

Mock Test > doliatius@protonmail.com

Full Name: Doli Email: doliatius@protonmail.com Test Name: **Mock Test** Taken On: 21 Jan 2024 21:19:16 IST Time Taken: 11 min 37 sec/ 30 min Linkedin: https://www.linkedin.com/in/musab-oguz-68990a200/ Invited by: Ankush Invited on: 21 Jan 2024 21:19:07 IST Skills Score: Tags Score: Algorithms 105/105 Core CS 105/105

Easy 105/105

Strings 105/105

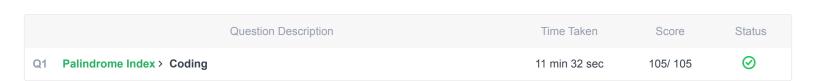
Problem Solving 105/105

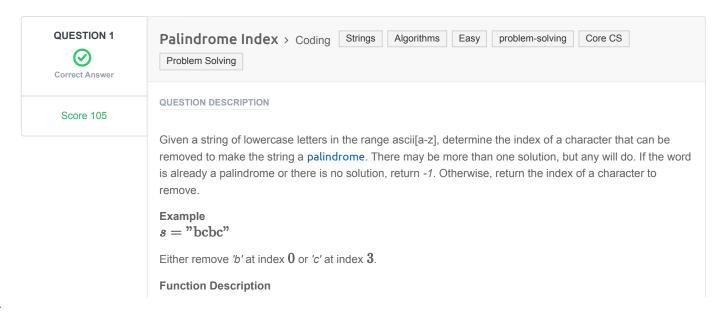
problem-solving 105/105

scored in **Mock Test** in 11 min 37 sec on 21 Jan 2024 21:19:16 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 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: C++14

```
/*
    * Complete the 'palindromeIndex' function below.

* * The function is expected to return an INTEGER.

* The function accepts STRING s as parameter.

*/

void firstSecond(string &first, string &second, string &s) {
    string temp = s;
    if (s.size() % 2 == 1) {
        temp.erase(temp.begin() + (temp.size()/2));
    }

first = temp.substr(0, temp.size() / 2);
```

```
14
       second = temp.substr(temp.size() / 2, temp.size() / 2);
       reverse(second.begin(), second.end());
16 }
18 int palindromeIndex(string s) {
       unsigned int ret = -1;
       bool is_palin = false;
      string first;
       string second;
       firstSecond(first, second, s);
      if (first==second) {
          return -1;
       for (unsigned int i = 0; i < first.size(); i++){</pre>
          if (first[i] != second[i]) {
              string tempfirst;
               string tempsecond;
               string tempS = s;
34
               tempS.erase(tempS.begin() + i);
               firstSecond(tempfirst, tempsecond, tempS);
               if (tempfirst == tempsecond) {
                   ret = i;
41
               }
               else{
43
                   ret = s.size()-1-i;
               break;
           }
47
49
       return ret;
50 }
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	Success	0	0.0054 sec	8.81 KB
Testcase 2	Medium	Hidden case	Success	5	0.0531 sec	8.82 KB
Testcase 3	Medium	Hidden case	Success	5	0.0054 sec	8.78 KB
Testcase 4	Medium	Hidden case	Success	5	0.006 sec	8.82 KB
Testcase 5	Medium	Hidden case	Success	5	0.0064 sec	8.82 KB
Testcase 6	Medium	Hidden case	Success	5	0.0124 sec	8.91 KB
Testcase 7	Medium	Hidden case	Success	5	0.011 sec	8.95 KB
Testcase 8	Medium	Hidden case	Success	5	0.0567 sec	8.97 KB
Testcase 9	Hard	Hidden case	Success	10	0.017 sec	8.99 KB
Testcase 10	Hard	Hidden case	Success	10	0.0113 sec	9.07 KB
Testcase 11	Hard	Hidden case	Success	10	0.0987 sec	8.83 KB
Testcase 12	Hard	Hidden case	Success	10	0.0084 sec	8.88 KB
Testcase 13	Hard	Hidden case	Success	10	0.0105 sec	8.95 KB
Testcase 14	Hard	Hidden case	Success	10	0.0132 sec	9 KB
Testcase 15	Hard	Hidden case	Success	10	0.0138 sec	8.8 KB

No Comments

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