Tower of hannoi:

```c
#include<stdio.h>
void tower_hanoi(int n, char src, char temp, char dest) {
    if(n == 1) {
        printf("Move %d disc from %c to %c \n",n,src,dest);
        return ;
    }

    tower_hanoi(n - 1, src, dest, temp);

    printf("Move %d disc from %c to %c \n",n,src,dest);

    tower_hanoi(n - 1, temp, src, dest);
}

int main()
{
    int x;

    printf("Enter no of discs");
    scanf("%d",&x);

    tower_hanoi(x, 'A', 'B', 'C');

    return 0;
}
```

Output:

```
Enter no of discs
3
Move 1 disc from A to C
Move 2 disc from A to B
Move 1 disc from C to B
Move 3 disc from A to C
Move 1 disc from B to A
Move 2 disc from B to C
Move 1 disc from A to C


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