

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));
```