

```
1  #include <stdio.h>
2
3  int main() {
4      int n, first = 0, second = 1, next;
5      // Input number of terms
6      printf("Enter number of terms: ");
7      scanf("%d", &n);
8
9      printf("Fibonacci Series:\n");
10     for (int i = 0; i < n; i++) {
11         if (i == 0) {
12             printf("%d ", first);
13             continue;
14         }
15         if (i == 1) {
16             printf("%d ", second);
17             continue;
18         }
19         next = first + second;
20         printf("%d ", next);
21         first = second;
22         second = next;
23     }
24     printf("\n");
25
26     return 0;
```

Enter number of terms: 5

Fibonacci Series:

0 1 1 2 3

=== Code Execution Successful ===

```
1  #include <stdio.h>
2
3  // Recursive function to find nth Fibonacci number
4  int fibonacci(int n) {
5      if (n == 0) return 0; // base case
6      if (n == 1) return 1; // base case
7      return fibonacci(n - 1) + fibonacci(n - 2);
8  }
9
10 int main() {
11     int n;
12
13     // Input number of terms
14     printf("Enter number of terms: ");
15     scanf("%d", &n);
16
17     printf("Fibonacci Series:\n");
18     for (int i = 0; i < n; i++) {
19         printf("%d ", fibonacci(i));
20     }
21     printf("\n");
22
23     return 0;
24 }
25
```

```
Enter number of terms: 5
```

```
Fibonacci Series:
```

```
0 1 1 2 3
```

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