

JAVA.MATH.BIGINTEGER.MOD METHOD

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

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Description

The **java.math.BigInteger.mod***BigInteger m* returns a BigInteger whose value is *this mod m*. This method differs from remainder in that it always returns a non-negative BigInteger.

Declaration

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

```
public BigInteger mod(BigInteger m)
```

Parameters

- **m** - the modulus

Return Value

This method returns a BigInteger object whose value is this mod m.

Exception

- **ArithmeticException** - if $m \leq 0$

Example

The following example shows the usage of math.BigInteger.mod method

```
package com.tutorialspoint;

import java.math.*;

public class BigIntegerDemo {

    public static void main(String[] args) {

        // create 3 BigInteger objects
        BigInteger bi1, bi2, bi3;

        bi1 = new BigInteger("-100");
        bi2 = new BigInteger("3");

        // perform mod operation on bi1 using bi2
        bi3 = bi1.mod(bi2);

        String str = bi1 + " mod " + bi2 + " is " + bi3;

        // print bi3 value
        System.out.println( str );
    }
}
```

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

```
-100 mod 3 is 2
```

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