## 750. Number Of Corner Rectangles Premium **€** Companies ♥ Topics Medium Given an $m \times n$ integer matrix grid where each entry is only 0 or 1, return the number of corner rectangles. A corner rectangle is four distinct 1's on the grid that forms an axis-aligned rectangle. Note that only the corners need to have the value 1. Also, all four 1's used must be distinct. Example 1: 0 0 0 0 0 0 0 0 0 0 0 Input: grid = [[1,0,0,1,0],[0,0,1,0,1],[0,0,0,1,0],[1,0,1,0,1]]Explanation: There is only one corner rectangle, with corners grid[1][2], grid[1][4], grid[3][2], grid[3][4]. Example 2: **Input:** grid = [[1,1,1],[1,1,1],[1,1,1]]Output: 9 Explanation: There are four 2x2 rectangles, four 2x3 and 3x2 rectangles, and one 3x3 rectangle. Example 3: **Input:** grid = [[1,1,1,1]]Output: 0 Explanation: Rectangles must have four distinct corners. Constraints: m == grid.length n == grid[i].length • 1 <= m, n <= 200 grid[i][j] is either 0 or 1. • The number of 1's in the grid is in the range [1, 6000]. Seen this question in a real interview before? 1/5 Yes No Accepted 39.3K Submissions 57.9K Acceptance Rate 67.8% Topics Dynamic Programming Array Math Companies 0 - 6 months Meta (2) O Hint 1 For each pair of 1s in the new row (say at `new\_row[i]` and `new\_row[j]`), we could create more rectangles where that pair forms the base. The number of new rectangles is the number of times some previous row had 'row[i] = row[j] = 1. Discussion (3)

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