

1342. Number of Steps to Reduce a Number to Zero



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:

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

```
/**
 * @param {number} num
 * @return {number}
 */
var numberOfSteps = function(num) {
    let count = 0;

    while(num > 0){
        if(num % 2 == 0){
            num /= 2;
            count++;
        }else{
            --num;
            count++;
        }
    }
    return count;
};
```