

Mock Test > alireza.aali@gmail.com



Full Name:

Alireza Ali

Email:

alireza.aali@gmail.com

Test Name:

**Mock Test** 

Taken On:

18 Nov 2021 11:26:09 IST

Time Taken:

20 min 37 sec/ 22 min

Invited by:

Ankush

Invited on:

18 Nov 2021 11:26:02 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 20 min 37 sec on 18 Nov 2021 11:26:09 IST

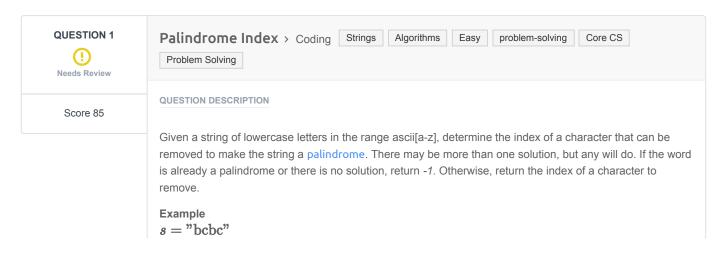
## **Recruiter/Team Comments:**

No Comments.

## Plagiarism flagged

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

Question Description	Time Taken	Score	Status
Q1 Palindrome Index > Coding	20 min 27 sec	85/ 105	(!)



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  $\emph{\textbf{q}}$ , 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' are sults in a palindrome, so return b'.

Query 2: "baa"

Removing b' at index b' results in a palindrome, so return b'.

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 class Result
2 {
3
4    /*
5     * Complete the 'palindromeIndex' function below.
6     *
7     * The function is expected to return an INTEGER.
8     * The function accepts STRING s as parameter.
```

```
*/
       public static int palindromeIndex(string s)
           for (int i = 0, j = s.Length-1; i < j; i++, j--) {
         if (s[i] != s[j]) {
              if (isPalindrome(s, i+1, j))
                  return i;
              if (isPalindrome(s, i, j-1))
                  return j;
             return -1;
         }
24
      return -1;
     public static bool isPalindrome(string s, int start, int end) {
       for (int i = start, j = end; i < j; i++, j--) {
          if (s[i] != s[j])
              return false;
       }
      return true;
34 }
35 }
```

DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Easy	Sample case	Success	0	0.0582 sec	17.9 KB
Medium	Hidden case	Success	5	0.0558 sec	17.9 KB
Medium	Hidden case	Success	5	0.0561 sec	17.9 KB
Medium	Hidden case	Success	5	0.0637 sec	17.9 KB
Medium	Hidden case	Success	5	0.0618 sec	17.8 KB
Medium	Hidden case	Success	5	0.0767 sec	18.1 KB
Medium	Hidden case	Success	5	0.0612 sec	18.1 KB
Medium	Hidden case	Success	5	0.0825 sec	18.9 KB
Hard	Hidden case	Success	10	0.0805 sec	17.9 KB
Hard	Hidden case	Success	10	0.0591 sec	18.2 KB
Hard	Hidden case	Success	10	0.0953 sec	18.6 KB
Hard	Hidden case	Success	10	0.0583 sec	18.2 KB
Hard	Hidden case	⊗ Wrong Answer	0	0.0682 sec	18.3 KB
Hard	Hidden case	⊗ Wrong Answer	0	0.0824 sec	18.3 KB
Hard	Hidden case	Success	10	0.0747 sec	18.5 KB
	Easy Medium Medium Medium Medium Medium Medium Medium Hard Hard Hard Hard	Easy Sample case  Medium Hidden case  Hard Hidden case	Easy Sample case Success  Medium Hidden case Success  Hard Hidden case Success  Wrong Answer	Easy Sample case Success 0  Medium Hidden case Success 5  Medium Hidden case Success 10  Hard Hidden case Success 10	Easy Sample case   Success   0  0.0582 sec  Medium Hidden case   Success   5  0.0558 sec  Medium Hidden case   Success   5  0.0561 sec  Medium Hidden case   Success   5  0.0637 sec  Medium Hidden case   Success   5  0.0618 sec  Medium Hidden case   Success   5  0.0767 sec  Medium Hidden case   Success   5  0.0767 sec  Medium Hidden case   Success   5  0.0612 sec  Medium Hidden case   Success   5  0.0825 sec  Hard Hidden case   Success   10  0.0805 sec  Hard Hidden case   Success   10  0.0591 sec  Hard Hidden case   Success   10  0.0593 sec  Hard Hidden case   Success   10  0.0583 sec  Hard Hidden case   Success   10  0.0682 sec  Hard Hidden case   Success   10  0.0682 sec

No Comments