

Palindrome Index



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Given a string, S, of lowercase letters, determine the index of the character whose removal will make S a palindrome. If S is already a palindrome or no such character exists, then print -1. There will always be a valid solution, and any correct answer is acceptable. For example, if S = "bcbc", we can either remove 'b' at index 0 or 'c' at index 3.

Input Format

The first line contains an integer, T, denoting the number of test cases. Each line i of the T subsequent lines (where $0 \le i < T$) describes a test case in the form of a single string, S_i .

Constraints

- $1 \le T \le 20$
- $1 \le |S| \le 10^5 + 5$
- All characters are lowercase English letters.

Output Format

Print an integer denoting the *zero-indexed* position of the character that makes S not a palindrome; if S is already a palindrome or no such character exists, print -1.

Sample Input

3 aaab baa

Sample Output

3 0 -1

Explanation

Test Case 1: "aaab"

Removing 'b' at index 3 results in a palindrome, so we print 3 on a new line.

Test Case 2: "baa

Removing b' at index b' results in a palindrome, so we print b' on a new line.

Test Case 3: "aaa"

This string is already a palindrome, so we print -1; however, 0, 1, and 2 are also all acceptable answers, as the string will still be a palindrome if any one of the characters at those indices are removed.

Note: The custom checker logic for this challenge is available here.





Solved score: 25.00pts Submissions: 27517

Max Score: 25 Difficulty: Easy

Rata Thic Challanna



More

```
C#
 Current Buffer (saved locally, editable) \ \mathscr{V} \ \mathfrak{O}
                                                                                                                     *
    using System;
    using System.Collections.Generic;
2
3
    using System.IO;
4
    class Solution {
       static void Main(string[] args)
5
6
7
                 int t = int.Parse(Console.ReadLine());
8
10
                 while (t-- > 0)
11
12
                      string s = Console.ReadLine();
                      int izq = 0, der = s.Length - 1;
13
14
15
                      while (izq < der)</pre>
16 ▼
17
                          if (s[izq] != s[der])
18
19
                              break;
20
21
                          izq++;
22
                          der--;
23
24
25
                      string s_copia = s;
26
                      s_copia = s_copia.Remove(izq, 1);
27
                      char[] rev_s_copia = s_copia.ToCharArray();
28
                      Array.Reverse(rev_s_copia);
29
30
                      if (s_copia == new string(rev_s_copia))
31
32
                          Console.WriteLine(izq);
33
34
                      else
35
                          Console.WriteLine(der);
36
37
38
39
                 }
40
41
42
                 Console.ReadLine();
43
44
                                                                                                           Line: 31 Col: 18
```

<u>Upload Code as File</u> Test against custom input

Run Code

Submit Code

Congrats, you solved this challenge! ✓ Test Case #0 ✓ Test Case #1 ✓ Test Case #2 ✓ Test Case #3 ✓ Test Case #4 ✓ Test Case #5 ✓ Test Case #6 ✓ Test Case #7 ✓ Test Case #8 ✓ Test Case #9 ✓ Test Case #10 ✓ Test Case #11 ✓ Test Case #13 ✓ Test Case #12 ✓ Test Case #14 Next Challenge

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