

70. Climbing Stairs

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

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:

- $1 \leq n \leq 45$