

2098. Subsequence of Size K With the Largest Even Sum

Description

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`

