JAVA.LANG.LONG CLASS

Introduction

The **java.lang.Long** class wraps a value of the primitive type long in an object. An object of type Long contains a single field whose type is long.

Class declaration

Following is the declaration for **java.lang.Long** class:

```
public final class Long
  extends Number
    implements Comparable<Long>
```

Field

Following are the fields for **java.lang.Long** class:

- **static long MAX_VALUE** -- This is a constant holding the maximum value a long can have, 2^{63}-1.
- **static long MIN_VALUE** -- This is a constant holding the minimum value a long can have, -2^{63}.
- **static int SIZE** -- This is the number of bits used to represent a long value in two's complement binary form.
- **static Class<Long> TYPE** -- This is the class instance representing the primitive type long.

Class constructors

S.N.	Constructor & Description
1	**Long*longvalue*** This constructs a newly allocated Long object that represents the specified long argument.
2	**Long*Strings*** This constructs a newly allocated Long object that represents the long value indicated by the String parameter.

Class methods

S.N.	Method & Description
1	static int bitCount*longi* This method returns the number of one-bits in the two's complement binary representation of the specified long value.

2

byte byteValue

This method returns the value of this Long as a byte.

3

int compareTo*LonganotherLong*

This method compares two Long objects numerically.

4

static Long decode*Stringnm*

This method decodes a String into a Long.

5

double doubleValue

This method returns the value of this Long as a double.

6

boolean equals*Objectobj*

This method compares this object to the specified object.

7

float floatValue

This method returns the value of this Long as a float.

8

static Long getLong*Stringnm*

This method determines the long value of the system property with the specified name.

9

static Long getLong*Stringnm, longval*

This method determines the long value of the system property with the specified name.

10

static Long getLong*Stringnm, Longval*

This method returns the long value of the system property with the specified name.

11

int hashCode

This method returns a hash code for this Long.

12

static long highestOneBit*longi*

This method returns a long value with at most a single one-bit, in the position of the highest-order " *leftmost* " one-bit in the specified long value.

13

int intValue

This method returns the value of this Long as an int.

14

long longValue

This method returns the value of this Long as a long value.

15

static long lowestOneBit*longi*

This method returns a long value with at most a single one-bit, in the position of the lowest-order "*rightmost*" one-bit in the specified long value.

16

static int numberOfLeadingZeros*longi*

This method returns the number of zero bits preceding the highest-order "*leftmost*" one-bit in the two's complement binary representation of the specified long value.

17

static int numberOfTrailingZeros*longi*

This method returns the number of zero bits following the lowest-order "*rightmost*" one-bit in the two's complement binary representation of the specified long value.

18

static long parseLong*Strings*

This method parses the string argument as a signed decimal long.

19

static long parseLong*Strings, intradix*

This method parses the string argument as a signed long in the radix specified by the second argument.

20

static long reverse*longi*

This method returns the value obtained by reversing the order of the bits in the two's complement binary representation of the specified long value.

21

static long reverseBytes*longi*

This method returns the value obtained by reversing the order of the bytes in the two's complement representation of the specified long value.

22

static long rotateLeft*longi, intdistance*

This method returns the value obtained by rotating the two's complement binary representation of the specified long value left by the specified number of bits.

23

static long rotateRight*longi, intdistance*

This method returns the value obtained by rotating the two's complement binary representation of the specified long value right by the specified number of bits.

24

short shortValue

This method returns the value of this Long as a short.

25

static int signum*longi*

This method returns the signum function of the specified long value.

26

static String toBinaryString*longi*

This method returns a string representation of the long argument as an unsigned integer in base 2.

27

static String toHexString*longi*

This method returns a string representation of the long argument as an unsigned integer in base 16.

28

static String toOctalString*longi*

This method returns a string representation of the long argument as an unsigned integer in base 8.

29

String toString

This method returns a String object representing this Long's value.

30

static String toString*longi*

This method returns a String object representing the specified long.

31

static String toString*longi, intradix*

This method returns a string representation of the first argument in the radix specified by the second argument.

32

static Long valueOf*longl*

This method returns a Long instance representing the specified long value.

33

static Long valueOf*Strings*

This method returns a Long object holding the value of the specified String.

34

static Long valueOf*Strings, intradix*

This method returns a Long object holding the value extracted from the specified String when parsed with the radix given by the second argument.

Methods inherited

This class inherits methods from the following classes:

- java.lang.Object