Accenture Coding Round 2024 Batch Practice Problems

Part-3

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Instructions :-

- Program should take input from standard input and print output to standard output.
- Your code is judged by an automated system, do not write any additional welcome/greeting messages.

"Save and Test" only checks for basic test cases, more rigorous cases will be used to judge your code while scoring.

- Additional score will be given for writing optimized code both in terms of memory and execution time

⇒ Level Rating

L-1 : Problem-1 level (Easy)

L-2 : Problem-2 level (Med./Hard)

Prob-1 (Level - L2)

→ Is Palindrome ?

I/p => "shaurya"

O/p => "false"

I/p => "naman"

O/p => "true"

Sol^n

str = "naman"

0	1	2	3	4
n	a	m	a	n

i = 0

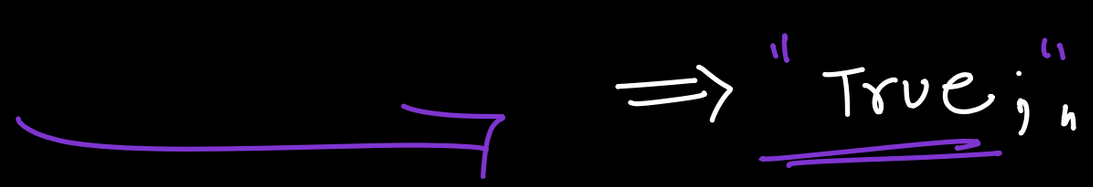
j = n-1

Condition while(i<j)

i=0 ↓ n-1 [if(str[i] != str[j]) False, Return

[if(str[i] = str[j]) i++, j--;

terminate



Prob - 2

⇒ Find longest Palindromic Substring

I/p: "babad"

o/p: 2

I/p: "cbxbd"

o/p: 3

Approach

Note:

① Any Palindromic substring can have centre of 1 or 2 characters.

odd

even

odd: consider each char of string as centre of Palindrome then check for longest Passible Palindrome.

i, i i = 1

even: consider each consecutive pair of two char as centre, check for longest Passible Palindrome.

i, i+1 1 = i+1

ex

	0	1	2	3	4	5	6
str = "	c	b	c	b	b	c	"

oob

maxlen = 4

Bug

even

0 → n-2

Ans = 4