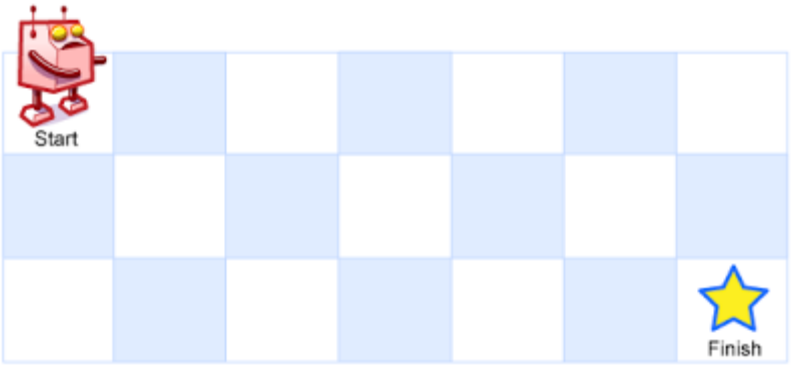
Leet Code

Day-39 Q-03 Unique Paths

A robot is located at the top-left corner of a *m* x *n* grid (marked 'Start' in the diagram below).

The robot can only move either down or right at any point in time. The robot is trying to reach the bottom-right corner of the grid (marked 'Finish' in the diagram below).

How many possible unique paths are there?



Above is a 7 x 3 grid. How many possible unique paths are there?

Example 1:

```
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 -> Right -> Down

2. Right -> Down -> Right

3. Down -> Right -> Right
```

Example 2:

```
Input: m = 7, n = 3

Output: 28
```

Constraints:

- `1 <= m, n <= 100`

- It's guaranteed that the answer will be less than or equal to `2 * 10 ^ 9`.