Full Name:	Nitin Moturu
Email:	nitinmoturu@gmail.com
Test Name:	**Mock Test**
Taken On:	17 Aug 2024 08:54:09 IST
Time Taken:	20 min 7 sec/ 22 min
Invited by:	Ankush
Invited on:	17 Aug 2024 08:54:03 IST
Skills Score:	
Tags Score:	Algorithms 40/105 Core CS 40/105 Easy 40/105 Problem Solving 40/105 Strings 40/105 problem-solving 40/105

38.1%

40/105

scored in **Mock Test** in 20 min 7 sec on 17 Aug 2024 08:54:09 IST

Recruiter/Team Comments:

No Comments.

	Question Description	Time Taken	Score	Status
Q1	Palindrome Index > **Coding**	17 min 37 sec	40/ 105	✓

QUESTION 1

Correct Answer

Score 40

Palindrome Index > Coding

Strings | Algorithms | Easy | problem-solving | Core CS | Problem Solving

QUESTION DESCRIPTION

Given a string of lowercase letters in the range ascii[a-z], determine the index of a character that can be removed to make the string a palindrome. There may be more than one solution, but any will do. If the word is already a palindrome or there is no solution, return *-1*. Otherwise, return the index of a character to remove.

Example

$s = \text{"bcbc"}$

Either remove *'b'* at index 0 or *'c'* at index 3.

Function Description

Complete the *palindromeIndex* function in the editor below.

palindromeIndex has the following parameter(s):

- *string s:* a string to analyze

Returns

- *int:* the index of the character to remove or -1

Input Format

The first line contains an integer q, the number of queries.
Each of the next q lines contains a query string s.

Constraints

- $1 \leq q \leq 20$
- $1 \leq \text{length of } s \leq 10^5 + 5$
- All characters are in the range ascii[a-z].

Sample Input

```
STDIN   Function
-----   --------
3       q = 3
aaab    s = 'aaab' (first query)
baa     s = 'baa'  (second query)
aaa     s = 'aaa'  (third query)
```

Sample Output

```
3
0
-1
```

Explanation

Query 1: "aaab"
Removing *'b'* at index 3 results in a palindrome, so return 3.

Query 2: "baa"
Removing *'b'* at index 0 results in a palindrome, so return 0.

Query 3: "aaa"
This string is already a palindrome, so return -1. Removing any one of the characters would result in a palindrome, but this test comes first.

Note: The custom checker logic for this challenge is available here.

CANDIDATE ANSWER

Language used: **Python 3**

```
1
2  #
3  # Complete the 'palindromeIndex' function below.
4  #
5  # The function is expected to return an INTEGER.
6  # The function accepts STRING s as parameter.
7  #
8
9  def palindromeIndex(s):
10     # Write your code here
11     print(s)
12     index = -1
13     if (checkPalindrome(s)):
14         return index
15     else:
```

```
        for i in range(len(s)):
            temp = s[:i] + s[i+1:]
            if (checkPalindrome(temp)):
                print(temp)
                return i
    return index


def checkPalindrome(s):
    st = 0
    ed = len(s)-1
    while (st< ed):
        if(s[st] != s[ed]):
            return False
        st += 1
        ed -= 1
    return True

```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	Success	0	0.0413 sec	10.5 KB
Testcase 2	Medium	Hidden case	Wrong Answer	0	0.0408 sec	10.7 KB
Testcase 3	Medium	Hidden case	Success	5	0.0436 sec	10.5 KB
Testcase 4	Medium	Hidden case	Success	5	0.0322 sec	10.7 KB
Testcase 5	Medium	Hidden case	Success	5	0.038 sec	10.3 KB
Testcase 6	Medium	Hidden case	Terminated due to timeout	0	10.0063 sec	10.9 KB
Testcase 7	Medium	Hidden case	Success	5	8.3009 sec	10.8 KB
Testcase 8	Medium	Hidden case	Terminated due to timeout	0	10.0071 sec	11.1 KB
Testcase 9	Hard	Hidden case	Terminated due to timeout	0	10.0067 sec	10.9 KB
Testcase 10	Hard	Hidden case	Success	10	5.0861 sec	10.8 KB
Testcase 11	Hard	Hidden case	Terminated due to timeout	0	10.0132 sec	10.4 KB
Testcase 12	Hard	Hidden case	Success	10	0.0344 sec	10.7 KB
Testcase 13	Hard	Hidden case	Terminated due to timeout	0	10.0114 sec	10.7 KB
Testcase 14	Hard	Hidden case	Terminated due to timeout	0	10.0106 sec	10.8 KB
Testcase 15	Hard	Hidden case	Terminated due to timeout	0	10.0128 sec	10.7 KB

No Comments