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Test Name: Mock Test

Taken On: 28 May 2022 10:00:14 IST

Time Taken: 12 min 41 sec/ 22 min

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Invited on: 28 May 2022 10:00:09 IST

Skills Score:

Tags Score:

- Algorithms75/105
- Core CS75/105
- Easy75/105
- Problem Solving75/105
- Strings75/105
- problem-solving75/105

71.4%

75/105

scored in Mock Test in 12 min 41 sec on 28 May 2022 10:00:14 IST

Recruiter/Team Comments:

No Comments.

	Question Description	Time Taken	Score	Status
Q1	Palindrome Index > Coding	12 min 34 sec	75/ 105	

QUESTION 1

Correct Answer

Score 75

Palindrome Index > Coding

StringsAlgorithmsEasyproblem-solvingCore 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

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     # Write your code here
10    n = len(s)
11    s1 = ''
12    if s == s[::-1]:
```

```

13         return -1
14     else:
15         s1 = s
16         for r in range(n):
17             s1 = s1[:r] + ' ' + s1[r+1:]
18             if s1 == s1[::-1]:
19                 break
20             elif r == n-1:
21                 r = - 1
22                 break
23         s1 = s
24     return r
25
26

```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	✔ Success	0	0.1343 sec	9.38 KB
Testcase 2	Medium	Hidden case	✘ Wrong Answer	0	0.0576 sec	9.39 KB
Testcase 3	Medium	Hidden case	✔ Success	5	0.0409 sec	9.38 KB
Testcase 4	Medium	Hidden case	✔ Success	5	0.123 sec	9.46 KB
Testcase 5	Medium	Hidden case	✔ Success	5	0.0736 sec	9.46 KB
Testcase 6	Medium	Hidden case	✘ Wrong Answer	0	5.7089 sec	9.79 KB
Testcase 7	Medium	Hidden case	✔ Success	5	0.9209 sec	9.84 KB
Testcase 8	Medium	Hidden case	✔ Success	5	5.2901 sec	9.82 KB
Testcase 9	Hard	Hidden case	✔ Success	10	1.3571 sec	9.92 KB
Testcase 10	Hard	Hidden case	✔ Success	10	0.9521 sec	9.75 KB
Testcase 11	Hard	Hidden case	✔ Success	10	6.6696 sec	9.82 KB
Testcase 12	Hard	Hidden case	✔ Success	10	0.1333 sec	9.38 KB
Testcase 13	Hard	Hidden case	✘ Terminated due to timeout	0	10.007 sec	9.87 KB
Testcase 14	Hard	Hidden case	✔ Success	10	6.3965 sec	9.73 KB
Testcase 15	Hard	Hidden case	✘ Terminated due to timeout	0	10.0035 sec	9.77 KB

No Comments