```
//sample code of recursive functions
 1
 2
    #include<stdio.h>
 3
 4
    int factorial(int n){
 6
             if(n==0 || n==1)
 7
                     return(1);
             return(n*factorial(n-1));//pass by value is required
 8
    }//end of factorial
9
10
    int fibo(int n){
11
             if(n==1 || n==2)
12
                     return(1);
13
             return(fibo(n-1)+fibo(n-2));
14
15
    }
16
17
    int combi(int n, int k){
18
             if(n==k || k==0)
19
                     return(1);
20
             return(combi(n-1,k) + combi(n-1,k-1));
    }
21
22
    int main(){
23
             int n=6, k;
24
25
             //printf("%i! == %i\n",n,factorial(n));
26
             //printf("fibonacci(%i) == %i\n",n,fibo(n));
27
             for(n=0; n<=4; n++) {
28
29
                     for(k=0; k<=n; k++)
                              printf("%2i ",combi(n,k));
30
                     printf("\n");
31
             }
32
33
    }
```