operations/)

## 6433. Maximum Number of Moves in a Grid

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You are given a **O-indexed** m x n matrix grid consisting of **positive** integers.

You can start at any cell in the first column of the matrix, and traverse the grid in the following way:

From a cell (row, col), you can move to any of the cells: (row - 1, col + 1), (row, col + 1) and (row + 1, col + 1) such that the value of the cell you move to, should be strictly bigger than the value of the current cell.

Return the maximum number of moves that you can perform.

User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	(Medium)

## Example 1:

2	4	3	5
5	4	9	3
3	4	2	11
10	9	13	15

## Example 2:

3	2	4
2	1	9
1	1	7

Input: grid = [[3,2,4],[2,1,9],[1,1,7]]

Output: 0

Explanation: Starting from any cell in the first column we cannot perform any moves.

## Constraints:

- m == grid.length
- n == grid[i].length
- 2 <= m, n <= 1000
- $4 \le m * n \le 10^5$
- 1 <= grid[i][j] <= 10<sup>6</sup>

JavaScript

1 const initialize2DArray = (n, m) => [...Array(n)].map(() => Array(m).fill(0)):

```
10 🔻
                 if (g[i][j] > g[i][j - 1] \&\& f[i][j - 1]) {
11
                     f[i][j] = 1;
12
                 if (i - 1 \ge 0 \& g[i][j] > g[i - 1][j - 1] \& f[i - 1][j - 1]) {
13 ▼
14
                     f[i][j] = 1;
15
16
                 if (i + 1 < n \&\& g[i][j] > g[i + 1][j - 1] \&\& f[i + 1][j - 1]) {
17
                     f[i][j] = 1;
18
                 }
            }
19
20
        for (let j = m - 1; j >= 0; j--) {
21 🔻
             let canReach = false;
22
23 ▼
             for (let i = 0; i < n; i++) {
24 ▼
                 if (f[i][j]) {
25
                     canReach = true;
26
                     break;
27
                 }
28
29
             if (canReach) return j;
30
        }
31
        return 0;
    };
32
```

☐ Custom Testcase

Use Example Testcases

Submission Result: Accepted (/submissions/detail/950008401/) 3

More Details > (/submissions/detail/950008401/)

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