15/11/2017 HackerRank



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 S0 or 'c' at index S3.

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 aaa

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 $\mathbf{0}$ results in a palindrome, so we print $\mathbf{0}$ 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.

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f ⊮ in Solved score: 25.00pts Submissions:35375 Max Score:25 Difficulty: Easy Rate This Challenge: \triangle \triangle \triangle \triangle \triangle Need Help? **Palindrome** More Current Buffer (saved locally, editable) & 49 Java 7 Ö 1 ▼ import java.io.*; import java.util.*; 3 import java.text.*; 4 import java.math.*; import java.util.regex.*; 6 7 ▼ public class Solution { 8 9 ▼ static int palindromeIndex(String s){ 10 // Complete this function 11 12 public static void main(String[] args) { 13 🔻 Scanner in = new Scanner(System.in); 14 15 int q = in.nextInt(); for(int a0 = 0; a0 < q; a0++){ 16 ▼ 17 String s = in.next(); 18 int result = palindromeIndex(s); 19 System.out.println(result); 20 21 } 22 } 23 Line: 1 Col: 1 Test against custom input Run Code Submit Code **Upload Code as File**

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