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Test Name: Mock Test

Taken On: 9 Apr 2022 13:20:47 IST

Time Taken: 27 min 32 sec/ 30 min

Resume: https://hackerrank-resumes.s3.amazonaws.com/14313602/2d5wcNSiVi9yCF6eHTOIaQiPWvRombN2f_3-qP995O3kQsQIlk7TcmvhCrNqrZkSyBA/Muhammet_Bugrahan_KARA_CV6.pdf

Invited by: Ankush

Invited on: 9 Apr 2022 13:20:22 IST

Skills Score:

Tags	Algorithms	70/70
Score:	Core CS	70/70
	Easy	70/70
	Strings	70/70
	problem-solving	70/70

100%

70/70

scored in **Mock Test** in 27 min 32 sec on 9 Apr 2022 13:20:47 IST

Recruiter/Team Comments:

No Comments.

	Question Description	Time Taken	Score	Status
Q1	Anagram > Coding	27 min 23 sec	70/ 70	✓

QUESTION 1

✓

Correct Answer

Score 70

Anagram > Coding

Strings

Algorithms

Easy

problem-solving

Core CS

QUESTION DESCRIPTION

Two words are *anagrams* of one another if their letters can be rearranged to form the other word.

Given a string, split it into two contiguous substrings of equal length. Determine the minimum number of characters to change to make the two substrings into anagrams of one another.

Example

s = **abccde**

Break *s* into two parts: 'abc' and 'cde'. Note that all letters have been used, the substrings are contiguous and their lengths are equal. Now you can change 'a' and 'b' in the first substring to 'd' and 'e' to have 'dec' and 'cde' which are anagrams. Two changes were necessary.

Function Description

Complete the *anagram* function in the editor below.

anagram has the following parameter(s):

- *string s*: a string

Returns

- *int*: the minimum number of characters to change or -1.

Input Format

The first line will contain an integer, *q*, the number of test cases.

Each test case will contain a string *s*.

Constraints

- $1 \leq q \leq 100$
- $1 \leq |s| \leq 10^4$
- *s* consists only of characters in the range `ascii[a-z]`.

Sample Input

```
6
aaabbb
ab
abc
mnop
xyyx
xaxbbbx
```

Sample Output

```
3
1
-1
2
0
1
```

Explanation

Test Case #01: We split *s* into two strings *S1*='aaa' and *S2*='bbb'. We have to replace all three characters from the first string with 'b' to make the strings anagrams.

Test Case #02: You have to replace 'a' with 'b', which will generate "bb".

Test Case #03: It is not possible for two strings of unequal length to be anagrams of one another.

Test Case #04: We have to replace both the characters of first string ("mn") to make it an anagram of the other one.

Test Case #05: *S1* and *S2* are already anagrams of one another.

Test Case #06: Here *S1* = "xaxb" and *S2* = "bbxx". You must replace 'a' from *S1* with 'b' so that *S1* = "xbxb".

CANDIDATE ANSWER

Language used: **C++14**

```
1  /*
2  * Complete the 'anagram' function below.
```

```

3      *
4      * The function is expected to return an INTEGER.
5      * The function accepts STRING s as parameter.
6      */
7
8  int anagram(string s) {
9
10     int result=0;
11     if(s.size()%2)
12         return -1;
13
14     string s1=s.substr(0,s.size()/2);
15     string s3=s1;
16     string s2=s.substr(s.size()/2);
17     string s4=s2;
18     map<char,int> m1;
19     map<char,int> m2;
20
21     for(char ch1:s1){
22         m1[ch1]++;
23     }
24     for(char ch2:s2){
25         m1[ch2]--;
26     }
27
28     for(auto item:m1){
29         //cout<<item.first<<" "<<item.second<<endl;
30         if(item.second>0)
31             result+=item.second;
32     }
33
34     return result;
35 }
36 }
37
38

```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Hidden case	✔ Success	5	0.018 sec	9.12 KB
Testcase 2	Easy	Hidden case	✔ Success	5	0.0202 sec	8.87 KB
Testcase 3	Easy	Hidden case	✔ Success	5	0.0213 sec	9.07 KB
Testcase 4	Easy	Hidden case	✔ Success	5	0.0169 sec	9.01 KB
Testcase 5	Easy	Hidden case	✔ Success	5	0.019 sec	9.02 KB
Testcase 6	Easy	Hidden case	✔ Success	5	0.0748 sec	8.98 KB
Testcase 7	Easy	Hidden case	✔ Success	5	0.0412 sec	9.17 KB
Testcase 8	Easy	Hidden case	✔ Success	5	0.0817 sec	8.87 KB
Testcase 9	Easy	Hidden case	✔ Success	5	0.042 sec	8.9 KB
Testcase 10	Easy	Hidden case	✔ Success	5	0.0835 sec	8.98 KB
Testcase 11	Easy	Hidden case	✔ Success	5	0.0373 sec	9.16 KB
Testcase 12	Easy	Hidden case	✔ Success	5	0.08 sec	9.11 KB
Testcase 13	Easy	Hidden case	✔ Success	5	0.0711 sec	9.04 KB
Testcase 14	Easy	Hidden case	✔ Success	5	0.068 sec	8.85 KB
Testcase 15	Easy	Sample case	✔ Success	0	0.0253 sec	9.02 KB
Testcase 16	Easy	Sample case	✔ Success	0	0.0186 sec	9.02 KB

No Comments

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