1151. Minimum Swaps to Group All 1's Together Premium ∩ Hint Medium 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]. Constraints: • 1 <= data.length <= 10⁵ data[i] is either 0 or 1. Seen this question in a real interview before? 1/5 Yes No Accepted 74.2K Submissions 122.9K Acceptance Rate 60.3% Topics Sliding Window Array Companies 0 - 3 months TikTok 15 0 - 6 months Expedia 2 6 months ago Microsoft 2 Ω Hint 1 How many 1's should be grouped together? Is not a fixed number? Yeah it's just the number of 1's the whole array has. Let's name this number as ones 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? It's the number of zeros in that subarray. Do you need to count the number of zeros all over again for every position? Use Sliding Window technique. ₩ 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 Hard Discussion (9)

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