

63. Unique Paths II

Difficulty : Medium

<https://leetcode.com/problems/unique-paths-ii>

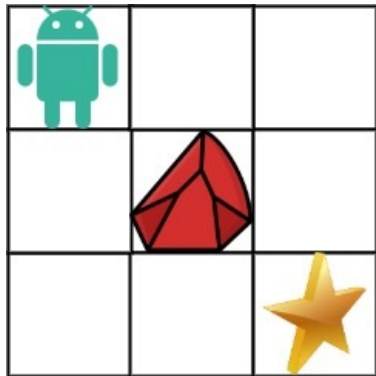
You are given an $m \times n$ integer array `grid`. There is a robot initially located at the **top-left corner** (i.e., `grid[0][0]`). The robot tries to move to the **bottom-right corner** (i.e., `grid[m - 1][n - 1]`). The robot can only move either down or right at any point in time.

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:



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

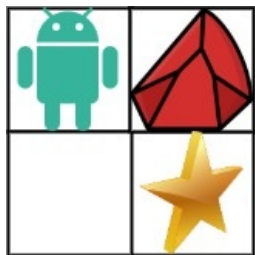
Output: 2

Explanation: There is one obstacle in the middle of the 3x3 grid above.

There are two ways to reach the bottom-right corner:

1. Right -> Right -> Down -> Down
2. Down -> Down -> Right -> Right

Example 2:



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

Output: 1

Constraints:

- $m == \text{obstacleGrid.length}$
- $n == \text{obstacleGrid}[i].\text{length}$
- $1 \leq m, n \leq 100$
- `obstacleGrid[i][j]` is 0 or 1.