## 2174. Remove All Ones With Row and Column Flips II Premium Medium ♥ Topics 🖫 Companies 🗘 Hint You are given a **0-indexed** $m \times n$ binary matrix grid. In one operation, you can choose any i and j that meet the following conditions: • 0 <= i < m • 0 <= j < n • grid[i][j] == 1 and change the values of **all** cells in row [i] and column [j] to zero. Return the **minimum** number of operations needed to remove all 1's from grid. Example 1: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 Input: grid = [[1,1,1],[1,1,1],[0,1,0]]Output: 2 Explanation: In the first operation, change all cell values of row 1 and column 1 to zero. In the second operation, change all cell values of row 0 and column 0 to zero. Example 2: 0 0 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 **Input:** grid = [[0,1,0],[1,0,1],[0,1,0]] Output: 2 Explanation: In the first operation, change all cell values of row 1 and column 0 to zero. In the second operation, change all cell values of row 2 and column 1 to zero. Note that we cannot perform an operation using row 1 and column 1 because grid[1][1] != 1. Example 3: 0 0 0 **Input:** grid = [[0,0],[0,0]] Output: 0 Explanation: There are no 1's to remove so return 0. **Constraints:** • m == grid.length n == grid[i].length • 1 <= m, n <= 15 • 1 <= m \* n <= 15 • grid[i][j] is either 0 or 1. Seen this question in a real interview before? 1/5 Yes No Accepted **5.1K** Submissions **7.6K** Acceptance Rate 67.2% ♥ Topics Array Bit Manipulation Breadth-First Search Matrix **Companies** 0 - 6 months Google 2 Q Hint 1 With the given constraints, could a brute force solution pass? O Hint 2 What would a brute force solution look like? O Hint 3 We can try every single possibility of choosing to do an operation on a cell with a 1 or choosing to ignore it. **₹** Similar Questions **Set Matrix Zeroes** Minimum Number of Flips to Convert Binary Matrix to Zero Matrix

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