Make me zero!



Given a positive integer n, print the number of steps to make it as zero. If the number is even, divide it by 2 If the number is odd subtract 1 from it.

Sample Input: 14 Sample Output: 6

Explanation:

- 1) 14 is even; divide by 2 and obtain 7.
- 2) 7 is odd; subtract 1 and obtain 6.
- 3) 6 is even; divide by 2 and obtain 3.
- 4) 3 is odd; subtract 1 and obtain 2.
- 5) 2 is even; divide by 2 and obtain 1.
- 6) 1 is odd; subtract 1 and obtain 0.

Input Format

14

Constraints

 $0 \le num \le 10^6$

Output Format

6

Sample Input 0

14

Sample Output 0

6