1183. Maximum Number of Ones Premium Topics Ell Companies ∩ Hint Hard Consider a matrix M with dimensions width * height, such that every cell has value 0 or 1, and any square sub-matrix of M of size sideLength * sideLength has at most max0nes ones. Return the maximum possible number of ones that the matrix M can have. Example 1: Input: width = 3, height = 3, sideLength = 2, maxOnes = 1 Output: 4 Explanation: In a 3*3 matrix, no 2*2 sub-matrix can have more than 1 one. The best solution that has 4 ones is: [1,0,1][0,0,0][1,0,1]Example 2: Input: width = 3, height = 3, sideLength = 2, maxOnes = 2 Output: 6 Explanation: [1,0,1][1,0,1][1,0,1]Constraints: 1 <= width, height <= 100 1 <= sideLength <= width, height 0 <= maxOnes <= sideLength * sideLength Seen this question in a real interview before? 1/5 Yes No Accepted 5.2K | Submissions 7.7K | Acceptance Rate 68.4% Topics Heap (Priority Queue) Greedy Companies 0 - 6 months Qualcomm (2) Hint 1 Ō Think of a greedy mathematical solution. ଠ Hint 2 Say you choose to set some cell (i, j) to 1, all cells (x, y) such that i % sideLength ==x % sideLength and j % sideLength == y % sideLength can also be set to 1 without increasing the max number of ones in a sub-matrix. Hint 3 In one move, choose to set all the cells with some modulus (i % sideLength, j % sideLength) to 1. Hint 4

Discussion (5)

Choose the cells with max frequency.