



Sherlock and Anagrams ★

Submissions

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Problem

Two strings are anagrams of each other if the letters of one string can be rearranged to form the other string. Given a string, find the number of pairs of substrings of the string that are anagrams of each other.

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Example

s = mom

The list of all anagrammatic pairs is [m, m], [mo, om] at positions [[0], [2]], [[0, 1], [1, 2]] respectively.

Leaderboard

Function Description

Complete the function sherlockAndAnagrams in the editor below.

sherlockAndAnagrams has the following parameter(s):

string s: a string

Returns

• int: the number of unordered anagrammatic pairs of substrings in s

Input Format

The first line contains an integer q, the number of queries.

Each of the next q lines contains a string s to analyze.

Constraints

 $1 \le q \le 10$

 $2 \leq \text{ length of } s \leq 100$

s contains only lowercase letters in the range ascii[a-z].

Sample Input 0

2

abba

abcd

Sample Output 0

4

0

Explanation 0

The list of all anagrammatic pairs is [a,a], [ab,ba], [b,b] and [abb,bba] at positions [[0], [3], [[0,1], [2,3], [[1], [2]] and [[0,1,2], [1,2,3]] respectively.

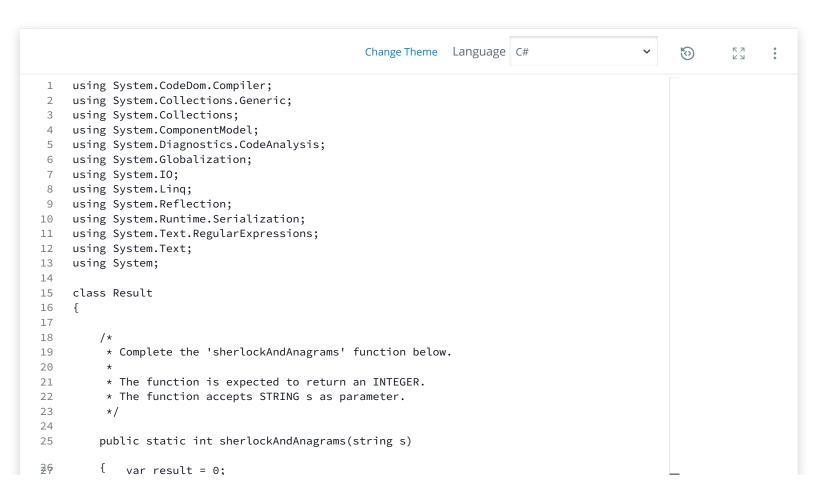
No anagrammatic pairs exist in the second query as no character repeats.

Sample Input 1

ifailuhkqq

kkkk

```
Sample Output 1
   3
   10
Explanation 1
For the first query, we have an gram pairs [i, i], [q, q] and [ifa, fai] at positions [[0], [3]], [[8], [9]] and [[0, 1, 2], [1, 2, 3]] respectively.
For the second query:
There are 6 anagrams of the form [k, k] at positions [[0], [1]], [[0], [2]], [[0], [3]], [[1], [2]], [[1], [3]] and [[2], [3]].
There are 3 anagrams of the form [kk, kk] at positions [[0, 1], [1, 2]], [[0, 1], [2, 3]] and [[1, 2], [2, 3]].
There is 1 anagram of the form [kkk, kkk] at position [[0, 1, 2], [1, 2, 3]].
Sample Input 2
   1
   cdcd
Sample Output 2
   5
Explanation 2
There are two anagrammatic pairs of length \mathbf{1}: [c,c] and [d,d].
There are three anagrammatic pairs of length 2: [cd, dc], [cd, cd], [dc, cd] at positions [[0, 1], [1, 2], [[0, 1], [2, 3]], [[1, 2], [2, 3]] respectively.
```



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Test against custom input

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