



Dash



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Java (1.8)

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Pair with given sum in a sorted array



Difficulty: Easy

Accuracy: 26.04%

Submissions: 92K+

Points: 2

You are given an integer **target** and an array **arr[]**. You have to find number of pairs in **arr[]** which sums up to **target**. It is given that the elements of the **arr[]** are in **sorted** order.

Note: pairs should have elements of distinct indexes.

Examples :

Input: arr[] = [-1, 1, 5, 5, 7], target = 6

Output: 3

Explanation: There are 3 pairs which sum up to 6 : {1, 5}, {1, 5} and {-1, 7}.

Input: arr[] = [1, 1, 1, 1], target = 2

Output: 6

Explanation: There are 6 pairs which sum up to 2 : {1, 1}, {1, 1}, {1, 1}, {1, 1}, {1, 1} and {1, 1}.

Input: arr[] = [-1, 10, 10, 12, 15], target = 125

1 // } Driver Code Ends

```
10
11 class Solution {
12     int countPairs(int arr[], int target) {
13         Map<Integer, Integer> freqMap = new HashMap<>();
14         int count = 0;
15         for (int num : arr) {
16             int complement = target - num;
17             if (freqMap.containsKey(complement)) {
18                 count += freqMap.get(complement);
19             }
20             freqMap.put(num, freqMap.getOrDefault(num, 0) + 1);
21         }
22         return count;
23     }
24 }
```

25 // } Driver Code Ends

[Custom Input](#)

Compile & Run

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