Data Structures-CSA0396

6.Write a c program to find fibonacci series using recursion.

Code:

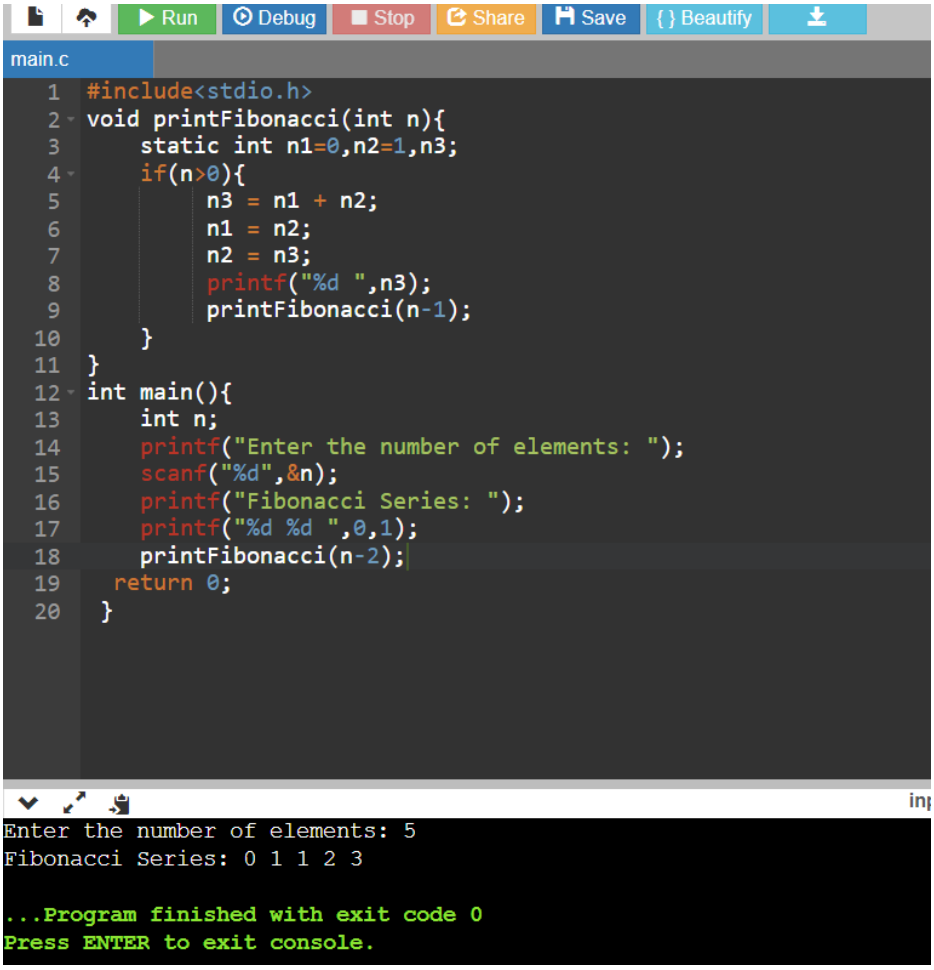
```
#include<stdio.h>

void fibonacci(int a,intb,int n){
  int c;
  if(n==0){
     return;
  }
else{
    c=a+b;
printf("%d\t",c);
    n--;
    return fibonacci(b,c,n);
   }
}
int main(){
  int n;
printf("Enter a Limit: ");
scanf("%d",&n);

printf("0 1 ");
fibonacci(0,1,n-2);

}
```

Output:


Run
Debug
Stop
Share
Save
{ } Beautify
main.c
#include<stdio.h>
void printFibonacci(int n){
static int n1=0,n2=1,n3;
if(n>0){
n3 = n1 + n2;
n1 = n2;
n2 = n3;
printf("%d ",n3);
printFibonacci(n-1);
}
}
int main(){
int n;
printf("Enter the number of elements: ");
scanf("%d",&n);
printf("Fibonacci Series: ");
printf("%d %d ",0,1);
printFibonacci(n-2);
return 0;
}
Enter the number of elements: 5
Fibonacci Series: 0 1 1 2 3
...Program finished with exit code 0
Press ENTER to exit console.