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Test Name:	**Mock Test**
Taken On:	26 Nov 2021 01:47:38 IST
Time Taken:	20 min 26 sec/ 30 min
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Invited by:	Ankush
Invited on:	26 Nov 2021 01:47:28 IST
Skills Score:	
Tags Score:	Algorithms 5/70 Core CS 5/70 Easy 5/70 Strings 5/70 problem-solving 5/70

7.1%

5/70

scored in **Mock Test** in 20 min 26 sec on 26 Nov 2021 01:47:38 IST

Recruiter/Team Comments:

No Comments.

	Question Description	Time Taken	Score	Status
Q1	Anagram > **Coding**	20 min 11 sec	5/ 70	✓

QUESTION 1

Correct Answer

Score 5

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
xaxbbbxx
```

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: **Python 3**

```
#
# Complete the 'anagram' function below.
#
# The function is expected to return an INTEGER.
# The function accepts STRING s as parameter.
#
```

```python
#

def anagram(s):
    # Write your code here
    if len(s) % 2 != 0:
        return -1
    half = int(len(s)/2)
    # split string into 2 lists of equal length
    l1 = list(s[0:half])
    l2 = list(s[half:])
    l1.sort()
    l2.sort()
    count = 0
    for i in range(len(l1)):
        if l1[i] != l2[i]:
            count += 1
    return count


```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Hidden case	Wrong Answer	0	0.0396 sec	9.46 KB
Testcase 2	Easy	Hidden case	Success	5	0.0587 sec	9.39 KB
Testcase 3	Easy	Hidden case	Wrong Answer	0	0.059 sec	9.37 KB
Testcase 4	Easy	Hidden case	Wrong Answer	0	0.0549 sec	9.45 KB
Testcase 5	Easy	Hidden case	Wrong Answer	0	0.0429 sec	9.39 KB
Testcase 6	Easy	Hidden case	Wrong Answer	0	0.2246 sec	9.54 KB
Testcase 7	Easy	Hidden case	Wrong Answer	0	0.0978 sec	9.61 KB
Testcase 8	Easy	Hidden case	Wrong Answer	0	0.2285 sec	9.52 KB
Testcase 9	Easy	Hidden case	Wrong Answer	0	0.0926 sec	9.54 KB
Testcase 10	Easy	Hidden case	Wrong Answer	0	0.2492 sec	9.54 KB
Testcase 11	Easy	Hidden case	Wrong Answer	0	0.0893 sec	9.44 KB
Testcase 12	Easy	Hidden case	Wrong Answer	0	0.2246 sec	9.62 KB
Testcase 13	Easy	Hidden case	Wrong Answer	0	0.2128 sec	9.54 KB
Testcase 14	Easy	Hidden case	Wrong Answer	0	0.2297 sec	9.45 KB
Testcase 15	Easy	Sample case	Success	0	0.0395 sec	9.43 KB
Testcase 16	Easy	Sample case	Success	0	0.0549 sec	9.52 KB

No Comments