**Count Triplets with Sum Smaller Than a Given Value**

class Solution {

    countTriplets(arr,N,sum){

      arr.sort((a, b) => a - b);

    let count = 0;

    for (let i = 0; i < N - 2; i++) {

        let left = i + 1, right = N - 1;

        while (left < right) {

            let currentSum = arr[i] + arr[left] + arr[right];

            if (currentSum < sum) {

                count += (right - left);

                left++;

            } else {

                right--;

            }

        }

    }

    return count;

    }

}

const solution = new Solution();

const arr1 = [5, 1, 3, 4, 7];

const N1 = arr1.length;

const sum1 = 12;

console.log(solution.countTriplets(arr1, N1, sum1));

const arr2 = [-2, 0, 1, 3];

const N2 = arr2.length;

const sum2 = 2;

console.log(solution.countTriplets(arr2, N2, sum2));