

Day 10: Binary Numbers

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30

Days of Code

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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.

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Difficulty	Easy
Max Score	30
Submitted By	226507

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Change ThemePython 3

```
1#!/bin/python3
2
3import math
4import os
5import random
6import re
7import sys
8
9
10
11if __name__ == '__main__':
12    n = int(input())
13
```

Line: 13 Col: 1

Upload Code as File

Test against custom input

Run Code

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