

62. Unique Paths

Difficulty : Medium

<https://leetcode.com/problems/unique-paths>

There is a robot on an $m \times n$ grid. The robot is initially located at the **top-left corner** (i.e., $\text{grid}[0][0]$). The robot tries to move to the **bottom-right corner** (i.e., $\text{grid}[m - 1][n - 1]$). The robot can only move either down or right at any point in time.

Given the two integers m and n , return *the number of possible unique paths that the robot can take to reach the bottom-right corner*.

The test cases are generated so that the answer will be less than or equal to $2 * 10^9$.

Example 1:



Input: $m = 3, n = 7$

Output: 28

Example 2:

Input: $m = 3, n = 2$

Output: 3

Explanation: From the top-left corner, there are a total of 3 ways to reach the bottom-right corner:

1. Right -> Down -> Down
2. Down -> Down -> Right
3. Down -> Right -> Down

Constraints:

- $1 \leq m, n \leq 100$