3128. Right Triangles

Solved

Medium ♥ Topics ⓓ Companies ۞ Hint

You are given a 2D boolean matrix grid.

Return an integer that is the number of **right triangles** that can be made with the 3 elements of grid such that **all** of them have a value of 1.

Note:

• A collection of 3 elements of grid is a **right triangle** if one of its elements is in the **same row** with another element and in the **same column** with the third element. The 3 elements do not have to be next to each other.

Example 1:

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

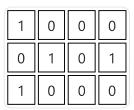
Input: grid = [[0,1,0],[0,1,1],[0,1,0]]

Output: 2

Explanation:

There are two right triangles.

Example 2:



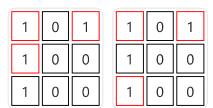
Input: grid = [[1,0,0,0],[0,1,0,1],[1,0,0,0]]

Output: 0

Explanation:

There are no right triangles.

Example 3:



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

Output: 2

Explanation:

There are two right triangles.

Constraints:

- 1 <= grid.length <= 1000
- 1 <= grid[i].length <= 1000
- 0 <= grid[i][j] <= 1

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

Yes No

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Hint 1

Hint 2

Hint 3

Discussion (17)

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