

## Tower of hanoi:

```
1 #include<stdio.h>
2 void tower(int,char,char,char);
3 void tower(int n,char src,char temp,char dest)
4 {
5     if(n==1)
6     {
7         printf("move disc %d from %c to %c \n",n,src,dest);
8         return;
9     }
10    tower(n-1,src,dest,temp);
11    printf("move disc %d from %c to %c \n",n,src,dest);
12    tower(n-1,temp,src,dest);
13    return;
14 }
15 int main()
16 {
17     int element;
18     printf("enter the number of discs: \n");
19     scanf("%d",&element);
20     tower(element,'s','t','d');
21
22 }
```

```
enter the number of discs:
4
move disc 1 from s to t
move disc 2 from s to d
move disc 1 from t to d
move disc 3 from s to t
move disc 1 from d to s
move disc 2 from d to t
move disc 1 from s to t
move disc 4 from s to d
move disc 1 from t to d
move disc 2 from t to s
move disc 1 from d to s
move disc 3 from t to d
move disc 1 from s to t
move disc 2 from s to d
move disc 1 from t to d

...Program finished with exit code 0
Press ENTER to exit console.
```