

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 step + 1 step
- 2 steps

Example 2:

Input: $n = 3$ **Output:** 3**Explanation:** There are three ways to climb to the top.

- 1 step + 1 step + 1 step
- 1 step + 2 steps
- 2 steps + 1 step

Code

Python3 Auto

```
1 class Solution:
2     def climbStairs(self, n: int) -> int:
3         one, two = 1, 1
4         for i in range(n - 1):
5             temp = one
6             one = one + two
7             two = temp
8         return one
9
10
11
```

Saved

Testcase Test Result

Accepted Runtime: 32 ms

• Case 1

• Case 2

Input

$n =$
2

Output

2