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Good Pairs AZ101

? Ask Doubt

Time-Limit: 2 sec Score: 75.00/100 Difficulty : ★★

Memory: 256 MB Accepted Submissions: 100

Description

You are given two arrays A and B, both of size N. A pair is called good if $i < j$ and $A_i + A_j > B_i + B_j$. Find the number of good pairs.

Input Format

The first line of the input contains one integer T - the number of test cases. Then T test cases follow.

The first line of each test case contains one integer N - the length of the array.

The second line of each test case contains N space-separated integers.

The third line of each test case contains N space-separated integers.

Output Format

For each test case, print the number of good pairs.

Constraints

$1 \leq T \leq 10^6$

$1 \leq N \leq 10^6$

$1 \leq A_i \leq 10^9$

It is guaranteed that the sum of N over all test cases does not exceed 10^6 .

Sample Input 1

Copy

```
3
4
2 3 5 4
2 1 5 6
3
1 4 6
2 3 3
5
5 6 1 1 2
1 9 2 4 1
```

Sample Output 1

Copy

C++14[GCC] ▾

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