

Description

Solution

Submissions

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C++

Autocomplete

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1342. Number of Steps to Reduce a Number to Zero

Easy

👍 217

💬 25

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Given a non-negative integer `num`, return the number of steps to reduce it to zero. If the current number is even, you have to divide it by 2, otherwise, you have to subtract 1 from it.

Example 1:

Input: `num = 14`**Output:** 6**Explanation:**

Step 1) 14 is even; divide by 2 and obtain 7.

Step 2) 7 is odd; subtract 1 and obtain 6.

Step 3) 6 is even; divide by 2 and obtain 3.

Step 4) 3 is odd; subtract 1 and obtain 2.

Step 5) 2 is even; divide by 2 and obtain 1.

Step 6) 1 is odd; subtract 1 and obtain 0.

Example 2:

Input: `num = 8`**Output:** 4**Explanation:**

Step 1) 8 is even; divide by 2 and obtain 4.

Step 2) 4 is even; divide by 2 and obtain 2.

```
1 class Solution {
2 public:
3     int numberOfSteps (int n) {
4         int c=0;
5         while(n>0){
6             if(n%2==0)
7                 n=n/2;
8             else
9                 n=n-1;
10            c+=1;
11        }
12        return c;
13    }
14 };
```

Testcase

Run Code Result

Debugger



Accepted

Runtime: 0 ms



Your input

14

Output

6

Diff

Expected

6

☰ Problems

✂️ Pick One

< Prev

236/236

Next >

Conso...

How to create a
testcase ▾

▶ Run Code

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