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Test Name: Mock Test

Taken On: 5 Oct 2024 15:00:33 IST

Time Taken: 21 min 53 sec/ 22 min

Invited by: Ankush

Invited on: 5 Oct 2024 15:00:24 IST

Skills Score:

Tags Score:

- Algorithms 50/105
- Core CS 50/105
- Easy 50/105
- Problem Solving 50/105
- Strings 50/105
- problem-solving 50/105

47.6%

50/105

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

Recruiter/Team Comments:

No Comments.

	Question Description	Time Taken	Score	Status
Q1	Palindrome Index > Coding	15 min 27 sec	50/ 105	✓

QUESTION 1

✓

Correct Answer

Score 50

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
2 class Result {
3
4     /*
5      * Complete the 'palindromeIndex' function below.
6      *
7      * The function is expected to return an INTEGER.
8      * The function accepts STRING s as parameter.
9      */
10
11     public static int palindromeIndex(String s) {
```

```

12 System.out.println(s);
13 String ss=new StringBuilder(s).reverse().toString();
14 if(ss.equals(s)){
15     return -1;
16 }else{
17     //consider remove which char to make it as palindrome,only 1 bit
18     String newStr;
19     for(int i=0; i<s.length(); i++){
20         newStr = s.substring(0, i)+s.substring(i+1, s.length());
21         ss = new StringBuilder(newStr).reverse().toString();
22         if(ss.equals(newStr)){
23             return i;
24         }
25     }
26 }
27 return -1;
28 }
29
30 }
31

```

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	✘ 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

No Comments