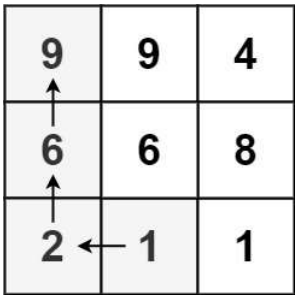
329. Longest Increasing Path in a Matrix

Hard 6232 99 Add to List Share

Given an `m x n` integers `matrix`, return *the length of the longest increasing path in* `matrix`.

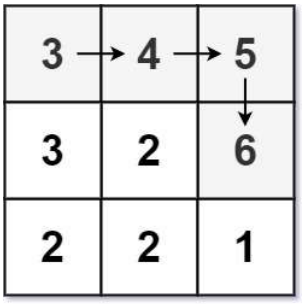
From each cell, you can either move in four directions: left, right, up, or down. You **may not** move **diagonally** or move **outside the boundary** (i.e., wrap-around is not allowed).

Example 1:




```
Input: matrix = [[9,9,4],[6,6,8],[2,1,1]]
Output: 4
Explanation: The longest increasing path is [1, 2, 6, 9].
```

Example 2:




```
Input: matrix = [[3,4,5],[3,2,6],[2,2,1]]
Output: 4
Explanation: The longest increasing path is [3, 4, 5, 6]. Moving diagonally is
not allowed.
```

Example 3:

```
Input: matrix = [[1]]
Output: 1
```

Constraints:

- `m == matrix.length`
- `n == matrix[i].length`
- `1 <= m, n <= 200`
- `0 <= matrix[i][j] <= 2^31 - 1`

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```
1  class Solution {
2      public int longestIncreasingPath(int[][] matrix) {
3
4      }
5  }
```