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Day 10: Binary Numbers

by **AvimanyuSingh**

Problem	Submissions	Leaderboard	Discussions	Editorial 🔒	Tutorial

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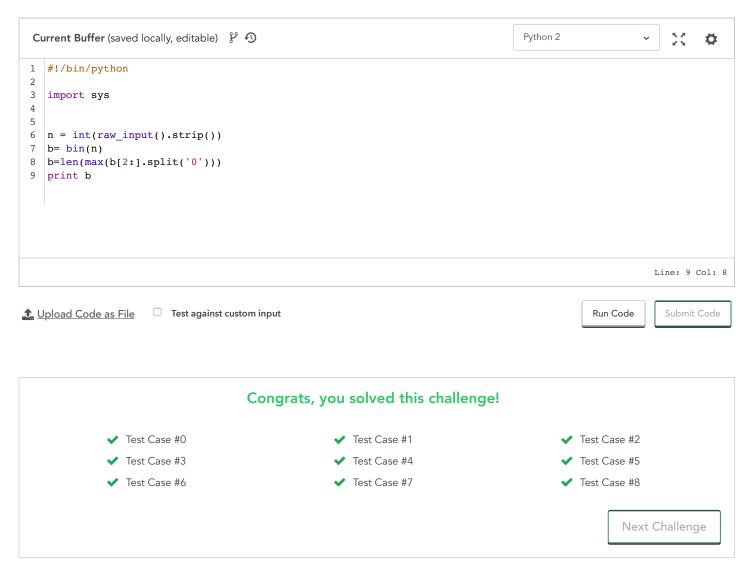The binary representation of 5 is 101, so the maximum number of consecutive 1's is 1.

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

Submissions: 10270

Max Score: 30

Difficulty: Easy

Current Buffer (saved locally, editable)   ⎇ ⟲   Python 2 ▾   ⤢ ⚙

```python
1  #!/bin/python
2
3  import sys
4
5
6  n = int(raw_input().strip())
7  b= bin(n)
8  b=len(max(b[2:].split('0')))
9  print b
```

Line: 9 Col: 8

⬆ 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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