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Sherlock and Anagrams

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Problem Statement

Given a string S , find the number of "unordered anagrammatic pairs" of substrings.

Input Format

First line contains T , the number of testcases. Each testcase consists of string S in one line.

Constraints

$$1 \leq T \leq 10$$

$$2 \leq \text{length}(S) \leq 100$$

String S contains only the lowercase letters of the English alphabet.

Output Format

For each testcase, print the required answer in one line.

Sample Input

```
2
abba
abcd
```

Sample Output

```
4
0
```

Explanation

Let's say $S[i, j]$ denotes the substring S_i, S_{i+1}, \dots, S_j .

testcase 1:

For $S = \text{abba}$, anagrammatic pairs are: $\{S[1, 1], S[4, 4]\}$, $\{S[1, 2], S[3, 4]\}$, $\{S[2, 2], S[3, 3]\}$ and $\{S[1, 3], S[2, 4]\}$.

testcase 2:

No anagrammatic pairs.

Submissions: 5216

Max Score: 50



Difficulty: Moderate



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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

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