# **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**

 $1 \le T \le 10$ 

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

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  $S_i, S_{i+1}, \cdots, S_j$  .

## 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  $\{S[1,3], S[2,4]\}$ .

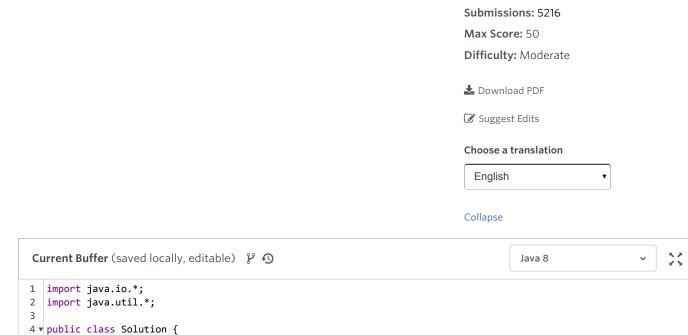
## testcase 2:

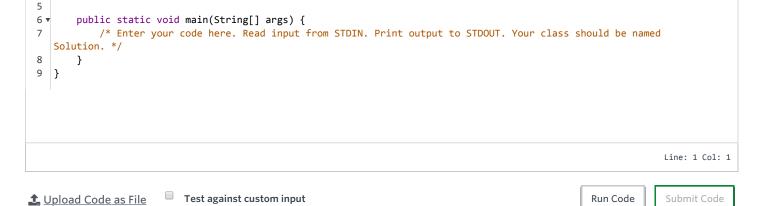
No anagrammatic pairs.

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