# Consecutive 1's in Binary Numbers 

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 .

