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1905. Count Sub Islands

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You are given two $m \times n$ binary matrices `grid1` and `grid2` containing only `0` 's (representing water) and `1` 's (representing land). An **island** is a group of `1` 's connected **4-directionally** (horizontal or vertical). Any cells outside of the grid are considered water cells.

An island in `grid2` is considered a **sub-island** if there is an island in `grid1` that contains **all** the cells that make up **this** island in `grid2`.

Return the *number of islands in `grid2` that are considered sub-islands*.

Example 1:

1	1	1	0	0
0	1	1	1	1
0	0	0	0	0
1	0	0	0	0
1	1	0	1	1

1	1	1	0	0
0	0	1	1	1
0	1	0	0	0
1	0	1	1	0
0	1	0	1	0

Input: `grid1 = [[1,1,1,0,0],[0,1,1,1,1],[0,0,0,0,0],[1,0,0,0,0],[1,1,0,1,1]]`, `grid2 = [[1,1,1,0,0],[0,0,1,1,1],[0,1,0,0,0],[1,0,1,1,0],[0,1,0,1,0]]`

Output: 3

Explanation: In the picture above, the grid on the left is `grid1` and the grid on the right is `grid2`. The 1s colored red in `grid2` are those considered to be part of a sub-island. There are three sub-islands.

Example 2:

1	0	1	0	1
1	1	1	1	1
0	0	0	0	0
1	1	1	1	1
1	0	1	0	1

0	0	0	0	0
1	1	1	1	1
0	1	0	1	0
0	1	0	1	0
1	0	0	0	1

Input: `grid1 = [[1,0,1,0,1],[1,1,1,1,1],[0,0,0,0,0],[1,1,1,1,1],[1,0,1,0,1]]`, `grid2 = [[0,0,0,0,0],[1,1,1,1,1],[0,1,0,1,0],[0,1,0,1,0],[1,0,0,0,1]]`

Output: 2

Explanation: In the picture above, the grid on the left is `grid1` and the grid on the right is `grid2`. The 1s colored red in `grid2` are those considered to be part of a sub-island. There are two sub-islands.

Constraints:

- $m == \text{grid1.length} == \text{grid2.length}$
- $n == \text{grid1}[i].\text{length} == \text{grid2}[i].\text{length}$
- $1 \leq m, n \leq 500$
- `grid1[i][j]` and `grid2[i][j]` are either `0` or `1`.

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class Solution {

public int countSubIslands(int[][] grid1, int[][] grid2) {

}

}

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Console

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