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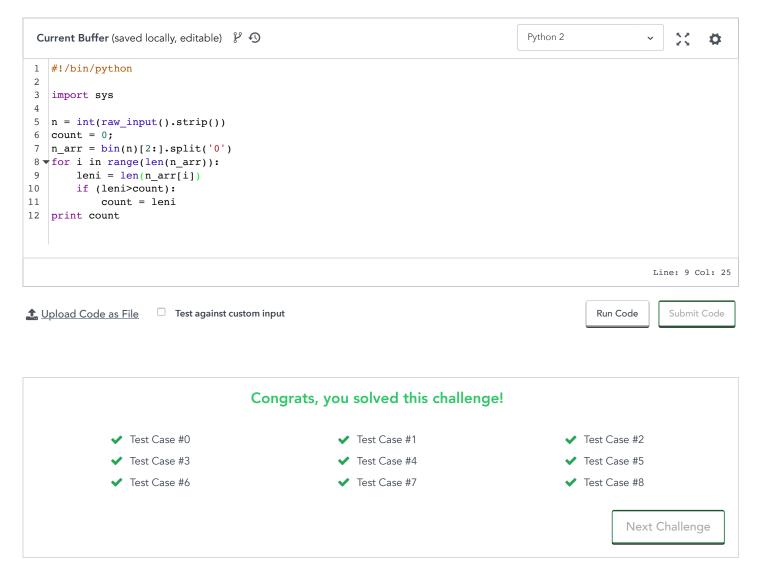The binary representation of 5 is 101, so the maximum number of consecutive 1's is 1.

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

Submissions: 10274

Max Score: 30

Difficulty: Easy

More

Current Buffer (saved locally, editable)   ⑂ ⟲   Python 2   ⌄   ⤢ ⚙

```python
1   #!/bin/python
2
3   import sys
4
5   n = int(raw_input().strip())
6   count = 0;
7   n_arr = bin(n)[2:].split('0')
8   for i in range(len(n_arr)):
9       leni = len(n_arr[i])
10      if (leni>count):
11          count = leni
12  print count
```

Line: 9 Col: 25

⬆ 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

Next Challenge

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