## 2328. Number of Increasing Paths in a Grid Hint $\odot$

**♠** Companies

You are given an mxn integer matrix grid, where you can move from a cell to any adjacent cell in all 4 directions.

Return the number of **strictly increasing** paths in the grid such that you can start from **any** cell and end at **any** cell. Since the answer may be very large, return it **modulo**  $10^9 + 7$ .

Two paths are considered different if they do not have exactly the same sequence of visited cells.

## Example 1:

1	1
3	4

**Input:** grid = [[1,1],[3,4]]

Output: 8

Explanation: The strictly increasing paths are:

- Paths with length 1: [1], [1], [3], [4].
- Paths with length 2: [1 -> 3], [1 -> 4], [3 -> 4].
- Paths with length 3: [1 -> 3 -> 4].

The total number of paths is 4 + 3 + 1 = 8.

## Example 2:

**Input:** grid = [[1],[2]]

Output: 3

**Explanation:** The strictly increasing paths are:

- Paths with length 1: [1], [2].
- Paths with length 2: [1 -> 2].

The total number of paths is 2 + 1 = 3.

## **Constraints:**

- m == grid.length
- n == grid[i].length
- 1 <= m, n <= 1000
- 1 <= m \* n <= 10<sup>5</sup>
- 1 <= grid[i][j] <= 10<sup>5</sup>

Accepted 57.3K Submissions 95.4K Acceptance Rate 60.1%

Seen this question in a real interview before? 1/4

Yes No

Discussion (52)

Similar Questions	\
Related Topics	
Copyright © 2023 LeetCode All rights reserved	