

LeetCode

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Description

Solution

Discuss (398)

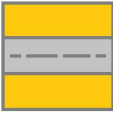
Submissions

1391. Check if There is a Valid Path in a Grid


Medium640271Add to ListShare

You are given an $m \times n$ grid. Each cell of grid represents a street. The street of grid[i][j] can be:


- 1 which means a street connecting the left cell and the right cell.
- 2 which means a street connecting the upper cell and the lower cell.
- 3 which means a street connecting the left cell and the lower cell.
- 4 which means a street connecting the right cell and the lower cell.
- 5 which means a street connecting the left cell and the upper cell.
- 6 which means a street connecting the right cell and the upper cell.




Street 1




Street 2




Street 3



Street 4



Street 5



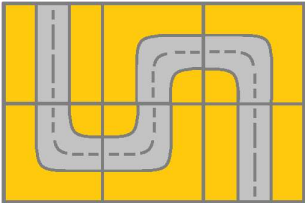
Street 6

You will initially start at the street of the upper-left cell $(0, 0)$. A valid path in the grid is a path that starts from the upper left cell $(0, 0)$ and ends at the bottom-right cell $(m - 1, n - 1)$. **The path should only follow the streets.**

Notice that you are **not allowed** to change any street.

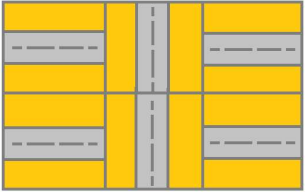
Return `true` if there is a valid path in the grid or `false` otherwise.

Example 1:



Input: grid = [[2,4,3],[6,5,2]]
Output: true
Explanation: As shown you can start at cell $(0, 0)$ and visit all the cells of the grid to reach $(m - 1, n - 1)$.

Example 2:



Input: grid = [[1,2,1],[1,2,1]]
Output: false
Explanation: As shown you the street at cell $(0, 0)$ is not connected with any street of any other cell and you will get stuck at cell $(0, 0)$

Example 3:


Input: grid = [[1,1,2]]
Output: false
Explanation: You will get stuck at cell $(0, 1)$ and you cannot reach cell $(0, 2)$.


Constraints:


- $m == \text{grid.length}$
- $n == \text{grid}[i].\text{length}$
- $1 \leq m, n \leq 300$
- $1 \leq \text{grid}[i][j] \leq 6$


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JavaAutocomplete

```
1 class Solution {
2     public boolean hasValidPath(int[][] grid) {
3
4     }
5 }
```

Console

Contribute *i*

https://leetcode.com/problems/check-if-there-is-a-valid-path-in-a-grid/

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