

Editorial



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Dash











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Difficulty: Medium Accuracy: 48.57% Submissions: 48K+ Points: 4

Count all triplets with given sum in sorted array □

Given a sorted array arr[] and a target value, the task is to count triplets (i, j, k) of valid indices, such that arr[i] + arr[i] + arr[k] = target and i < j < k.

Examples:

Input: arr[] = [-3, -1, -1, 0, 1, 2], target = -2

Output: 4

Explanation: Four triplets that add up to -2 are:

$$arr[0] + arr[3] + arr[4] = (-3) + 0 + (1) = -2$$

$$arr[0] + arr[1] + arr[5] = (-3) + (-1) + (2) = -2$$

$$arr[0] + arr[2] + arr[5] = (-3) + (-1) + (2) = -2$$

$$arr[1] + arr[2] + arr[3] = (-1) + (-1) + (0) = -2$$

Input: arr[] = [-2, 0, 1, 1, 5], target = 1

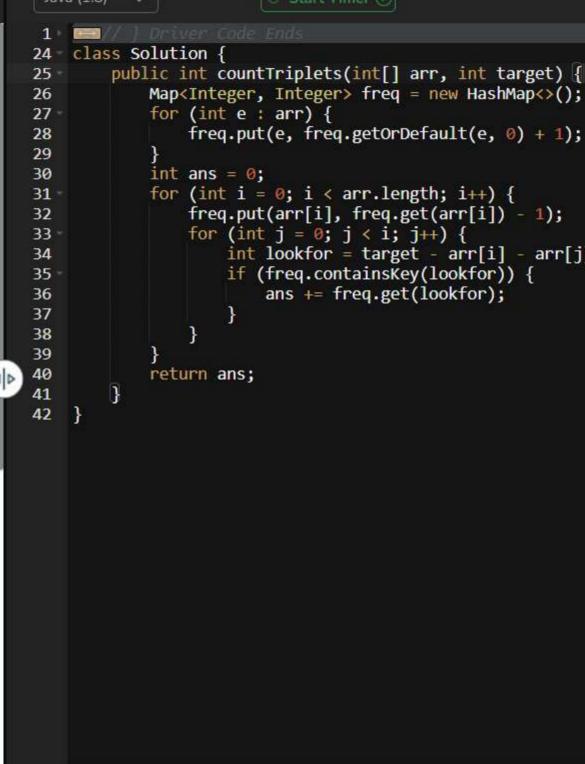
Output: 0

Explanation: There is no triplet whose sum is equal to 1.

Constraints:

 $3 < arr size() < 10^4$

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Java (1.8) 🔻
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freq.put(e, freq.getOrDefault(e, 0) + 1);

freq.put(arr[i], freq.get(arr[i]) - 1);

if (freq.containsKey(lookfor)) {

ans += freq.get(lookfor);

int lookfor = target - arr[i] - arr[j];

for (int j = 0; j < i; j++) {