3531. Count Covered Buildings

Solved •

Topics Companies

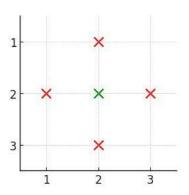
Hint

You are given a positive integer n, representing an n x n city. You are also given a 2D grid buildings, where buildings[i] = [x, y] denotes a **unique** building located at coordinates [x, y].

A building is **covered** if there is at least one building in all **four** directions: left, right, above, and below.

Return the number of covered buildings.

Example 1:



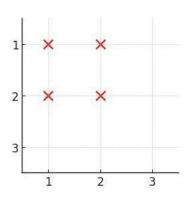
Input: n = 3, buildings = [[1,2],[2,2],[3,2],[2,1],[2,3]]

Output: 1

Explanation:

- Only building [2,2] is covered as it has at least one building:
 - above ([1,2])
 - below ([3,2])
 - left ([2,1])
 - right ([2,3])
- Thus, the count of covered buildings is 1.

Example 2:



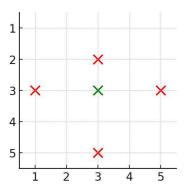
Input: n = 3, buildings = [[1,1],[1,2],[2,1],[2,2]]

Output: 0

Explanation:

No building has at least one building in all four directions.

Example 3:



Input: n = 5, buildings = [[1,3],[3,2],[3,3],[3,5],[5,3]]

Output: 1

Explanation:

- Only building [3,3] is covered as it has at least one building:
 - above ([1,3])
 - below ([5,3])
 - left ([3,2])
 - right ([3,5])
- Thus, the count of covered buildings is 1.

Constraints:

- 2 <= n <= 10⁵
- 1 <= buildings.length <= 10⁵
- buildings[i] = [x, y]
- 1 <= x, y <= n
- All coordinates of buildings are **unique**.

Seen this question in a real interview before? 1/5

Yes No

Topics

Accepted 17.9K Submissions 48.9K Acceptance Rate 36.7%

Companies

Hint 1

Hint 2

Discussion (20)