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Test Name:

Mock Test

Taken On:

27 Oct 2021 07:05:08 IST

Time Taken:

Contact Number:

2 min 42 sec/ 22 min

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Invited by:

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Invited on:

27 Oct 2021 07:05:00 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

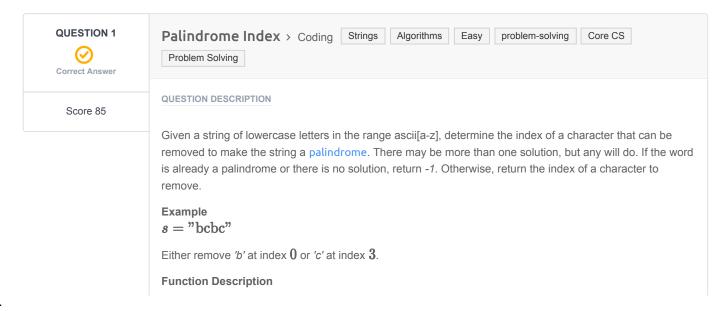
81% 85/105

scored in **Mock Test** in 2 min 42 sec on 27 Oct 2021 07:05:08 IST

Recruiter/Team Comments:

No Comments.

| | Question Description | Time Taken | Score | Status |
|----|---------------------------|--------------|---------|----------|
| Q1 | Palindrome Index > Coding | 2 min 33 sec | 85/ 105 | ⊘ |



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

- $1 \le q \le 20$
- $1 \le \text{length of } s \le 10^5 + 5$
- All characters are in the range ascii[a-z].

Sample Input

```
STDIN Function

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.

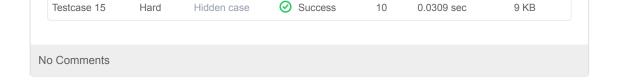
CANDIDATE ANSWER

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 #define IS_PALINDROME -1
9
10 int is_palindrome(string s){
   int start(0), end(s.size()-1);
   while(start <= end){</pre>
```

```
if(s[start] != s[end]){
              //cout << "return " << start << endl;
               return start;
          start++;
          end--;
       //cout << "return " << IS_PALINDROME << endl;</pre>
       return IS PALINDROME;
22 }
24 int palindromeIndex(string s) {
      string s1;
      int start;
     if(s.size() == 0) return -1;
      start = is palindrome(s);
     if(start == IS PALINDROME) {
          return -1;
       // otherwise, try to test by removing character pos start, or
      // character position (s.size() -1 - start)
      s1 = s;
      //cout << "s1 " << s1 << endl;
      s1.erase(s1.begin() + start);
      //cout << "check palindrome " << s1 << endl;</pre>
      if(is palindrome(s1) == IS PALINDROME){
           return start;
41
      s1 = s;
      //cout << "check palindrome " << s1 << endl;</pre>
      s1.erase(s1.begin() + s.size() -1 - start);
43
      //cout << "check palindrome " << s1 << endl;</pre>
44
      if(is palindrome(s1) == IS PALINDROME){
          return s.size() -1 - start;
       return -1;
49 }
```

| TESTCASE | DIFFICULTY | TYPE | STATUS | SCORE | TIME TAKEN | MEMORY USED |
|-------------|------------|-------------|--------------|-------|------------|-------------|
| Testcase 1 | Easy | Sample case | Success | 0 | 0.0159 sec | 9 KB |
| Testcase 2 | Medium | Hidden case | Success | 5 | 0.0157 sec | 8.85 KB |
| Testcase 3 | Medium | Hidden case | Success | 5 | 0.0156 sec | 9.08 KB |
| Testcase 4 | Medium | Hidden case | Success | 5 | 0.0204 sec | 8.95 KB |
| Testcase 5 | Medium | Hidden case | Success | 5 | 0.0211 sec | 8.95 KB |
| Testcase 6 | Medium | Hidden case | Success | 5 | 0.0234 sec | 9.09 KB |
| Testcase 7 | Medium | Hidden case | Success | 5 | 0.0313 sec | 9.07 KB |
| Testcase 8 | Medium | Hidden case | Success | 5 | 0.0286 sec | 9.08 KB |
| Testcase 9 | Hard | Hidden case | Success | 10 | 0.0244 sec | 8.96 KB |
| Testcase 10 | Hard | Hidden case | Success | 10 | 0.0296 sec | 9.07 KB |
| Testcase 11 | Hard | Hidden case | Success | 10 | 0.0188 sec | 9.29 KB |
| Testcase 12 | Hard | Hidden case | Success | 10 | 0.0309 sec | 8.95 KB |
| Testcase 13 | Hard | Hidden case | Wrong Answer | 0 | 0.024 sec | 8.93 KB |
| Testcase 14 | Hard | Hidden case | Wrong Answer | 0 | 0.0231 sec | 9.06 KB |
| | | | | | | |



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