https://course.acciojob.com/idle?question=ec01c322-9521-417b-92e6-a45cf8bcac15

- EASY
- Max Score: 30 Points

Rightmost Different bit

Given two numbers M and N. The task is to find the position of the rightmost different bit in the binary representation of numbers.

Input Format

The first line contains integer M The second line contains integer N

Output Format

Print an integer the position of the rightmost different bit in the binary representation of numbers.

Example 1

Input

```
11
9
```

Output

```
2
```

Explanation

The binary representation of the given numbers is: 1011 and 1001, 2nd bit from the right is different.

Example 2

Input

```
52
4
```

Output

```
5
```

Explanation

The binary representation of the given numbers are 110100 and 00100, The 5th-bit from the right is different.

Constraints

0 <= M <= 10^9

0 <= N <= 10^9

Topic Tags

- **Bit Manipulation**

My code

```
// n java
import java.util.*;
import java.lang.*;
import java.io.*;

public class Main
```

```
{
        public static void main (String[] args) throws
java.lang.Exception
        {
                //your code here
       Scanner s=new Scanner(System.in);
      int n=s.nextInt();
         int m=s.nextInt();
      int f=0;
      int c=0;
      while(m>0||n>0)
       {
         int r1=m%2;
         m/=2;
           int r2=n%2;
         n/=2;c++;
         if(r1!=r2){ f=1; break;}
        //System.out.println(r1+" "+r2+" ");
       }
      //System.out.print(m+" "+n+" ");
      if(f==0) System.out.print("-1");
      else System.out.print(c);
```

```
        }
    }
```