

Tower of Hanoi using recursion:

```
#include<stdio.h>

#include<string.h>

void Tower(int n,char src,char dest,char temp)
{
    if(n==1){
        printf("move Disk 1 from %c to %c",src,dest);
        return;
    }

    Tower(n-1,src,temp,dest);
    printf("\nmove disk %d from %c to %c \n",n,src,dest);
    Tower(n-1,temp,dest,src);
    //printf("\n move disk %d from %c to %c \n",n,temp,dest);

}

void main()
{
    int n;
    char A,B,C;
    printf("Enter the number of disk in source peg \n");
    scanf("%d",&n);
    Tower(n,'A','C','B');
    return 0;
}
```

Output:

```
"C:\Users\hp\Documents\web development\towerOfHanoi.exe"
Enter the number of disk in source peg
4
move Disk 1 from A to B
move disk 2 from A to C
move Disk 1 from B to C
move disk 3 from A to B
move Disk 1 from C to A
move disk 2 from C to B
move Disk 1 from A to B
move disk 4 from A to C
move Disk 1 from B to C
move disk 2 from B to A
move Disk 1 from C to A
move disk 3 from B to C
move Disk 1 from A to B
move disk 2 from A to C
move Disk 1 from B to C
Process returned 23 (0x17)    execution time : 2.863 s
Press any key to continue.
```