



# 70. Climbing Stairs

Solved 

Easy

 Topics

 Companies

 Hint

You are climbing a staircase. It takes  $n$  steps to reach the top.

Each time you can either climb 1 or 2 steps. In how many distinct ways can you climb to the top?

## Example 1:

Input:  $n = 2$

Output: 2

Explanation: There are two ways to climb to the top.

1. 1 step + 1 step

2. 2 steps

```
class Solution {
    func climbStairs(_ n: Int) -> Int {
        if (n < 3) {
            return n
        }

        var a = Array(repeating: 0, count: n + 1)
        a[0] = 0
        a[1] = 1
        a[2] = 2

        for i in (3...n) {
            a[i] = a[i - 1] + a[i - 2]
        }
        return a[n]
    }
}
```