## **Climbing Stairs**

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

## Example 2:

**Input:** n = 3

Output: 3

**Explanation:** There are three ways to climb to the top.

- 1. 1 step + 1 step + 1 step
- 2. 1 step + 2 steps
- 3. 2 steps + 1 step

## **Constraints:**

• 1 <= n <= 45