

 Description

 Solution

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1342. Number of Steps to Reduce a Number to Zero

Easy

 1504

 103

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Given an integer `num` , return *the number of steps to reduce it to zero*.

In one step, 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.
Step 3) 2 is even; divide by 2 and obtain 1.
Step 4) 1 is odd; subtract 1 and obtain 0.

Example 3:

Input: `num = 123`
Output: `12`

Constraints:

- $0 \leq \text{num} \leq 10^6$

Accepted 241,044

Submissions 281,265

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Java

▼

Autocomplete

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{ }

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```
1  class Solution {
2      public int numberOfSteps(int num) {
3
4          int counter = 0;
5
6          while(num != 0){
7              if((num & 1) == 0){
8                  num = num >> 1;
9                  counter++;
10             }else{
11                 num = num - 1;
12                 counter++;
13             }
14         }
15
16         return counter;
17     }
18 }
```

⋮

Testcase

Run Code Result

Debugger 

▼

AcceptedRuntime: 0 ms?

Your input

14

Output

6

☐ Diff

Expected

6

 Problems



 Pick One

 Prev

6/6

Next 

Console  [Use Example Testcases](#) ?

 Run Code 

Submit