



Problem List



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Description



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Solutions



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1342. Number of Steps to Reduce a Number to Zero

Easy



Topics



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Hint

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:

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