

```
#include <stdio.h>
int FIBO(int num)
{
    if (num == 0)
        return 0;
    else if (num == 1)
        return 1;
    else
        return FIBO(num - 1) + FIBO(num - 2);
}
int main()
{
    int n;
    printf("Enter the number of terms : ");
    scanf("%d", &n);
    if (n <= 0)
    {
        printf("Please enter a positive integer.\n");
        return 0;
    }
    printf("The Fibonacci sequence up to %d terms: \n", n);
    printf(".....\n");
    for (int i = 0; i < n; i++)
    {
        printf("%d ", FIBO(i));
    }
    printf("\n");
    return 0;
}
```

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main.c

```
1 #include <stdio.h>
2 int FIBO(int num) {
3     if (num == 0)
4         return 0;
5     else if (num == 1)
6         return 1;
7     else
8         return FIBO(num - 1) + FIBO(num - 2);
9 }
10 int main() {
11     int n;
12     printf("Enter the number of terms: ");
13     scanf("%d", &n);
14     if (n <= 0) {
15         printf("Please enter a positive integer.\n");
16         return 0;
17     }
18     printf("\n-----\n");
19     printf("Fibonacci sequence up to %d terms:\n", n);
20     printf("-----\n");
21
22     for (int i = 0; i < n; i++) {
23         printf("%d ", FIBO(i));
24     }
25     printf("\n-----\n");
26 }
```

Output

```
Enter the number of terms: 8
-----
Fibonacci sequence up to 8 terms:
-----
0 1 1 2 3 5 8 13
-----
== Code Execution Successful ==
```

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