## 562. Longest Line of Consecutive One in Matrix **€** Companies ♥ Topics Medium Given an $m \times n$ binary matrix mat, return the length of the longest line of consecutive one in the matrix. The line could be horizontal, vertical, diagonal, or anti-diagonal. Example 1: 0 0 0 0 0 0 Input: mat = [[0,1,1,0],[0,1,1,0],[0,0,0,1]]Output: 3 Example 2: (e) 0 0 0 0 0 **Input:** mat = [[1,1,1,1],[0,1,1,0],[0,0,0,1]]Output: 4 Constraints: m == mat.length n == mat[i].length 1 <= m, n <= 10<sup>4</sup> $1 <= m * n <= 10^4$ mat[i][j] is either 0 or 1. Seen this question in a real interview before? 1/5 Yes No Accepted 77.8K Submissions 154.2K Acceptance Rate 50.5% Topics Array Dynamic Programming Matrix Companies 0 - 6 months Google 2 6 months ago TikTok 3 One solution is to count ones in each direction separately and find the longest line. Don't you think it will take too much lines of code? O Hint 2 Is it possible to use some extra space to make the solution simple? O Hint 3 Can we use dynamic programming to make use of intermediate results? Think of a 3D array which can be used to store the longest line obtained so far for each direction. Discussion (5)

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