

JAVA.MATH.BIGINTEGER.SETBIT METHOD

http://www.tutorialspoint.com/java/math/biginteger_setbit.htm

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Description

The **java.math.BigInteger.setBit(int n)** returns a BigInteger whose value is equivalent to this BigInteger with the designated bit set. It computes $this | (1 \ll n)$.

Declaration

Following is the declaration for **java.math.BigInteger.setBit** method

```
public BigInteger setBit(int n)
```

Parameters

- **n** - index of bit to set

Return Value

This method returns a BigInteger object whose value is $this | 1 \ll n$.

Exception

- **ArithmeticException** - if n is negative

Example

The following example shows the usage of **math.BigInteger.setBit** method

```
package com.tutorialspoint;

import java.math.*;

public class BigIntegerDemo {

    public static void main(String[] args) {

        // create 2 BigInteger objects
        BigInteger bi1, bi2;

        bi1 = new BigInteger("7");

        // perform setbit operation on bi1 using index 3
        bi2 = bi1.setBit(3);

        String str = "Setbit operation on " + bi1 + " at index 3 gives " + bi2;

        // print bi2 value
        System.out.println( str );
    }
}
```

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

```
Setbit operation on 7 at index 3 gives 15
```

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