1. **Reverse a number using recursive**

**Code:**

#include <stdio.h>

// Recursive function to find the reverse of a number

int reverse(int num, int rev) {

// Base case: when num becomes 0

if (num == 0)

return rev;

// Extract the last digit of num and append it to rev

return reverse(num / 10, rev \* 10 + num % 10);

}

int main() {

int num;

// Input number from the user

printf("Enter a number: ");

scanf("%d", &num);

// Call the recursive function to find the reverse

int reversedNum = reverse(num, 0);

// Output the reversed number

printf("Reverse of %d is %d\n", num, reversedNum);

return 0;

}

**Output:**

Enter a number: 456

Reverse of 456 is 654

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Process exited after 1.91 seconds with return value 0

Press any key to continue . . .

