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/*
Exp : 8 (Task 2)
Title : WAP to check if the entered string is palindrome or not
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*/
#include <stdio.h>
#include <string.h>
int main() {
    char str[100], reverse[100];
    int i, length, isPalindrome = 1;
    printf("Enter a string: ");
    fgets(str, sizeof(str), stdin);
    length = strlen(str);
    if (str[length - 1] == '\n') {
        str[length - 1] = '\0';
        length--;
    }
    for (i = 0; i < length / 2; i++) {
        if (str[i] != str[length - i - 1]) {
            isPalindrome = 0;
            break;
        }
    }
    if (isPalindrome) {
        printf("The string is a palindrome.\n");
    } else {
        printf("The string is not a palindrome.\n");
    }
    return 0;
}
/*
****OUTPUT:****
1.
Enter a string: madam
The string is a palindrome.
2.
Enter a string: hello
The string is not a palindrome.
*/

```