Duplicates

GLISUZoD is an alien from a weird planet and likes to do weird things with numbers. He's on Earth to attend Felicity. (Don't ask us why!) To add to his weirdness, this time he's looking forward to find out how many pairs of duplicate integers are present in a given array of integers, which contains *n* integers. Oh, and by the way, the pairs need not be distinct.

Input format:

The first line will contain the number of test cases. For each test case, first line will contain an integer 'n' denoting the number of elements present in the array A. Next line will contain the n integers.

Output format:

Output the number of duplicate pairs of integers present in the array.

Constraint:

1 <= Test Cases <= 10
1 <= n <= 1000000
-10^7 <= A[i] <= 10^7
max(A[i])-min(A[i])<=1000000

Sample input:

2
4
1 1 1 10
5
-2 3 -2 4 4

Sample output:

3
2

Sample Explanation:

In the first case, a[0] and a[1], a[1] and a[2], and a[0] and a[2] are the three pairs of duplicates.