1. **Reverse a string using recursion**

**Code:**

#include <stdio.h>

#include <string.h>

// Function to print the reverse of a string using recursion

void reverseString(char \*str) {

if (\*str == '\0') {

return;

}

reverseString(str + 1); // Recursively call for next character

printf("%c", \*str); // Print current character

}

int main() {

char str[100];

printf("Enter a string: ");

scanf("%s", str);

printf("Reverse of the string: ");

reverseString(str);

printf("\n");

return 0;

}

**Output:**

Enter a string: Marvel

Reverse of the string: levraM

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Process exited after 30.82 seconds with return value 0

Press any key to continue . . .

