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Points: 1440.13 Rank: 4843

Sherlock and Pairs



by darkshadows

Problem

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Sherlock is given an array of N integers ($A_0, A_1 \dots A_{N-1}$) by Watson. Now Watson asks Sherlock how many different pairs of indices i and j exist such that i is not equal to j but A_i is equal to A_j .

That is, Sherlock has to count the total number of pairs of indices (i, j) where $A_i = A_j$ AND $i \neq j$.

Input Format

The first line contains T , the number of test cases. T test cases follow.

Each test case consists of two lines; the first line contains an integer N , the size of array, while the next line contains N space separated integers.

Output Format

For each test case, print the required answer on a different line.

Constraints

$$1 \leq T \leq 10$$

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

$$1 \leq A[i] \leq 10^6$$

Sample input

```
2
3
1 2 3
3
1 1 2
```

Sample output

```
0
2
```

Explanation

In the first test case, no two pair of indices exist which satisfy the given condition.



In the second test case as $A[0] = A[1] = 1$, the pairs of indices $(0,1)$ and $(1,0)$ satisfy the given condition.




Submissions: 5834

Max Score: 30

Difficulty: Moderate

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Current Buffer (saved locally, editable)  

Java 8   

```
1 import java.io.*;
2 import java.util.*;
3
4 public class Solution {
5
6     public static void main(String[] args) {
7         /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named
8         Solution. */
9     }
10 }
```

Line: 1 Col: 1

 [Upload Code as File](#)☐ Test against custom input

Run Code

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