

Unique Paths

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Total

Question

Solution

Accepted:

59123 Total Submissions: **177722** Difficulty: **Medium**

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

Note: m and n will be at most 100.

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Python ▼



```
1 class Solution(object):
2     def uniquePaths(self, m, n):
3         """
4         :type m: int
5         :type n: int
6         :rtype: int
7         """
8         dp = [[0 for i in range(n)] for j in range(m)]
9         # Send Feedback (mailto:admin@leetcode.com?subject=Feedback)
10        for i in range(m):
```

```
10         for j in range(n):
11             if i==0 and j==0:dp[i][j]=1
12             elif i==0:dp[i][j]=dp[i][j-1]
13             elif j==0:dp[i][j]=dp[i-1][j]
14             else:dp[i][j]=dp[i-1][j]+dp[i][j-1]
15     return dp[m-1][n-1]
```

Custom Testcase ☐

Run Code

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Submission Result: Accepted (/submissions/detail/40506149/)

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Next challenges: (M) Unique Paths II (/problems/unique-paths-ii/)

(M) Minimum Path Sum (/problems/minimum-path-sum/)

(H) Dungeon Game (/problems/dungeon-game/)

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