

Full Name:

Remi Chartier

Email:

remipr.chartier@gmail.com

Test Name:

**Mock Test** 

Taken On:

19 Oct 2021 11:47:34 IST

Time Taken:

10 min 47 sec/ 22 min

Contact Number:

+14084751573

Linkedin:

http://www.linkedin.com/in/remichartier

Invited by:

Ankush

Invited on:

19 Oct 2021 11:34:45 IST

Skills Score:

Tags Score:

Algorithms 65/105 Core CS 65/105

Easy 65/105

Problem Solving 65/105

Strings 65/105

problem-solving 65/105

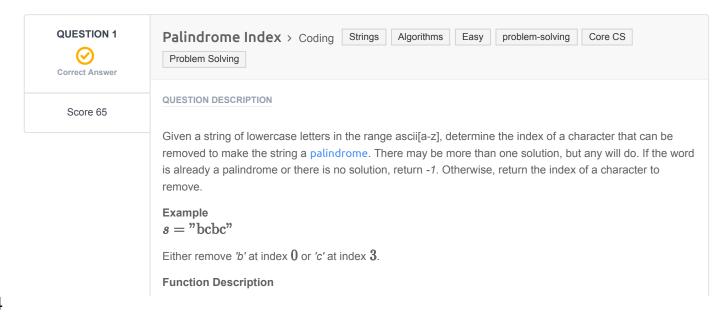
61.9% 65/105

scored in Mock Test in 10 min 47 sec on 19 Oct 2021 11:47:34

# **Recruiter/Team Comments:**

No Comments.

Question Description	Time Taken	Score	Status
Q1 Palindrome Index > Coding	10 min 33 sec	65/ 105	<b>⊘</b>



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  ${\it q}$ , the number of queries.

Each of the next  $oldsymbol{q}$  lines contains a query string  $oldsymbol{s}$ .

#### **Constraints**

- $1 \le q \le 20$
- $1 \le \text{length of } s \le 10^5 + 5$
- 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 b' results in a palindrome, so return b'.

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++

```
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 is_palindrome(string s) {
   int start(0), end(s.size()-1);
   while(start < end) {
      if(s[start] != s[end]) {
            return false;
      }
}</pre>
```

```
start++;
          end--;
     }
      return true;
18 }
20 int palindromeIndex(string s) {
    cout << "string s : " << s << endl;</pre>
     string s1;
     if(is_palindrome(s)){
          cout << "1st check palyndrome succeeded --> return -1" << endl;</pre>
          return -1;
     cout << "1st check palyndrome failed" << endl;</pre>
     for(size_t i=0; i<s.size(); ++i){
          s1 = s;
          s1.erase(i,1);
          if(is_palindrome(s1)){
              cout << s1 << " detected as palyndrome --> return " << i << endl;</pre>
              return i;
          }
     cout << "no palyndrome found even if removing any of the characters -->
37 return -1" << endl;
     return -1;
39 }
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	Success	0	0.0155 sec	8.95 KB
Testcase 2	Medium	Hidden case	Wrong Answer	0	0.03 sec	8.96 KB
Testcase 3	Medium	Hidden case	Success	5	0.0191 sec	8.95 KB
Testcase 4	Medium	Hidden case	Success	5	0.0141 sec	8.92 KB
Testcase 5	Medium	Hidden case	Success	5	0.0153 sec	8.96 KB
Testcase 6	Medium	Hidden case	Wrong Answer	0	1.5096 sec	9.12 KB
Testcase 7	Medium	Hidden case	Success	5	0.1921 sec	9.14 KB
Testcase 8	Medium	Hidden case	Success	5	1.4517 sec	9.17 KB
Testcase 9	Hard	Hidden case	Success	10	0.3019 sec	9.26 KB
Testcase 10	Hard	Hidden case	<b>⊘</b> Success	10	0.1191 sec	9.11 KB
Testcase 11	Hard	Hidden case	Success	10	0.9415 sec	9.18 KB
Testcase 12	Hard	Hidden case	<b>⊘</b> Success	10	0.017 sec	8.94 KB
Testcase 13	Hard	Hidden case		0	1.5636 sec	8.99 KB
Testcase 14	Hard	Hidden case		0	1.0748 sec	9.14 KB
Testcase 15	Hard	Hidden case	Terminated due to timeout	0	2.0034 sec	8.77 KB

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