62. Unique Paths

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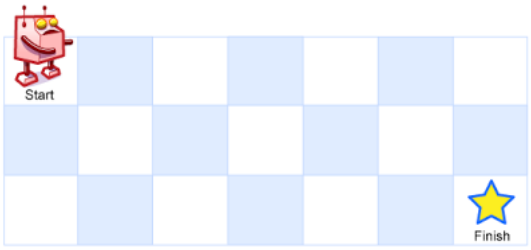
Total Accepted: **121065** Total Submissions: **307602** Difficulty: **Medium** Contributors: **Admin**

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

Note: *m* and *n* will be at most 100.

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C++

```
class Solution {
public:
    int uniquePaths(int m, int n) {
        int dp[m];
        int i,j;
        for(i=0;i<m;i++) dp[i]=1;
        for(i=1;i<n;i++)
            for(j=1;j<m;j++)
                dp[j] += dp[j-1];
        return dp[m-1];
    }
};
```

Custom Testcase

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