

<https://course.acciojob.com/idle?question=90266d47-b043-4a66-b6c8-57d12147a33d>

● EASY

● Max Score: 30 Points

●

Check whether K-th bit is set or not

Given a number N and a bit number K , check if K th bit of N is set or not. A bit is called set if it is 1. Position of set bit 1 should be indexed starting with 0 from LSB side in binary representation of the number.

Input Format

First line of input contains 2 space separated integers N and K .

Output Format

Return whether the k th bit is set or not.

Example 1

Input:

4 0

Output

NO

Explanation

Binary representation of 4 is 100, in which 0th bit from LSB is not set. So, return false.

Example 2

Input

4 2

Output:

YES

Explanation

Binary representation of 4 is 100, in which 2nd bit from LSB is set. So, return true.

Constraints

$1 \leq N \leq 10^9$

$0 \leq K \leq \text{floor}(\log_2(N) + 1)$

Topic Tags

- Bit Manipulation

My code

// in 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 k=s.nextInt();
    int r=5;
while(k>-1)
{
    r=n%2;
    n=n/2;
    k--;
}
if(r==1)
System.out.print("YES"); else System.out.print("NO");

    }
}
```