Sherlock is given an array of $N$ integers ( $A_{0}, A_{1} \ldots A_{N-1}$ 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 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.

