

## Mock Test > jared.king@yale.edu

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Test Name: Mock Test

**Taken On:** 1 Jan 2023 02:31:16 IST

Time Taken: 4 min 5 sec/ 22 min

Invited by: Ankush

Invited on: 1 Jan 2023 01:44:53 IST

Skills Score:

 Tags Score:
 Algorithms
 105/105

 Core CS
 105/105

Easy 105/105

Problem Solving 105/105

Strings 105/105

problem-solving 105/105

100% 105/105

scored in **Mock Test** in 4 min 5 sec on 1 Jan 2023 02:31:16 IST

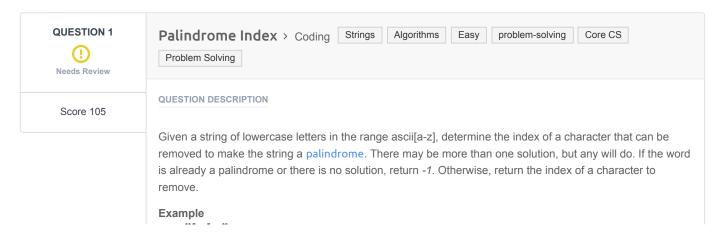
### **Recruiter/Team Comments:**

No Comments.

## Plagiarism flagged

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





s = "bcbc"

Either remove b' at index b' or b' at index b'.

# **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  $\boldsymbol{q}$ , 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 3 results in a palindrome, so return 3.

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 palindromeIndex(s):
9
     # check if string is palindrome
     if s == s[::-1]:
          return -1
     n = len(s)
14
      # main logic
      for i in range (n//2):
          # check if first and last are different
          if s[i] != s[n-1-i]:
              if s[i+1:n-i] == s[i+1:n-i][::-1]:
                 return i
              elif s[i:n-1-i] == s[i:n-1-i][::-1]:
                 return n-1-i
      return -1
24
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	Success	0	0.0854 sec	9.34 KB
Testcase 2	Medium	Hidden case	Success	5	0.1038 sec	9.37 KB
Testcase 3	Medium	Hidden case	Success	5	0.0869 sec	9.32 KB
Testcase 4	Medium	Hidden case	Success	5	0.0642 sec	9.2 KB
Testcase 5	Medium	Hidden case	Success	5	0.0715 sec	9.45 KB
Testcase 6	Medium	Hidden case	Success	5	0.1077 sec	9.54 KB
Testcase 7	Medium	Hidden case	Success	5	0.0899 sec	9.6 KB
Testcase 8	Medium	Hidden case	Success	5	0.0977 sec	9.61 KB
Testcase 9	Hard	Hidden case	Success	10	0.0748 sec	9.71 KB
Testcase 10	Hard	Hidden case	Success	10	0.0702 sec	9.69 KB
Testcase 11	Hard	Hidden case	Success	10	0.091 sec	9.57 KB
Testcase 12	Hard	Hidden case	Success	10	0.0911 sec	9.31 KB
Testcase 13	Hard	Hidden case	Success	10	0.1229 sec	9.52 KB
Testcase 14	Hard	Hidden case	Success	10	0.0486 sec	9.57 KB
Testcase 15	Hard	Hidden case	Success	10	0.072 sec	9.61 KB

No Comments

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