2098. Subsequence of Size K With the Largest Even Sum Premium Medium ♥ Topics 🖫 Companies 🗘 Hint You are given an integer array nums and an integer k. Find the largest even sum of any subsequence of nums that has a length of k. Return this sum, or -1 if such a sum does not exist. A subsequence is an array that can be derived from another array by deleting some or no elements without changing the order of the remaining elements. Example 1: **Input:** nums = [4,1,5,3,1], k = 3 Output: 12 Explanation: The subsequence with the largest possible even sum is [4,5,3]. It has a sum of 4 + 5 + 3 = 12. Example 2: **Input:** nums = [4,6,2], k = 3 Output: 12 Explanation: The subsequence with the largest possible even sum is [4,6,2]. It has a sum of 4 + 6 + 2 = 12. Example 3: **Input:** nums = [1,3,5], k = 1 Output: -1 Explanation: No subsequence of nums with length 1 has an even sum. **Constraints:** • 1 <= nums.length <= 10⁵ • 0 <= nums[i] <= 10⁵ • 1 <= k <= nums.length Seen this question in a real interview before? 1/5 Yes No Submissions 10K ♥ Topics Array Greedy Sorting **Companies** 0 - 6 months Microsoft 2 DRW 2 RetailMeNot 2 Q Hint 1 Is the sum of two even numbers even or odd? How about two odd numbers? One odd number and one even number? O Hint 2 If there is an even number of odd numbers, the sum will be even and vice versa. O Hint 3 Create an integer array to store all the even numbers in nums and another array to store all the odd numbers in nums. Sort both arrays. **₹** Similar Questions Split Array Largest Sum Partition Array for Maximum Sum Number of Sub-arrays With Odd Sum Discussion (5)

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