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.