

2257. Count Unguarded Cells in the Grid

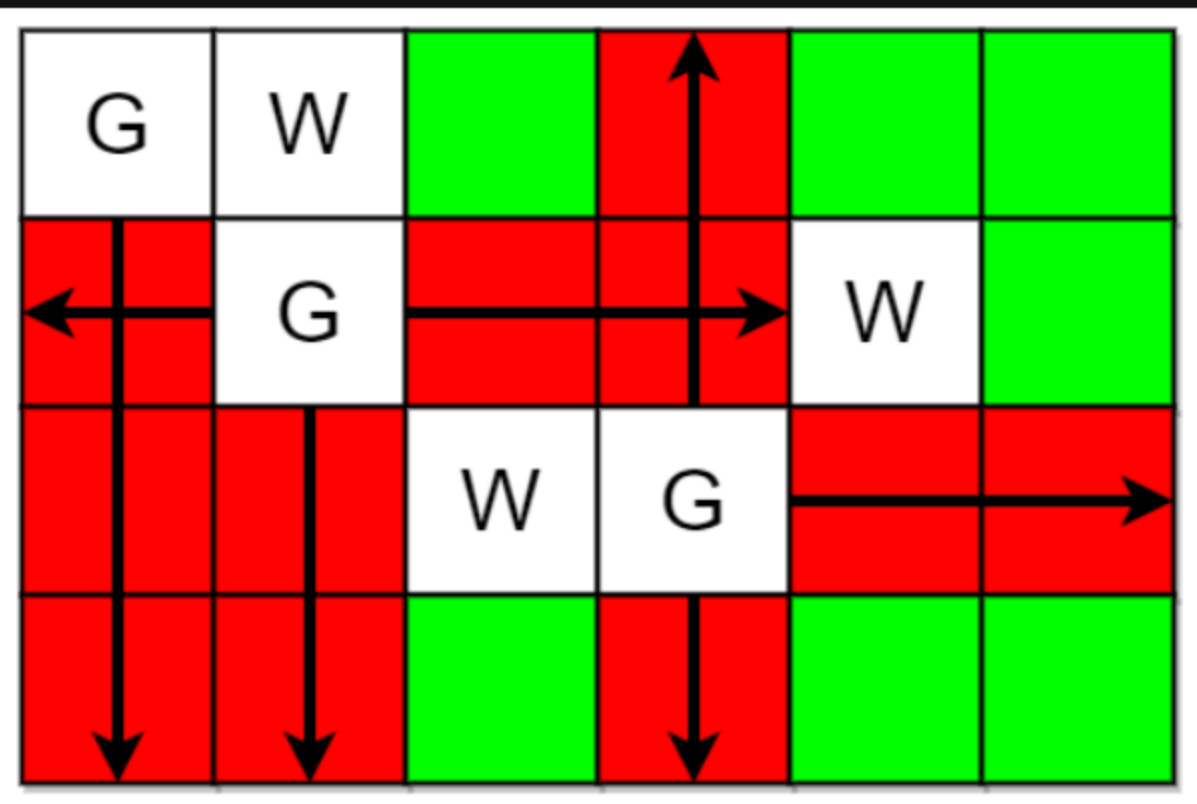
Description

You are given two integers `m` and `n` representing a **0-indexed** `m x n` grid. You are also given two 2D integer arrays `guards` and `walls` where `guards[i] = [rowi, coli]` and `walls[j] = [rowj, colj]` represent the positions of the `ith` guard and `jth` wall respectively.

A guard can see **every** cell in the four cardinal directions (north, east, south, or west) starting from their position unless **obstructed** by a wall or another guard. A cell is **guarded** if there is **at least** one guard that can see it.

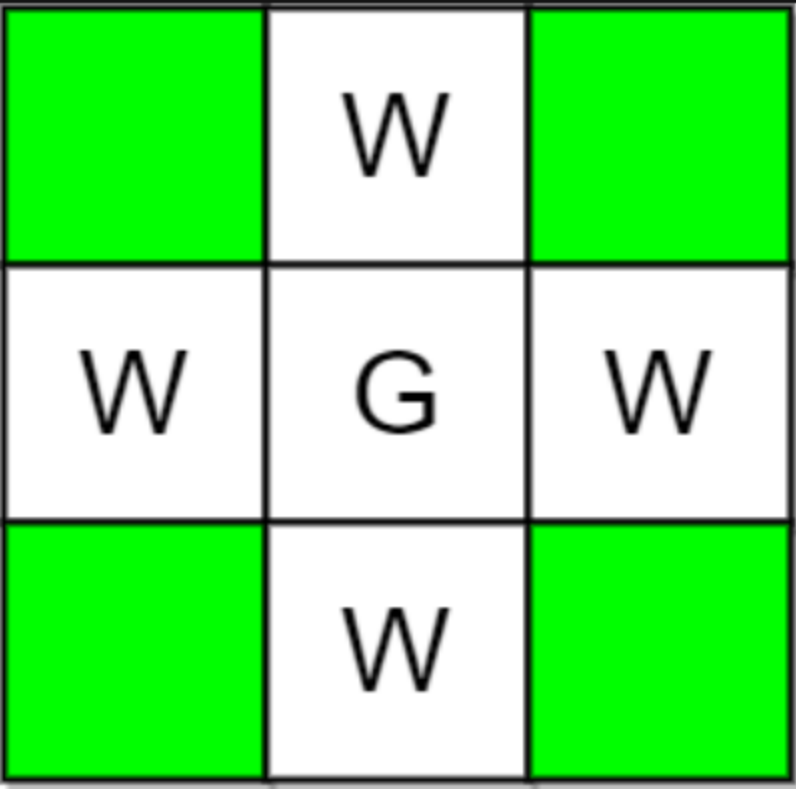
Return *the number of unoccupied cells that are **not guarded**.*

Example 1:



Input: `m = 4, n = 6, guards = [[0,0],[1,1],[2,3]], walls = [[0,1],[2,2],[1,4]]`
Output: `7`
Explanation: The guarded and unguarded cells are shown in red and green respectively in the above diagram. There are a total of 7 unguarded cells, so we return 7.

Example 2:



Input: `m = 3, n = 3, guards = [[1,1]], walls = [[0,1],[1,0],[2,1],[1,2]]`
Output: `4`
Explanation: The unguarded cells are shown in green in the above diagram. There are a total of 4 unguarded cells, so we return 4.

Constraints:

- `1 <= m, n <= 105`
- `2 <= m * n <= 105`
- `1 <= guards.length, walls.length <= 5 * 104`
- `2 <= guards.length + walls.length <= m * n`
- `guards[i].length == walls[j].length == 2`
- `0 <= rowi, rowj < m`
- `0 <= coli, colj < n`
- All the positions in `guards` and `walls` are **unique**.

