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Test Name:	Mock Test
Taken On:	15 Sep 2023 22:29:09 IST
Time Taken:	12 min 38 sec/ 22 min
Invited by:	Ankush
Invited on:	15 Sep 2023 22:28:56 IST
Skills Score:	
Tags Score:	<div>Algorithms105/105</div> <div>Core CS105/105</div> <div>Easy105/105</div> <div>Problem Solving105/105</div> <div>Strings105/105</div> <div>problem-solving105/105</div>

100%

105/105

scored in **Mock Test** in 12 min 38 sec on 15 Sep 2023 22:29:09 IST

Recruiter/Team Comments:

No Comments.

Plagiarism flagged

We have marked questions with suspected plagiarism below. Please review it in detail here -

	Question Description	Time Taken	Score	Status
Q1	Palindrome Index > Coding	7 min 8 sec	105/ 105	!

QUESTION 1

!

Needs Review

Score 105

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 = "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 def palindromeIndex(s):
9     if s[0]==s[::-1]:
10         return -1
11
12     n=len(s)
13     for i in range(n//2):
14         if s[i] != s[n-1-i]:
15             if s[i:n-1-i]==s[i:n-1-i][::-1]:
16                 return n-1-i
17             elif s[i+1:n-i]==s[i+1:n-i][::-1]:
18                 return i
19     return -1
20
21

```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	✔ Success	0	0.0641 sec	10.6 KB
Testcase 2	Medium	Hidden case	✔ Success	5	0.0632 sec	10.9 KB
Testcase 3	Medium	Hidden case	✔ Success	5	0.0498 sec	10.8 KB
Testcase 4	Medium	Hidden case	✔ Success	5	0.0635 sec	10.8 KB
Testcase 5	Medium	Hidden case	✔ Success	5	0.0489 sec	10.7 KB
Testcase 6	Medium	Hidden case	✔ Success	5	0.0614 sec	11 KB
Testcase 7	Medium	Hidden case	✔ Success	5	0.0562 sec	11 KB
Testcase 8	Medium	Hidden case	✔ Success	5	0.0774 sec	11.1 KB
Testcase 9	Hard	Hidden case	✔ Success	10	0.0612 sec	11 KB
Testcase 10	Hard	Hidden case	✔ Success	10	0.0759 sec	11 KB
Testcase 11	Hard	Hidden case	✔ Success	10	0.0932 sec	10.8 KB
Testcase 12	Hard	Hidden case	✔ Success	10	0.0888 sec	10.7 KB
Testcase 13	Hard	Hidden case	✔ Success	10	0.0528 sec	11.2 KB
Testcase 14	Hard	Hidden case	✔ Success	10	0.0551 sec	11 KB
Testcase 15	Hard	Hidden case	✔ Success	10	0.0937 sec	11 KB

No Comments