**Problem Name Two Sum - Less than or equal to target**

**Topics:**

**Companies:**

**Level:** Easy

**Language:** C++

**Problem Statement**

**Input Format:**

First line of the input contain integer n (size of list)

Second line contain n space separated integer list values.

Last line contain integer value pos representing value of node to delete.

Ex:

5

1 2 3 4 5

1

**Output Format:** Print linked list after removing node having value pos

**Constraints:**

**Examples:**

**Input:** head = [4,5,1,9], node = 5

**Output:** [4,1,9]

**Explanation:** You are given the second node with value 5, the linked list should become 4 -> 1 -> 9 after calling your function.

**Brute force Solution:**

# Explanation:

**Code:**

**Time Complexity**: O(NlogN)

**Space Complexity:** O(n) for the sorted array (assuming we cannot modify the input)

**Optimized Solution:**

# Explanation:

# The idea is to sort first, then collide the double pointers, and set the left pointer to i, the right pointer is j, compare the relationship between the sum of two numbers and target at the same time, and accumulate the result. If the sum is greater than target, then shift j to the left; otherwise, specify A [i] and A [i + 1], A [i + 2],..., A [j] A[i+1],A[i+2], If the sum of A [ j ] satisfies the condition, then j − i is added to the result, while i is shifted right. And so, until the two pointers meet.

**Code:**

**Time Complexity**: O(nlogn)

**Space Complexity:** O(1)