Interesting Triplets

locked

Problem Submissions Discussions

Time Limit: $C/C++$ $(2s)$, $Java$ $(3s)$
Memory Limit: $256MB$

Monzur has a sequence of positive integers A of length N. Monzur defines a triplet (x, y, z) interesting if it satisfies the following conditions:

- $1 \leq x < y < z \leq n$
- $A_x = -A_y$
- $A_z \neq A_x$ and $A_z \neq A_y$

Monzur wants to know how many different interesting triplets can he find in his sequence. Can you help him?

Input Format

The first line of input contains an integer T denoting the number of test cases. Then T testcases follow.

The first line of each test case contains an integer N — the length of the sequence.

The next line contains N space separated integers $A_1, A_2, \ldots, A_n$ — the sequence.

Constraints

$1 \leq T \leq 5$

$1 \leq N \leq 5 \times 10^5$

$-10^9 \leq A_i \leq 10^9$

Output Format

For each test case, output a single integer, the number of different interesting triplets.

Sample Input 0

```
2
7
1 -1 3 1 -1 0 -3
10
-1 -1 -2 2 0 1 0 3 1 0
```

Sample Output 0

```
9
16
```

Submissions: 276

Max Score: 100

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C

```c
#include <stdio.h>
#include <string.h>
#include <math.h>
#include <stdlib.h>

int main() {

    /* Enter your code here. Read input from STDIN. Print output to STDOUT */
    return 0;
}
```

Line: 1 Col: 1

Upload Code as File Test against custom input Run Code Submit Code