

```
1: #include<stdio.h>
2: #include<stdlib.h>
3: #include<math.h>
4: void TOH(int n,char source,char dest,char aux)
5: {
6:     if(n==1)
7:     {
8:         printf("Move disc %d from %c to %c\n", n,source,dest);
9:         return;
10:    }
11:    TOH(n-1,source,aux,dest);
12:    printf("Move disc %d from %c to %c\n", n,source,dest);
13:    TOH(n-1,aux,dest,source);
14: }
15: void main()
16: {
17:     int n;
18:     printf("Enter no of discs\n");
19:     scanf("%d", &n);
20:     int count = pow(2,n)-1;
21:     printf("Number of Moves: %d\n",count);
22:     TOH(n,'A','B','C');
23: }
```