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SUMPAIR

? Ask Doubt

Time-Limit: 1 sec Score: 0/100 Difficulty :

Memory: 256 MB Accepted Submissions: 100 Relevant For: AZ-201

Description

Given two integer arrays A and B, you have to implement a data structure that supports queries of two types:

1. **Add** a positive integer to an element of a given index in the array *B*.
2. **Count** the number of pairs *(i, j)* such that *A[i] + B[j]* equals a given value ***total***

Input Format

Implement the ***FindPairswithSum*** class:

- FindPairswithSum(vector<int> &A, vector<int> &B) : Initializes the FindPairswithSum object with two integer arrays *A* and *B*.
- void add(int index, int val) : Adds *val* to B[*index*] (**0-indexing**).
- int count(int total) : Returns the number of pairs *(i, j)* such that *A[i] + B[j] == total*.

Output Format

For every call to the count function the number of pairs are printed.

Constraints

$1 \le A.length \le 1000$

$1 \le B.length \le 10^5$

$1 \le A[i],B[i] \le 10^5$

$0 \le index < B.length$

$1 \le val \le 10^5$

$1 \le total \le 2 \times 10^9$

*At most 1000 calls are made to **add** and **count** each.*

Sample Input 1

Copy

```
3 3 3
4 5 6
1 2 3
count 7
add 0 2
count 9
```

C++14[GCC]

Submit

```
#include <bits/stdc++.h>
using namespace std;

class FindPairswithSum
```