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Day 10: Binary Numbers ☆

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Problem

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Objective

Today, we're working with binary numbers. Check out the [Tutorial](#) tab for learning materials and an instructional video!

Task

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.

Easy

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