

JAVA.LANG.INTEGER.BITCOUNT METHOD

http://www.tutorialspoint.com/java/lang/integer_bitcount.htm

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Description

The **java.lang.Integer.bitCount** method returns the number of one-bits in the two's complement binary representation of the specified int value **i**. This is sometimes referred to as the *population count*.

Declaration

Following is the declaration for **java.lang.Integer.bitCount** method

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

Parameters

- **i** -- This is the int value.

Return Value

This method returns the number of one-bits in the two's complement binary representation of the specified int value.

Exception

- **NA**

Example

The following example shows the usage of java.lang.Integer.bitCount method.

```
package com.tutorialspoint;

import java.lang.*;

public class IntegerDemo {

    public static void main(String[] args) {

        int i = 255;
        System.out.println("Number = " + i);

        /* returns the string representation of the unsigned integer value
        represented by the argument in binary (base 2) */
        System.out.println("Binary = " + Integer.toBinaryString(i));

        // returns the number of one-bits
        System.out.println("Number of one bits = " + Integer.bitCount(i));
    }
}
```

Let us compile and run the above program, this will produce the following result:

```
Number = 170
Binary = 10101010
Number of one bits = 4
```

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