c program to print the fibonacci sequence using for loop

#include <stdio.h>

int main() {

    int n, first = 0, second = 1, next;

    printf("Enter the number of terms: ");

    scanf("%d", &n);

    if (n < 0) {

        printf("Error: Please enter a non-negative integer.\n");

    } else {

        printf("Fibonacci Sequence:\n");

        for (int i = 0; i < n; ++i) {

            printf("%d, ", first);

            next = first + second;

            first = second;

            second = next;

        }

        printf("\n");

    }

    return 0;

}