



Full Name: Remi Chartier
Email: remipr.chartier@gmail.com
Test Name: Mock Test
Taken On: 27 Oct 2021 10:47:13 IST
Time Taken: 0 min 27 sec/ 22 min
Contact Number: +14084751573
Linkedin: http://www.linkedin.com/in/remichartier
Invited by: Ankush
Invited on: 27 Oct 2021 10:47:07 IST
Skills Score:
Tags Score:

- Algorithms 85/105
- Core CS 85/105
- Easy 85/105
- Problem Solving 85/105
- Strings 85/105
- problem-solving 85/105

81%
85/105

scored in **Mock Test** in 0 min 27 sec on 27 Oct 2021 10:47:13 IST

Recruiter/Team Comments:

No Comments.

	Question Description	Time Taken	Score	Status
Q1	Palindrome Index > Coding	15 sec	85/ 105	✔

QUESTION 1

✔
Correct Answer

Score 85

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 = "bcbcb"`

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 # Complete the 'palindromeIndex' function below.
3 #
4 # The function is expected to return an INTEGER.
5 # The function accepts STRING s as parameter.
6 #
7
8 def is_palindrome(s):
9     start = 0;
10    while start <= len(s) -1 -start:
11        if s[start] != s[len(s) -1 -start]:
12            return start
```

```

13         start +=1
14         return -1
15
16 def palindromeIndex(s):
17     # Write your code here
18     if len(s) == 0:
19         return -1
20     start = is_palindrome(s)
21     if start == -1:
22         return -1
23     # otherwise, test by removing char at position start
24     # and removing char at position len(s) -1 -start
25     #print(f'start = {start}')
26     if start != 0:
27         s1 = s[:start] + s[start+1:]
28     else:
29         s1 = s[start+1:]
30     #print(f's = {s}, s1 = {s1}')
31     #s1.pop(start)
32     if is_palindrome(s1) == -1:
33         return start
34     if start != 0:
35         s1 = s[:len(s)-1 -start] + s[len(s)-1 -start +1:]
36     else:
37         s1 = s[0:(len(s)-1 - start)]
38     #print(f's = {s}, s1 = {s[0:3]}')
39     #s1.pop(len(s)-1 -start)
40     if is_palindrome(s1) == -1:
41         return len(s) -1 -start
42     return -1
43
44
45

```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	✔ Success	0	0.0413 sec	9.18 KB
Testcase 2	Medium	Hidden case	✔ Success	5	0.0357 sec	9.51 KB
Testcase 3	Medium	Hidden case	✔ Success	5	0.0391 sec	9.33 KB
Testcase 4	Medium	Hidden case	✔ Success	5	0.0392 sec	9.48 KB
Testcase 5	Medium	Hidden case	✔ Success	5	0.052 sec	9.33 KB
Testcase 6	Medium	Hidden case	✔ Success	5	0.1444 sec	9.56 KB
Testcase 7	Medium	Hidden case	✔ Success	5	0.1007 sec	9.67 KB
Testcase 8	Medium	Hidden case	✔ Success	5	0.178 sec	9.6 KB
Testcase 9	Hard	Hidden case	✔ Success	10	0.0873 sec	9.85 KB
Testcase 10	Hard	Hidden case	✔ Success	10	0.1013 sec	9.75 KB
Testcase 11	Hard	Hidden case	✔ Success	10	0.1283 sec	9.63 KB
Testcase 12	Hard	Hidden case	✔ Success	10	0.0392 sec	9.47 KB
Testcase 13	Hard	Hidden case	✘ Wrong Answer	0	0.1047 sec	9.81 KB
Testcase 14	Hard	Hidden case	✘ Wrong Answer	0	0.106 sec	9.73 KB
Testcase 15	Hard	Hidden case	✔ Success	10	0.1563 sec	9.8 KB

No Comments

