

Description

Solution

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259. 3Sum Smaller

Medium

👍 1069

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Given an array of `n` integers `nums` and an integer `target`, find the number of index triplets `i, j, k` with $0 \leq i < j < k < n$ that satisfy the condition `nums[i] + nums[j] + nums[k] < target`.

Example 1:

Input: `nums = [-2,0,1,3]`, `target = 2`
Output: `2`
Explanation: Because there are two triplets which sums are less than 2:
`[-2,0,1]`
`[-2,0,3]`

Example 2:

Input: `nums = []`, `target = 0`
Output: `0`

Example 3:

Input: `nums = [0]`, `target = 0`
Output: `0`

Constraints:

- `n == nums.length`
- `0 <= n <= 3500`
- `-100 <= nums[i] <= 100`
- `-100 <= target <= 100`

Accepted 101,156

Submissions 202,480

Seen this question in a real interview before?

Yes

No

Companies

👤

i

0 ~ 6 months

6 months ~ 1 year

1 year ~ 2 years

Citadel | 10

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i Java

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```
1 class Solution {
2     public int threeSumSmaller(int[] nums, int target) {
3         Arrays.sort(nums);
4         int sum = 0;
5         for (int i = 0; i < nums.length - 2; i++) {
6             sum += twoSumSmaller(nums, i + 1, target - nums[i]);
7         }
8         return sum;
9     }
10
11     private int twoSumSmaller(int[] nums, int startIndex, int target) {
12         int sum = 0;
13         int left = startIndex;
14         int right = nums.length - 1;
15         while (left < right) {
16             if (nums[left] + nums[right] < target) {
17                 sum += right - left;
18                 left++;
19             } else {
20                 right--;
21             }
22         }
23         return sum;
24     }
25 }
```