



Full Name:

SYED MUSTAFA HASSAN

Email:

fa21bscs0030@maju.edu.pk

Test Name:

Mock Test

Taken On:

7 Jan 2023 16:05:43 IST

Time Taken:

7 min 15 sec/ 22 min

Linkedin:

https://www.linkedin.com/in/syed-mustafa-hassan-340263236/

Invited by:

Ankush

Invited on:

7 Jan 2023 16:05:32 IST

Skills Score:

Tags Score:

Algorithms

105/105

Core CS

105/105

Easy

105/105

Problem Solving

105/105

Strings

105/105

problem-solving

105/105

100%

105/105

scored in **Mock Test** in 7 min 15 sec on 7 Jan 2023 16:05:43 IST

Recruiter/Team Comments:

No Comments.

Plagiarism flagged

We have marked questions with suspected plagiarism below. Please review.

	Question Description	Time Taken	Score	Status
Q1	Palindrome Index > Coding	6 min 59 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

$s = \text{"bcbcb"}$

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: **C++14**

```
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
```

```

5  the function accepts string s as parameter.
6  */
7
8  int palindromeIndex(string s) {
9      int i=0,j =s.size()-1;
10     int ii=i, jj=j;
11     bool error = false;
12     if(s.size()>=3){
13         while(i<=j){
14             if(s[i]!=s[j]){
15                 if(error) return jj;
16                 error = true;
17                 ii = i;
18                 jj = j;
19                 i++;
20             }
21             else{
22                 i++, j--;
23             }
24         }
25     }
26     return error ? ii : -1;
27 }
28
29

```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	✔ Success	0	0.0232 sec	8.83 KB
Testcase 2	Medium	Hidden case	✔ Success	5	0.0294 sec	8.42 KB
Testcase 3	Medium	Hidden case	✔ Success	5	0.021 sec	8.8 KB
Testcase 4	Medium	Hidden case	✔ Success	5	0.0319 sec	8.79 KB
Testcase 5	Medium	Hidden case	✔ Success	5	0.0485 sec	8.82 KB
Testcase 6	Medium	Hidden case	✔ Success	5	0.0393 sec	9.01 KB
Testcase 7	Medium	Hidden case	✔ Success	5	0.0369 sec	8.95 KB
Testcase 8	Medium	Hidden case	✔ Success	5	0.0707 sec	9.12 KB
Testcase 9	Hard	Hidden case	✔ Success	10	0.0872 sec	8.95 KB
Testcase 10	Hard	Hidden case	✔ Success	10	0.0238 sec	9.12 KB
Testcase 11	Hard	Hidden case	✔ Success	10	0.052 sec	8.55 KB
Testcase 12	Hard	Hidden case	✔ Success	10	0.0483 sec	8.79 KB
Testcase 13	Hard	Hidden case	✔ Success	10	0.0253 sec	8.88 KB
Testcase 14	Hard	Hidden case	✔ Success	10	0.0232 sec	8.95 KB
Testcase 15	Hard	Hidden case	✔ Success	10	0.0368 sec	8.87 KB

No Comments