1428. Leftmost Column with at Least a One Premium Medium ♥ Topics ② Companies ۞ Hint A row-sorted binary matrix means that all elements are 0 or 1 and each row of the matrix is sorted in non-decreasing order. Given a row-sorted binary matrix binaryMatrix, return the index (0-indexed) of the leftmost column with a 1 in it. If such an index does not exist, return -1. You can't access the Binary Matrix directly. You may only access the matrix using a BinaryMatrix interface: • BinaryMatrix.get(row, col) returns the element of the matrix at index (row, col) (0-indexed). • BinaryMatrix.dimensions() returns the dimensions of the matrix as a list of 2 elements [rows, cols], which means the matrix is rows x cols. Submissions making more than 1000 calls to BinaryMatrix.get will be judged Wrong Answer. Also, any solutions that attempt to circumvent the judge will result in disqualification. For custom testing purposes, the input will be the entire binary matrix mat. You will not have access to the binary matrix directly. Example 1: Input: mat = [[0,0],[1,1]] Output: 0 Example 2: **Input:** mat = [[0,0],[0,1]] Output: 1 Example 3: 0 **Input:** mat = [[0,0],[0,0]] Output: -1Constraints: rows == mat.length cols == mat[i].length • 1 <= rows, cols <= 100 mat[i][j] is either 0 or 1. • mat[i] is sorted in non-decreasing order. Seen this question in a real interview before? 1/5 No Accepted 187.7K Submissions **342.8K** Acceptance Rate **54.7%** ♥ Topics Array Binary Search Matrix Interactive Companies 0 - 3 months Meta 2 0 - 6 months Uber 5 6 months ago TikTok 2 O Hint 1 1. (Binary Search) For each row do a binary search to find the leftmost one on that row and update the answer. O Hint 2 2. (Optimal Approach) Imagine there is a pointer p(x, y) starting from top right corner. p can only move left or down. If the value at p is 0, move down. If the value at p is 1, move left. Try to figure out the correctness and time complexity of this algorithm. Discussion (16)

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