
Null triplets

X50401_en

We say that a integer triplet a, b, c is null when the central number (that is, b) is equal to the sum of the other two (that is, a and c).

Write a program such that given a sequence of integer lists, it prints how many null triplets are in each list. The program also has to print the total number of null triplets in the sequence.

Exam score: 4.000000 **Automatic part:** 40.000000%

Input

The input consists of a non-negative integer n followed by a sequence of n cases. Each case begins with a natural number $m \geq 2$ and then follows m integer numbers that form the list corresponding to the case.

Note that lists have at least two elements.

Output

For each case, the program prints the number of null triplets in the list. Finally, it prints the total number of null triplets following the examples format.

Sample input 1

```
6
2 1 -1
5 2 4 2 -2 -4
6 2 4 2 -3 6 8
5 -3 2 4 2 10
3 2 4 2
5 -3 -4 2 4 2
```

Sample output 1

```
0
3
1
1
1
1
1
Total: 7
```

Sample input 2

```
2
2 -2 -4
6 -2 4 2 -3 6 8
```

Sample output 2

```
0
0
Total: 0
```

Sample input 3

```
0
```

Sample output 3

```
Total: 0
```

Problem information

Author : Pro1

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