Sherlock and Pairs



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
eq 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

```
\begin{array}{l} 1 \leq T \leq 10 \\ 1 \leq N \leq 10^5 \end{array}
```

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

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.