

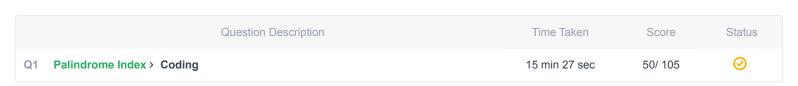
Mock Test > alice20190101@163.com

Full Name: wang yang Email: alice20190101@163.com Test Name: **Mock Test** Taken On: 5 Oct 2024 15:00:33 IST Time Taken: 21 min 53 sec/ 22 min Invited by: Ankush 5 Oct 2024 15:00:24 IST Invited on: Skills Score: Tags Score: Algorithms 50/105 Core CS 50/105 Easy 50/105 Problem Solving 50/105 Strings 50/105

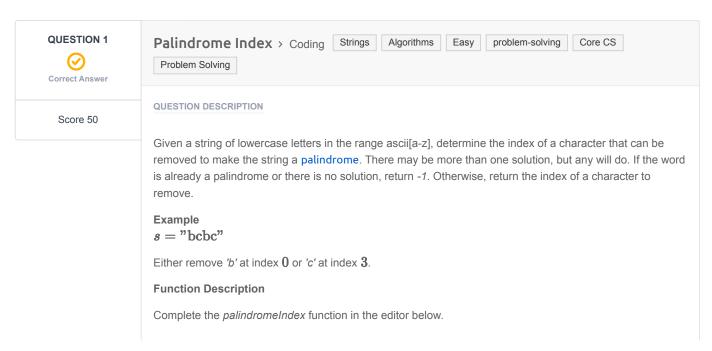
scored in **Mock Test** in 21 min 53 sec on 5 Oct 2024 15:00:33 IST

Recruiter/Team Comments:

No Comments.



problem-solving 50/105



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 \boldsymbol{q} lines contains a query string \boldsymbol{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

The candidate did not manually submit any code. The last compiled version has been auto-submitted and the score you see below is for the auto-submitted version.

Language used: Java 8

```
class Result {

/*

* Complete the 'palindromeIndex' function below.

* * The function is expected to return an INTEGER.

* The function accepts STRING s as parameter.

*/

public static int palindromeIndex(String s) {
```

```
System.out.println(s);
           String ss=new StringBuilder(s).reverse().toString();
          if(ss.equals(s)){
               return -1;
          }else{
               //consider remove which char to make it as palindrome, only 1 bit
               String newStr;
               for(int i=0; i<s.length(); i++) {</pre>
                   newStr = s.substring(0, i)+s.substring(i+1, s.length());
                  ss = new StringBuilder(newStr).reverse().toString();
                   if(ss.equals(newStr)){
                       return i;
24
                   }
               }
           return -1;
      }
30 }
```

| TESTCASE [| DIFFICULTY | TYPE | STATUS | SCORE | TIME TAKEN | MEMORY USED |
|----------------|------------|-------------|-----------------------------|-------|---------------|----------------|
| Testcase 1 | Easy | Sample case | Success | 0 | 0.1149 sec | 31.7 KB |
| Testcase 2 | Medium | Hidden case | Wrong Answer | 0 | 0.1115 sec | 31.9 KB |
| Testcase 3 | Medium | Hidden case | Success | 5 | 0.1131 sec | 31.9 KB |
| Testcase 4 | Medium | Hidden case | Success | 5 | 0.1196 sec | 31.8 KB |
| Testcase 5 | Medium | Hidden case | Success | 5 | 0.1001 sec | 31.5 KB |
| Testcase 6 | Medium | Hidden case | X Terminated due to timeout | 0 | 4.0366 sec | 201 KB |
| Testcase 7 | Medium | Hidden case | Success | 5 | 2.3932 sec | 202 KB |
| Testcase 8 | Medium | Hidden case | Terminated due to timeout | 0 | 4.029 sec | 203 KB |
| Testcase 9 | Hard | Hidden case | Success | 10 | 3.0396 sec | 202 KB |
| Testcase 10 | Hard | Hidden case | Success | 10 | 1.4426 sec | 202 KB |
| Testcase 11 | Hard | Hidden case | Terminated due to timeout | 0 | 4.0358 sec | 201 KB |
| Testcase 12 | Hard | Hidden case | Success | 10 | 0.1038 sec | 31.8 KB |
| Testcase 13 | Hard | Hidden case | Terminated due to timeout | 0 | 4.0291 sec | 202 KB |
| Testcase 14 | Hard | Hidden case | Terminated due to timeout | 0 | 4.031 sec | 201 KB |
| Testcase 15 | Hard | Hidden case | Terminated due to timeout | 0 | 4.0302 sec | 201 KB |
| Comments | | | | | | |

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