

## Mock Test > joelvarghese356@gmail.com

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Test Name: Mock Test

**Taken On:** 28 Mar 2024 13:17:22 IST

Time Taken: 18 min 29 sec/ 22 min

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Invited by: Ankush

Invited on: 28 Mar 2024 13:16:51 IST

Skills Score:

Tags Score: Algorithms 105/105

Core CS 105/105

Easy 105/105

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Problem Solving 105/105

Strings 105/105

problem-solving 105/105

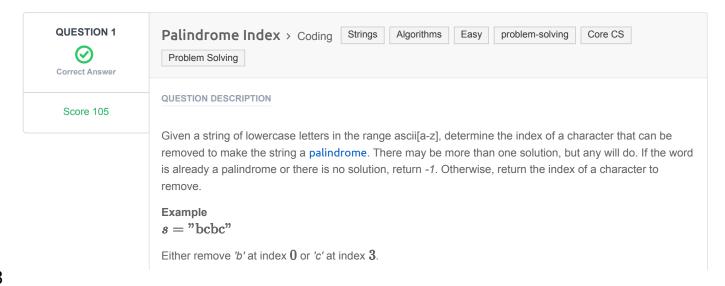


scored in **Mock Test** in 18 min 29 sec on 28 Mar 2024 13:17:22 IST

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

No Comments.

	Question Description	Time Taken	Score	Status
Q1	Palindrome Index > Coding	18 min 13 sec	105/ 105	$\odot$



#### **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' 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: PyPy3

```
1
2 #
3 # Complete the 'palindromeIndex' function below.
4 #
5 # The function is expected to return an INTEGER.
6 # The function accepts STRING s as parameter.
7 #
8 def ispalindrome(s):
9    return s == s[::-1]
10
11 def palindromeIndex(s):
12 # Write your code here
```

```
if ispalindrome(s):
    return -1
for i in range(len(s)//2):
    if s[i] != s[len(s) - 1 - i]:
        return i if ispalindrome(s[:i] + s[i + 1:]) else len(s) - 1 - i
return -1
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	Success	0	0.275 sec	71.4 KB
Testcase 2	Medium	Hidden case	Success	5	0.2822 sec	71.6 KB
Testcase 3	Medium	Hidden case	Success	5	0.2431 sec	72.2 KB
Testcase 4	Medium	Hidden case	Success	5	0.2525 sec	71.4 KB
Testcase 5	Medium	Hidden case	Success	5	0.3187 sec	71.6 KB
Testcase 6	Medium	Hidden case	Success	5	0.29 sec	73.8 KB
Testcase 7	Medium	Hidden case	Success	5	0.3086 sec	73.5 KB
Testcase 8	Medium	Hidden case	Success	5	0.3067 sec	75.8 KB
Testcase 9	Hard	Hidden case	Success	10	0.2939 sec	73.3 KB
Testcase 10	Hard	Hidden case	Success	10	0.2831 sec	73.2 KB
Testcase 11	Hard	Hidden case	Success	10	0.2973 sec	74.6 KB
Testcase 12	Hard	Hidden case	Success	10	0.2621 sec	72.1 KB
Testcase 13	Hard	Hidden case	Success	10	0.2638 sec	73 KB
Testcase 14	Hard	Hidden case	Success	10	0.2583 sec	73 KB
Testcase 15	Hard	Hidden case	Success	10	0.2884 sec	73.9 KB

No Comments

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