1151. Minimum Swaps to Group All 1's Together Premium Medium ♥ Topics 🖫 Companies ♀ Hint Given a binary array data, return the minimum number of swaps required to group all 1's present in the array together in any place in the array. Example 1: **Input:** data = [1,0,1,0,1]Output: 1 Explanation: There are 3 ways to group all 1's together: [1,1,1,0,0] using 1 swap. [0,1,1,1,0] using 2 swaps. [0,0,1,1,1] using 1 swap. The minimum is 1. Example 2: **Input:** data = [0,0,0,1,0]Output: 0 Explanation: Since there is only one 1 in the array, no swaps are needed. Example 3: Input: data = [1,0,1,0,1,0,0,1,1,0,1] Output: 3 Explanation: One possible solution that uses 3 swaps is [0,0,0,0,0,1,1,1,1,1,1,1]. Constraints: • 1 <= data.length <= 10⁵ data[i] is either 0 or 1. Seen this question in a real interview before? 1/5 No Yes Submissions 122.5K Accepted 73.9K Acceptance Rate 60.3% Topics Sliding Window Array Companies 0 - 3 months TikTok 15 0 - 6 months Expedia 2 6 months ago Microsoft 2 Q Hint 1 How many 1's should be grouped together? Is not a fixed number? Ø Hint 2 Yeah it's just the number of 1's the whole array has. Let's name this number as ones Ø Hint 3 Every subarray of size of ones, needs some number of swaps to reach, Can you find the number of swaps needed to group all 1's in this subarray? Hint 4 It's the number of zeros in that subarray. Hint 5 Do you need to count the number of zeros all over again for every position? Hint 6 Use Sliding Window technique. E Similar Questions Minimum Adjacent Swaps for K Consecutive Ones Minimum Swaps to Group All 1's Together II Medium Time Needed to Rearrange a Binary String Medium Minimum Moves to Pick K Ones Discussion (9)

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