Recursion Questions

Fibonacci, tower of Hanoi, factorial

#include<stdio.h>

#include<stdlib.h>

#include<string.h>

int fac(int n){

    if(n==0 || n==1){

        return 1;

    }

    else return n\*fac(n-1);

}

int fib(int n){

    if(n==1) return 0;

    if(n==2) return 1;

    else return (fib(n-1)+fib(n-2));

}

void toh(int n,char\* s,char\* t,char\* d){

    if(n==1) {

        printf("Move rod %d from %s to %s\n",n,s,t);

        return;

    }

    toh(n-1,s,d,t);

    printf("Move rod %d from %s to %s\n",n,s,t);

    toh(n-1,d,t,s);

}

void main(){

    printf("%d\n",fac(5));

    printf("%d\n",fib(7));

    printf("\n");

    toh(3,"start","end","temp");

}

