

Consecutive 1's in Binary Numbers ■



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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

• $1 \le n \le 10^6$

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:

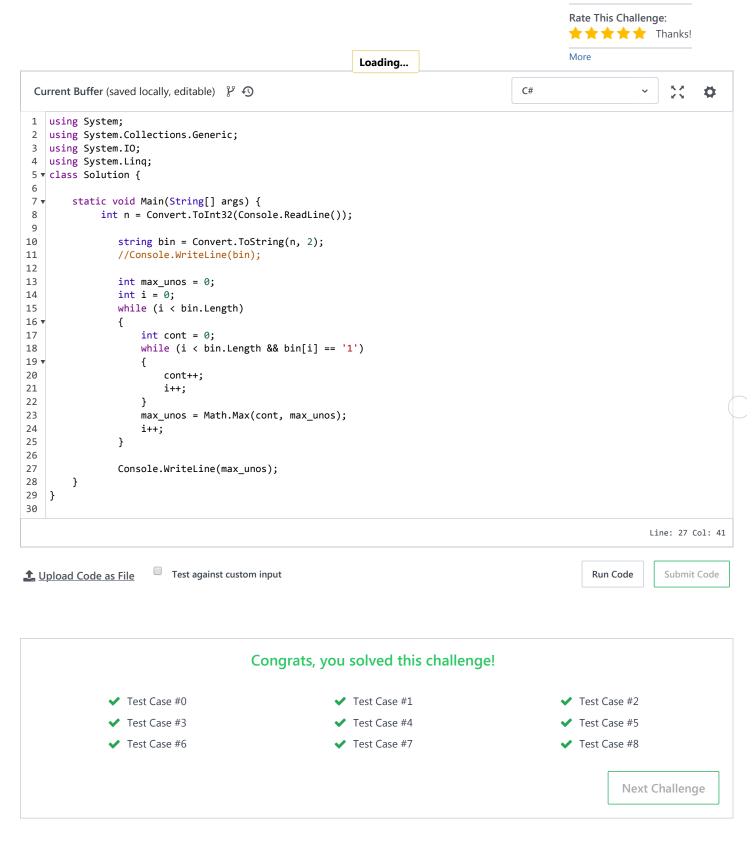
The binary representation of $\bf 5$ is $\bf 101$, so the maximum number of consecutive $\bf 1$'s is $\bf 1$.

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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