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Self-Made Assignment - C Language

Introduction to String and String Manipulation in C Language

Assignment Question

Title: Check if a String is a Palindrome (Without Using String Functions)

Description:

Write a C program to:

1. Take a string input from the user.
2. Check if the string is a **palindrome** – meaning it reads the same forward and backward.
3. Display whether it is or is not a palindrome.

What is a Palindrome?

A palindrome is a word that reads the same forwards and backwards.

Examples:

- madam → Palindrome
- hello → Not a palindrome

Requirements:

- Use a char array.
- Count the length manually using a loop.
- Compare characters from start and end using a loop.
- Don't use any string library functions.

What the Program Should Do:

- Take string input using scanf() or gets().
- Find string length using a loop.
- Compare str[0] with str[length - 1], str[1] with str[length - 2], etc.
- Use a flag to determine if all characters match.
- Print the result.

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Output:

Output

```
Enter a string: level  
The string is a palindrome.
```

Output

```
Enter a string: yes  
The string is not a palindrome.
```

