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509. Fibonacci Number

Easy 439

4 179

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The **Fibonacci numbers**, commonly denoted F(n) form a sequence, called the **Fibonacci sequence**, such that each number is the sum of the two preceding ones, starting from 0 and 1. That is,

$$F(0) = 0, F(1) = 1$$

$$F(N) = F(N - 1) + F(N - 2)$$
, for $N > 1$.

Given N, calculate F(N).

Example 1:

Input: 2

Output: 1

Explanation: F(2) = F(1) + F(0) = 1 + 0 = 1.

Example 2:

Input: 3

Output: 2

Explanation: F(3) = F(2) + F(1) = 1 + 1 = 2.

Example 3:

Input: 4

Output: 3

Explanation: F(4) = F(3) + F(2) = 2 + 1 = 3.

Note:

 $0 \le N \le 30$.

Accepted 151,168 Submissions 226,355

 \equiv Problems

➢ Pick One

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