

<https://course.acciojob.com/idle?question=5efc5258-7571-4c88-a996-1fc57aefe1a8>

● EASY

● Max Score: 30 Points

Toggle all odd bits of a number

Given a number n , the task is to toggle odd bit of the number.

Input Format

Input consists of an integer N .

Output Format

Print the number after toggling the bits.

Example 1

Input

10

Output:

0

Explanation

Binary Representation: 1010
After Toggle: 0000

Example 2

Input

20

Output:

30

Explanation

Binary Representation: 10100
After Toggle: 11110

Constraints

$1 \leq n \leq 10000$

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 pos=1;
int ans=0;
while(n>0)
{
    int r=n%2;
    if(r==1)
        ans=ans+pos;
    pos*=2;
    n/=2;
    if(n>0)
    {
        r=n%2;
        if(r==0)
            ans=ans+pos;
        pos*=2;
        n/=2;
    }
}
System.out.print(ans);
}
}
```