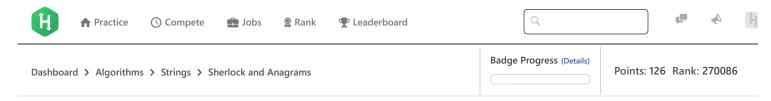
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Sherlock and Anagrams





Given a string S, find the number of "unordered anagrammatic pairs" of substrings. In other words, find the number of *unordered* pairs of substrings of S that are anagrams of each other.

Two strings are anagrams of each other if the letters of one string can be rearranged to form the other string.

Input Format

First line contains $m{T}$, the number of testcases. Each testcase consists of string $m{S}$ 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 0

abba abcd

Sample Output 0

0

Sample Input 1

5
ifailuhkqq
hucpoltgty
ovarjsnrbf
pvmupwjjjf
iwwhrlkpek

Sample Output 1

2

2

6

3

Explanation

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Sample 0

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: $\{S[1,1], S[4,4]\}$ (a and a), $\{S[1,2], S[3,4]\}$ (ab and ba), $\{S[2,2], S[3,3]\}$ (b and b) and $\{S[1,3], S[2,4]\}$ (abb and bba).

testcase 2:

No anagrammatic pairs.

Sample 1

Left as an exercise to you.

```
f in
Submissions:14958
Max Score:50
Difficulty: Medium
Rate This Challenge:
☆☆☆☆☆
Need Help?
Anagram
More
```

Run Code

Submit Code

```
Current Buffer (saved locally, editable) & 49
                                                                                           Java 7
1 ▼ import java.io.*;
   import java.util.*;
    import java.text.*;
    import java.math.*;
    import java.util.regex.*;
6
7 ▼ public class Solution {
8
9 ₩
        static int sherlockAndAnagrams(String s){
10
            // Complete this function
11
12
13 🔻
        public static void main(String[] args) {
            Scanner in = new Scanner(System.in);
14
15
            int q = in.nextInt();
            for(int a0 = 0; a0 < q; a0++){
16 ▼
17
                 String s = in.next();
                 int result = sherlockAndAnagrams(s);
18
19
                 System.out.println(result);
20
21
        }
22
    }
23
                                                                                                                     Line: 1 Col: 1
```

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Upload Code as File

Test against custom input