

Check if Grid Satisfies Conditions - LeetCode

笔记本: leetcode

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3142. Check if Grid Satisfies Conditions

You are given a 2D matrix `grid` of size `m x n`. You need to check if each cell `grid[i][j]` is:

- Equal to the cell below it, i.e. `grid[i][j] == grid[i + 1][j]` (if it exists).
- Different from the cell to its right, i.e. `grid[i][j] != grid[i][j + 1]` (if it exists).

Return `true` if **all** the cells satisfy these conditions, otherwise, return `false`.

Example 1:

Input: `grid = [[1,0,2],[1,0,2]]`

Output: `true`

Explanation:

1	0	2
1	0	2

All the cells in the grid satisfy the conditions.

Example 2:

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

Output: `false`

Explanation:

1	1	1
0	0	0

All cells in the first row are equal.

Example 3:

Input: `grid = [[1],[2],[3]]`

Output: `false`

Explanation:

1
2
3

Cells in the first column have different values.

Constraints:

- $1 \leq n, m \leq 10$
- $0 \leq \text{grid}[i][j] \leq 9$