

CSA0317-DATA STRUCTURES

Program 6- write a c program to find Fibonacci series using recursion

```
#include <stdio.h>

int fibonacci(int n) {
    if(n == 0)
        return 0;
    else if(n == 1)
        return 1;
    else
        return fibonacci(n-1) + fibonacci(n-2);
}

int main() {
    int n, i;
    printf("Enter the number of terms: ");
    scanf("%d", &n);
    printf("Fibonacci Series: ");
    for(i = 0; i < n; i++) {
        printf("%d ", fibonacci(i));
    }
    printf("\n");
    return 0;
}
```

Output:

main.c

Output



```
Enter the number of terms: 6  
Fibonacci Series: 0 1 1 2 3 5
```

```
=== Code Execution Successful ===
```