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Test Name:	**Mock Test**
Taken On:	18 Nov 2021 11:26:09 IST
Time Taken:	20 min 37 sec/ 22 min
Invited by:	Ankush
Invited on:	18 Nov 2021 11:26:02 IST
Skills Score:	
Tags Score:	Algorithms 85/105 Core CS 85/105 Easy 85/105 Problem Solving 85/105 Strings 85/105 problem-solving 85/105

81%

85/105

scored in **Mock Test** in 20 min 37 sec on 18 Nov 2021 11:26:09 IST

Recruiter/Team Comments:

No Comments.

Plagiarism flagged

We have marked questions with suspected plagiarism below. Please review.

	Question Description	Time Taken	Score	Status
Q1	Palindrome Index > **Coding**	20 min 27 sec	85/ 105	!

QUESTION 1

Needs Review

Score 85

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

$s = \text{"bcbc"}$

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: **C#**

```
1  class Result
2  {
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      {
13           for (int i = 0, j = s.Length-1; i < j; i++, j--) {
14          if (s[i] != s[j]) {
15              if (isPalindrome(s, i+1, j))
16                  return i;
17
18              if (isPalindrome(s, i, j-1))
19                  return j;
20
21              return -1;
22          }
23      }
24
25      return -1;
26
27      }
28      public static bool isPalindrome(string s, int start, int end) {
29      for (int i = start, j = end; i < j; i++, j--) {
30          if (s[i] != s[j])
31              return false;
32      }
33      return true;
34  }
35  }
36
37
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	Success	0	0.0582 sec	17.9 KB
Testcase 2	Medium	Hidden case	Success	5	0.0558 sec	17.9 KB
Testcase 3	Medium	Hidden case	Success	5	0.0561 sec	17.9 KB
Testcase 4	Medium	Hidden case	Success	5	0.0637 sec	17.9 KB
Testcase 5	Medium	Hidden case	Success	5	0.0618 sec	17.8 KB
Testcase 6	Medium	Hidden case	Success	5	0.0767 sec	18.1 KB
Testcase 7	Medium	Hidden case	Success	5	0.0612 sec	18.1 KB
Testcase 8	Medium	Hidden case	Success	5	0.0825 sec	18.9 KB
Testcase 9	Hard	Hidden case	Success	10	0.0805 sec	17.9 KB
Testcase 10	Hard	Hidden case	Success	10	0.0591 sec	18.2 KB
Testcase 11	Hard	Hidden case	Success	10	0.0953 sec	18.6 KB
Testcase 12	Hard	Hidden case	Success	10	0.0583 sec	18.2 KB
Testcase 13	Hard	Hidden case	Wrong Answer	0	0.0682 sec	18.3 KB
Testcase 14	Hard	Hidden case	Wrong Answer	0	0.0824 sec	18.3 KB
Testcase 15	Hard	Hidden case	Success	10	0.0747 sec	18.5 KB

No Comments