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DAA_Program1.cpp
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1 #include<iostream>
 2 using namespace std;
 3 //function using recusion
4 int rec_fib(int n) {
 5
     if((n==1)||(n==0)) {
 6
         return(n);
 7
     }else {
         return(rec_fib(n-1)+rec_fib(n-2));
8
9
     }
10 }
11 // function using iteration
12 void iter_fib(int n) {
     int x = 0, y = 1, z = 0;
     for (int i = 0; i < n; i++) {
14
15
        cout << x <<" ";
16
         Z = X + y;
17
        x = y;
18
        y = z;
19
     }
20 }
21 int main() {
22
     int n, i=0;
     cout << "Enter the number of terms of series : ";
23
     cin >> n;
24
     cout << "\nFibonnaci Series : ";</pre>
25
26
     iter fib(n); //iterative function call
27
     cout << "\nFibonnaci Series : ";</pre>
28
     while(i < n) {</pre>
         cout << " "<< rec fib(i); //recusive function call
29
30
         i++;
31
     }
32
     return 0;
33 }
```

