

<https://course.acciojob.com/idle?question=fba3f568-17f0-4a06-a1d4-a74f319e5723>

- EASY

- Max Score: 30 Points

Number Of 1 Bits

Given a positive integer n , print count of set bits in it.

Input Format

Single line contains an integers n .

Output Format

Print the count of set bits in n .

Example 1

Input

6

Output

2

Explanation

Binary representation is 110. So the count of the set bit is 2.

Example 2

Input

8

Output

1

Explanation

Binary representation is 1000. So the count of the set bit is 1.

Constraints

$1 \leq N \leq 10^9$

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 c=0;  
while(n>0)  
{  
    if(n%2==1) c++;  
    n=n/2;  
}  
System.out.print(c);
```

```
    }  
}
```