



Full Name: Remi Chartier  
Email: remipr.chartier@gmail.com  
Test Name: **Mock Test**  
Taken On: 19 Oct 2021 05:20:16 IST  
Time Taken: 21 min 51 sec/ 22 min  
Contact Number: +14084751573  
Linkedin: http://www.linkedin.com/in/remichartier  
Invited by: Ankush  
Invited on: 19 Oct 2021 05:19:38 IST  
Skills Score:  
Tags Score:

Algorithms 0/105  
Core CS 0/105  
Easy 0/105  
Problem Solving 0/105  
Strings 0/105  
problem-solving 0/105

0%  
0/105

scored in **Mock Test** in 21 min  
51 sec on 19 Oct 2021 05:20:16  
IST

Recruiter/Team Comments:

No Comments.

	Question Description	Time Taken	Score	Status
Q1	<b>Palindrome Index</b> > Coding	20 min 15 sec	0/ 105	

QUESTION 1

Wrong Answer

Score 0

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

The candidate did not manually submit any code. The last compiled version has been auto-submitted and the score you see below is for the auto-submitted version.

Language used: **C++**

```
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  bool isPalindrome(string s) {
```

```

8 bool is_palindrome(string s){
9     int start(0), end(s.size()-1);
10    while(start < end){
11        if(s[start] != s[end]){
12            return false;
13        }
14        start++;
15        end--;
16    }
17    return true;
18 }
19
20 int palindromeIndex(string s) {
21     string s1;
22     if(is_palindrome(s)){
23         return -1;
24     }
25     for(size_t i=0; i<s.size(); ++i){
26         s1 = s;
27         s1.erase(i,i);
28         if(is_palindrome(s1)){
29             return i+1;
30         }
31     }
32     return -1;
33 }
34
35

```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	⊗ Wrong Answer	0	0.0177 sec	9.18 KB
Testcase 2	Medium	Hidden case	⊗ Wrong Answer	0	0.0177 sec	9.09 KB
Testcase 3	Medium	Hidden case	⊗ Wrong Answer	0	0.0144 sec	8.89 KB
Testcase 4	Medium	Hidden case	⊗ Wrong Answer	0	0.0161 sec	9.14 KB
Testcase 5	Medium	Hidden case	⊗ Wrong Answer	0	0.0214 sec	9.09 KB
Testcase 6	Medium	Hidden case	⊗ Wrong Answer	0	1.206 sec	9.04 KB
Testcase 7	Medium	Hidden case	⊗ Wrong Answer	0	1.0957 sec	8.98 KB
Testcase 8	Medium	Hidden case	⊗ Terminated due to timeout	0	2.0022 sec	8.69 KB
Testcase 9	Hard	Hidden case	⊗ Wrong Answer	0	1.1345 sec	9.19 KB
Testcase 10	Hard	Hidden case	⊗ Wrong Answer	0	0.8466 sec	9.07 KB
Testcase 11	Hard	Hidden case	⊗ Terminated due to timeout	0	2.0042 sec	8.6 KB
Testcase 12	Hard	Hidden case	⊗ Wrong Answer	0	0.0197 sec	8.92 KB
Testcase 13	Hard	Hidden case	⊗ Wrong Answer	0	1.0721 sec	9.14 KB
Testcase 14	Hard	Hidden case	⊗ Wrong Answer	0	0.8143 sec	9.13 KB
Testcase 15	Hard	Hidden case	⊗ Wrong Answer	0	1.7597 sec	9.09 KB

