

Description

Editorial

Solutions (5.2K)

Submissions

63. Unique Paths II

Hint

Medium

7.9K

470



Companies

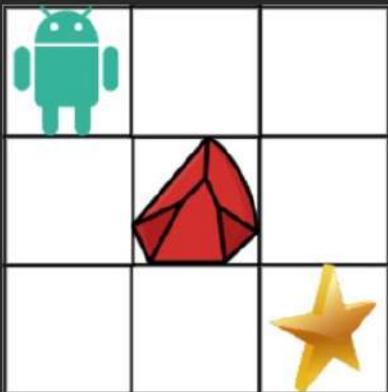
You are given an $m \times n$ integer array `grid`. There is a robot initially located at the **top-left corner** (i.e., `grid[0][0]`). The robot tries to move to the **bottom-right corner** (i.e., `grid[m - 1][n - 1]`). The robot can only move either down or right at any point in time.

An obstacle and space are marked as `1` or `0` respectively in `grid`. A path that the robot takes cannot include **any** square that is an obstacle.

Return the number of possible unique paths that the robot can take to reach the bottom-right corner.

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

Example 1:



Java

Auto

```
1 public class Solution {
2     public int uniquePathsWithObstacles(int[][] obstacleGrid) {
3         if (obstacleGrid == null || obstacleGrid.length == 0 || obstacleGrid[0].length == 0
4         || obstacleGrid[0][0] == 1) {
5             return 0;
6         }
7
8         int m = obstacleGrid.length;
9         int n = obstacleGrid[0].length;
10
11         int[] previous = new int[n];
12         int[] current = new int[n];
13         previous[0] = 1;
14
15         for (int i = 0; i < m; i++) {
16             current[0] = obstacleGrid[i][0] == 1 ? 0 : previous[0];
17             for (int j = 1; j < n; j++) {
```

Testcase

Result

Accepted Runtime: 0 ms

Case 1 Case 2

Input

```
obstacleGrid =
[[0,0,0],[0,1,0],[0,0,0]]
```

Output

2

Expected

Console



Run

Submit

[Description](#)[Editorial](#)[Solutions \(9.9K\)](#)[Submissions](#)

62. Unique Paths

Medium

14.7K

401

[Companies](#)

There is a robot on an $m \times n$ grid. The robot is initially located at the **top-left corner** (i.e., `grid[0][0]`). The robot tries to move to the **bottom-right corner** (i.e., `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: $m = 3, n = 3$ *i* Java | • Auto

```
1 class Solution {
2     public int uniquePaths(int m, int n) {
3         int N = n + m - 2;
4         int r = m - 1;
5         double res = 1;
6
7         for(int i = 1; i <= r; i++){
8             res = res * (N-r+i)/i;
9         }
10
11         return (int)res;
12     }
13 }
```

Testcase

Result

Accepted Runtime: 0 ms

• Case 1

• Case 2

Input

m =

3

n =

7

Output

28

Console



Run

Submit