## 2658. Maximum Number of Fish in a Grid

Solved •

Medium igthinderightarrow Topics igcup G Companies igcup G Hint

You are given a **0-indexed** 2D matrix grid of size m x n, where (r, c) represents:

- A **land** cell if grid[r][c] = 0, or
- A water cell containing grid[r][c] fish, if grid[r][c] > 0.

A fisher can start at any water cell (r, c) and can do the following operations any number of times:

- Catch all the fish at cell (r, c), or
- Move to any adjacent water cell.

Return the **maximum** number of fish the fisher can catch if he chooses his starting cell optimally, or 0 if no water cell exists.

An **adjacent** cell of the cell (r, c), is one of the cells (r, c + 1), (r, c - 1), (r + 1, c) or (r - 1, c) if it exists.

## Example 1:

0	2	1	0
4	0	0	3
1	0	0	4
0	3	2	0

**Input:** grid = [[0,2,1,0],[4,0,0,3],[1,0,0,4],[0,3,2,0]]

Output: 7

**Explanation:** The fisher can start at cell (1,3) and collect 3 fish, then move to cell (2,3) and collect 4 fish.

## Example 2:

1	0	0	0
0	0	0	0
0	0	0	0
0	0	0	1

**Input:** grid = [[1,0,0,0],[0,0,0,0],[0,0,0,0],[0,0,0,1]]

Output: 1

**Explanation:** The fisher can start at cells (0,0) or (3,3) and collect a single fish.

## **Constraints:**

- m == grid.length
- n == grid[i].length
- 1 <= m, n <= 10
- 0 <= grid[i][j] <= 10

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Yes No

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