

62. Unique Paths

Medium
3463
212
Add to List
Share

A robot is located at the top-left corner of a $m \times n$ 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

```

1  class Solution {
2      public int uniquePaths(int m, int n) {
3          int[][] inpArray = new int[n][m];
4
5          for (int row = 0; row < n; row++) {
6              inpArray[row][0] = 1;
7          }
8          for (int col = 0; col < m; col++) {
9              inpArray[0][col] = 1;
10         }
11
12         for (int row = 1; row < n; row++) {
13             for (int col = 1; col < m; col++) {
14                 inpArray[row][col] = inpArray[row][col - 1] +
inpArray[row - 1][col];
15             }
16         }
17
18         return inpArray[n-1][m-1];
19     }
20 }

```

Your previous code was restored from your local storage.
[Reset to default](#)