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Test Name: Mock Test

Taken On: 17 Jun 2022 19:06:52 IST

Time Taken: 29 min 51 sec/ 30 min

Invited by: Ankush

Invited on: 17 Jun 2022 19:06:44 IST

Skills Score:

Tags Score:

- Algorithms 45/105
- Core CS 45/105
- Easy 45/105
- Problem Solving 45/105
- Strings 45/105
- problem-solving 45/105

42.9%

45/105

scored in **Mock Test** in 29 min  
51 sec on 17 Jun 2022 19:06:52  
IST

Recruiter/Team Comments:

No Comments.

	Question Description	Time Taken	Score	Status
Q1	Palindrome Index > Coding	30 min 10 sec	45/ 105	✓

QUESTION 1

✓

Correct Answer

Score 45

Palindrome Index > Coding

Strings

Algorithms

Easy

problem-solving

Core CS

Problem Solving

QUESTION DESCRIPTION

Given a string of lowercase letters in the range `ascii[a-z]`, determine the index of a character that can be removed to make the string a **palindrome**. There may be more than one solution, but any will do. If the word is already a palindrome or there is no solution, return `-1`. Otherwise, return the index of a character to remove.

**Example**  
`s = "bcbc"`

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 **q**, the number of queries.

Each of the next **q** lines contains a query string **s**.

#### Constraints

- $1 \leq q \leq 20$
- $1 \leq \text{length of } s \leq 10^5 + 5$
- 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**

```
1 class Result {
2
3     /*
4      * Complete the 'palindromeIndex' function below.
5      *
6      * The function is expected to return an INTEGER.
7      * The function accepts STRING s as parameter.
8      */
9
10    }
```

```

10 public static int palindromeIndex(String s) {
11     System.out.println(s);
12     int result = -1;
13
14     StringBuilder order = new StringBuilder(s);
15     StringBuilder reverse = new StringBuilder(s);
16     reverse.reverse();
17
18     if(order.toString().equals(reverse.toString())){
19         return -1;
20     }
21
22     while(true){
23         result++;
24         order = new StringBuilder(s);
25         order.delete(result, result+1);
26         reverse = new StringBuilder(order);
27         reverse.reverse();
28         if(order.toString().equals(reverse.toString())){
29             return result;
30         }
31         int last = s.length() - 1 - result;
32         order = new StringBuilder(s);
33         order.delete(last, last+1);
34         reverse = new StringBuilder(order);
35         reverse.reverse();
36         if(order.toString().equals(reverse.toString())){
37             return last;
38         }
39     }
40 }
41
42
43 }
44
45

```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	✔ Success	0	0.1416 sec	29.3 KB
Testcase 2	Medium	Hidden case	✘ Wrong Answer	0	0.1835 sec	29.9 KB
Testcase 3	Medium	Hidden case	✔ Success	5	0.1367 sec	29.8 KB
Testcase 4	Medium	Hidden case	✔ Success	5	0.1726 sec	29.4 KB
Testcase 5	Medium	Hidden case	✔ Success	5	0.1986 sec	29.8 KB
Testcase 6	Medium	Hidden case	✘ Terminated due to timeout	0	4.043 sec	199 KB
Testcase 7	Medium	Hidden case	✘ Terminated due to timeout	0	4.0602 sec	200 KB
Testcase 8	Medium	Hidden case	✘ Terminated due to timeout	0	4.0161 sec	201 KB
Testcase 9	Hard	Hidden case	✘ Terminated due to timeout	0	4.057 sec	201 KB
Testcase 10	Hard	Hidden case	✔ Success	10	3.5582 sec	201 KB
Testcase 11	Hard	Hidden case	✘ Terminated due to timeout	0	4.0593 sec	200 KB

Testcase 12	Hard	Hidden case	✔ Success	10	0.1861 sec	29.1 KB
Testcase 13	Hard	Hidden case	✘ Terminated due to timeout	0	4.0267 sec	202 KB
Testcase 14	Hard	Hidden case	✔ Success	10	3.4431 sec	201 KB
Testcase 15	Hard	Hidden case	✘ Terminated due to timeout	0	4.0102 sec	200 KB

No Comments

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