integer to examine.[Compiler](#)[Double](#)[Enum](#) the bit mask indicating the lowest 1 bit in i.[Float](#)`public static int numberOfLeadingZeros (int i)`Added in [API level 1](#)[InetAddress](#) InetAddress[Integer](#) Determines the number of leading zeros in the specified integer[Long](#)

prior to the highest one bit (</reference/java/lang>

Android APIs

API level 19

[android.view](#)

[android.view.accessibility](#)

[android.view.animation](#)

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[android.view.textservice](#)

[android.webkit](#)

[android.widget](#)

[dalvik.bytecode](#)

[dalvik.system](#)

[java.awt](#)

[java.io](#)

[java.io.DataReader.html#lowestOneBit\(int\)\)](#).

[java.lang](#)

[java.lang.annotation](#)

[java.lang.ref](#)

Returns

the number of trailing zeros in i.

Interfaces

[Appendable](#)

[AutoCloseable](#)

[CharSequence](#)

[Cloneable](#)

[Comparable](#)

[Iterable](#)

[Readable](#)

[Runnable](#)

[Thread.UncaughtExceptionHandler](#)

[Throwable](#)

the primitive integer value represented by string.

Throws

[NumberFormatException](#)

[Boolean](#)

[Byte](#)

[Character](#)

[CharacterSubset](#)

[Character.UnicodeBlock](#)

[Class](#)

[ClassLoader](#)

[Compiler](#)

[Double](#)

[Enum](#)

[Float](#)

[InheritableThreadLocal](#)

[Integer](#)

[Long](#)

Returns

the primitive integer value represented by string using radix.

Android APIs

API level 19

[android.view](#)
[android.view.accessibility](#)
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[dalvik.bytecode](#)
[dalvik.system](#)
[java.awt.font](#)
[java.beans](#)
[java.io](#)
[java.lang](#)
[java.lang.annotation](#)
[java.lang.ref](#)

public static int reverse (int i) Added in [API level 1](#)

Reverses the order of the bits of the specified integer.

Parameters
 i the integer value for which to reverse the bit order.

Returns

the reversed value.

Interfaces **int reverseBytes (int i)** Added in [API level 1](#)

Reverses the order of the bytes of the specified integer.

Parameters

i the integer value for which to reverse the byte order.

Returns

the reversed value.

Comparable

Iterable

Readable

Runnable

Thread.UncaughtExceptionHandler
public static int rotateLeft (int i, int distance) Added in [API level 1](#)

Rotates the bits of the specified integer to the left by the specified

Classes

Boolean

Byte

Character the integer value to rotate left.

CharacterSubSet the number of bits to rotate.

Character.UnicodeBlock

Returns

the rotated value.

ClassLoader

Compiler

public static int rotateRight (int i, int distance) Added in [API level 1](#)

Enum

Rotates the bits of the specified integer to the right by the specified

number of bits.

InheritableThreadLocal

Integer

Long

i the integer value to rotate right.

Android APIs

API level 19

[android.view](#)

[android.view.accessibility](#)

[android.view.animation](#)

[android.view.inputmethod](#)

[android.view.textservice](#)

[android.webkit](#)

Added in [API level 1](#)

[android.widget](#) object's value as a short. Might involve rounding and/or data type conversion, so it fits into a short.

[dalvik.system](#)

[java.awt.font](#)

[java.lang](#) returns the short value of this object.

[java.io](#)

[java.lang](#)

[java.lang.annotation](#)

Added in [API level 1](#)

[java.lang.ref](#) returns the value of the `signum` function for the specified integer.

Parameters

i the integer value to check.

Interfaces

[Appendable](#)

[AutoCloseable](#) returns true, 1 if *i* is positive, 0 if *i* is zero.

[CharSequence](#)

[Cloneable](#)

[Comparable](#) **String to BinaryString** (int *i*)

Added in [API level 1](#)

[Iterable](#) converts the specified integer into its binary string representation.

[Readable](#) The returned string is a concatenation of '0' and '1' characters.

[Runnable](#)

[Thread.UncaughtExceptionHandler](#)

i the integer to convert.

Classes

[Boolean](#) the binary string representation of *i*.

[Byte](#)

[Character](#)

[Character](#) **String to HexString** (int *i*)

Added in [API level 1](#)

[Character.Subset](#)

[Character.UnicodeBlock](#) Converts the specified integer into its hexadecimal string representation. The returned string is a concatenation of characters

from '0' to '9' and 'a' to 'f'.

[ClassLoader](#)

[Compiler](#)

[Double](#)

[Enum](#) the integer to convert.

[Float](#)

[InheritableThreadLocal](#)

[Integer](#)

[Long](#)

public static String toOctalString (int i) Added in [API level 1](#)

Android APIs

API level 19

resentation.

The returned string is a concatenation of characters from '0' to '7'.

[android.view.accessibility](#)

[android.view.animation](#)

[android.view.inputmethod](#)

[android.view.textservice](#)

[android.webkit](#)

[android.widget](#)

the octal string representation of i.

[dalvik.bytecode](#)

[dalvik.system](#)

public String toString ()

Added in [API level 1](#)

[java.beans](#)

Returns a string containing a concise, human-readable description

[java.io](#) this method

[java.lang](#) and provide an implementation that takes into account the object's

[java.lang.annotation](#) type and data. The default implementation is equivalent to the

[java.lang.ref](#)

Interfaces

[Appendable](#)

See [Writing a useful toString method \(/reference/java/ and](#)

[/docs/html#writing-toString\)](#) if you intend implementing your own

[CharSequence](#)

[Comparable](#)

[Comparable](#)

[Iterable](#)

Readable representation of this object.

[Runnable](#)

[Thread.UncaughtExceptionHandler](#)

public static String toString (int i) Added in [API level 1](#)

Converts the specified integer into its decimal string representation.

The returned string is a concatenation of a minus sign if the number

is negative and characters from '0' to '9'.

[Boolean](#)

[Byte](#)

[Character](#)

the integer to convert.

[Character.Subset](#)

[Character.UnicodeBlock](#)

[Class](#)

the decimal string representation of i.

[ClassLoader](#)

[Compiler](#)

public static String toString (int i, int radix) Added in [API level 1](#)

Converts the specified signed integer into a string representation

based on the specified radix. The returned string is a concatenation

of a minus sign if the number is negative and characters from '0' to

9 and a to z, depending on the radix. If radix is not in the interval

[Long](#)

recommended to use this method instead of the constructor, since it

Android APIs

API level 19

etter

[android.view](#)

[android.view.accessibility](#)

[android.view.animation](#)

[android.view.inputmethod](#) the integer value to store in the instance.

[android.view.textservice](#)

[android.webkit](#)

[android.widget](#) a Integer instance containing i.

[dalvik.bytecode](#)

[public static Integer valueOf \(String string\)](#)

Added in [API level 1](#)

[java.awt.font](#)

[java.beans](#) Parses the specified string as a signed decimal integer value.

[java.io](#)

[java.lang](#)

[java.lang.annotation](#) the string representation of an integer value.

[java.lang.ref](#)

an Integer instance containing the integer value represented by string.

Interfaces

Throws

[Appendable](#)

[AutoCloseable](#) [NumberFormatException](#)

if string cannot be passed as an integer value.

[CharSequence](#)

[Cloneable](#)

[Comparable](#)

[Iterable](#) [parseInt \(String\)](#)

[Readable](#)

[Runnable](#)

[Thread.UncaughtExceptionHandler](#)

Classes

[Boolean](#)

[Byte](#)

[Character](#)

[Character.Subset](#)

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