

```

1  #include<stdio.h>
2
3  void Hanoi(int num, char source, char destination, char auxilliary)
4  {
5      if(num == 1)
6      {
7          printf("Move disc from peg %c to peg %c\n", source, destination);
8      }
9      else
10     {
11         Hanoi(num - 1, source, auxilliary, destination);
12         Hanoi(1, source, destination, auxilliary);
13         Hanoi(num - 1, auxilliary, destination, source);
14     }
15 }
16
17 int main()
18 {
19     printf("##### TOWER OF HANOI WITH RECURSION ALGORITHM TESTING #####\n");
20     int num;
21     while(1)
22     {
23         printf("\nEnter number of disk: ");
24         scanf("%d", &num);
25         if(num > 0)
26         {
27             break;
28         }
29         else
30         {
31             printf("Number of disk cannot be negative or zero(0).\n");
32         }
33     }
34     Hanoi(num, 'A', 'B', 'C');
35
36     return 0;
37 }

```