Sherlock and Anagrams



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 \le T \le 10
```

 $2 \leq length(S) \leq 100$

String ${\it S}$ contains only the lowercase letters of the English alphabet.

Output Format

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

Sample Input#00

```
2
abba
abcd
```

Sample Output#00

4 0

Sample Input#01

5
ifailuhkqq
hucpoltgty
ovarjsnrbf
pvmupwjjjf
iwwhrlkpek

Sample Output#01

3 2 2 6 3

Explanation

Sample00

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

testcase 1:

For S= abba , an agrammatic 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.

Sample01

Left as an exercise to you.