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Consecutive 1's in Binary Numbers



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Problem

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Tutorial

Given a base-10 integer, n , convert it to binary (base-2). Then find and print the base-10 integer denoting the maximum number of consecutive 1's in n 's binary representation.

Input Format

A single integer, n .

Constraints

- $1 \leq n \leq 10^6$

Output Format

Print a single base-10 integer denoting the maximum number of consecutive 1's in the binary representation of n .

Sample Input 1

5

Sample Output 1

1

Sample Input 2

13

Sample Output 2

2

Explanation

Sample Case 1:

The binary representation of 5 is 101, so the maximum number of consecutive 1's is 1.

Sample Case 2:

The binary representation of 13 is 1101, so the maximum number of consecutive 1's is 2.



Submissions: 6464

Max Score: 30


Difficulty: Easy

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★★★★★ Thanks!

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C#



```
1 using System;
2 using System.Collections.Generic;
3 using System.IO;
4 using System.Linq;
5 class Solution {
6
7     static void Main(String[] args) {
8         int n = Convert.ToInt32(Console.ReadLine());
9
10        string bin = Convert.ToString(n, 2);
11        //Console.WriteLine(bin);
12
13        int max_unos = 0;
14        int i = 0;
15        while (i < bin.Length)
16        {
17            int cont = 0;
18            while (i < bin.Length && bin[i] == '1')
19            {
20                cont++;
21                i++;
22            }
23            max_unos = Math.Max(cont, max_unos);
24            i++;
25        }
26
27        Console.WriteLine(max_unos);
28    }
29 }
30
```

Line: 27 Col: 41

 [Upload Code as File](#)☐ Test against custom input[Run Code](#)[Submit Code](#)

Congrats, you solved this challenge!

✓ Test Case #0

✓ Test Case #1

✓ Test Case #2

✓ Test Case #3

✓ Test Case #4

✓ Test Case #5

✓ Test Case #6

✓ Test Case #7

✓ Test Case #8

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