3142. Check if Grid Satisfies Conditions

Description

You are given a 2D matrix <code>grid</code> of size <code>m x n</code> . You need to check if each cell <code>grid[i][j]</code> 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. <code>grid[i][j] != grid[i][j + 1]</code> (if it exists).

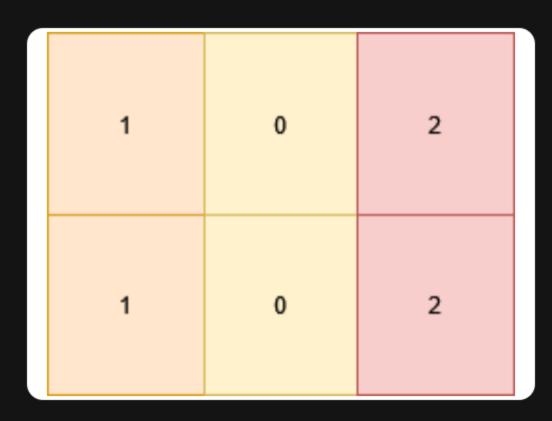
Return true if all the cells satisfy these conditions, otherwise, return false.

Example 1:

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

Output: true

Explanation:



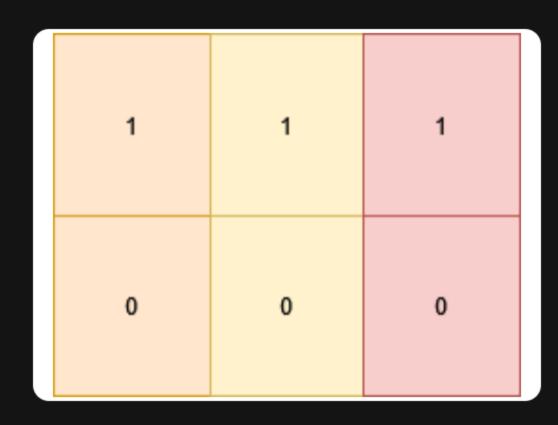
All the cells in the grid satisfy the conditions.

Example 2:

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

Output: false

Explanation:



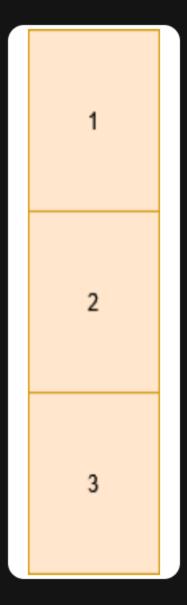
All cells in the first row are equal.

Example 3:

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

Output: false

Explanation:



Cells in the first column have different values.

Constraints:

- 1 <= n, m <= 10
- 0 <= grid[i][j] <= 9