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Test Name: **Mock Test** 

Taken On: 27 Oct 2021 10:47:13 IST

0 min 27 sec/ 22 min Time Taken:

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27 Oct 2021 10:47:07 IST Invited on:

Skills Score:

Algorithms 85/105 Tags Score:

> Core CS 85/105 Easy 85/105

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Problem Solving 85/105

Strings 85/105

problem-solving 85/105

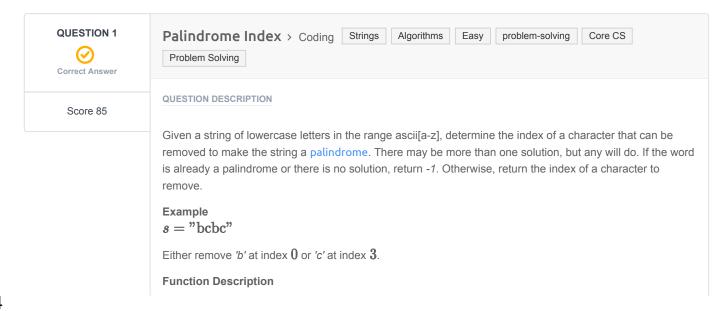
81% 85/105

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

#### **Recruiter/Team Comments:**

No Comments.





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

-----

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: 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.</pre>
```

```
start +=1
     return -1
16 def palindromeIndex(s):
      # Write your code here
      if len(s) == 0:
         return -1
     start = is_palindrome(s)
     if start == -1:
          return -1
     # otherwise, test by removing char at position start
     # and removing char at position len(s) -1 -start
24
      #print(f'start = {start}')
     if start != 0:
         s1 = s[:start] + s[start+1:]
      else:
       s1 = s[start+1:]
     #print(f's = {s}, s1 = {s1}')
     #s1.pop(start)
      if is_palindrome(s1) == -1:
          return start
     if start != 0:
         s1 = s[:len(s)-1 - start] + s[len(s)-1 - start +1:]
     else:
      s1 = s[0:(len(s)-1 - start)]
     #print(f's = {s}, s1 = {s[0:3]}')
      #s1.pop(len(s)-1 -start)
      if is palindrome(s1) == -1:
41
         return len(s) -1 -start
      return -1
43
44
```

| 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