

## **\*\* Members of team**

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**Idea:** a program that checks if a string or number is a palindrome((reads the same forwards and backwards).

### Description

The program prompts the user to enter a string.

It reads the input string using DOS interrupt 21h, function 0Ah, and stores it in a buffer.

The code calculates the length of the input string by counting the characters until the null terminator ('\$') is encountered.

Two pointers, SI and DI, are initialized to the start of the input string.

The program enters a loop that compares characters from the beginning and end of the string.

If the characters at SI and DI are not equal, the code jumps to a label indicating that the string is not a palindrome.

If SI is greater than or equal to DI, the program determines that the string is a palindrome and jumps to a label indicating so.

Based on the result, the program displays a corresponding message using DOS interrupt 21h, function 09h.

Finally, the program terminates using DOS interrupt 21h, function 4Ch.