

```

1  #include <stdio.h>
2
3  void towers(int, char, char, char);
4
5  int main()
6  {
7      int num;
8
9      printf("Enter the number of disks : ");
10     scanf("%d", &num);
11     printf("The sequence of moves involved in the Tower of Hanoi are :\n");
12     towers(num, 'A', 'C', 'B');
13     return 0;
14 }
15 void towers(int num, char frompeg, char topeg, char auxpeg)
16 {
17     if (num == 1)
18     {
19         printf("\n Move disk 1 from disk %c to disk %c", frompeg, topeg);
20         return;
21     }
22     towers(num - 1, frompeg, auxpeg, topeg);
23     printf("\n Move disk %d from disk %c to disk %c", num, frompeg, topeg);
24     towers(num - 1, auxpeg, topeg, frompeg);
25 }
26

```

C:\WINDOWS\SYSTEM32\cmd.exe

Enter the number of disks : 5

The sequence of moves involved in the Tower of Hanoi are :

```
Move disk 1 from disk A to disk C
Move disk 2 from disk A to disk B
Move disk 1 from disk C to disk B
Move disk 3 from disk A to disk C
Move disk 1 from disk B to disk A
Move disk 2 from disk B to disk C
Move disk 1 from disk A to disk C
Move disk 4 from disk A to disk B
Move disk 1 from disk C to disk B
Move disk 2 from disk C to disk A
Move disk 1 from disk B to disk A
Move disk 3 from disk C to disk B
Move disk 1 from disk A to disk C
Move disk 2 from disk A to disk B
Move disk 1 from disk C to disk B
Move disk 5 from disk A to disk C
Move disk 1 from disk B to disk A
Move disk 2 from disk B to disk C
Move disk 1 from disk A to disk C
Move disk 3 from disk B to disk A
Move disk 1 from disk C to disk B
Move disk 2 from disk C to disk A
Move disk 1 from disk B to disk A
Move disk 4 from disk B to disk C
Move disk 1 from disk A to disk C
Move disk 2 from disk A to disk B
Move disk 1 from disk C to disk B
Move disk 3 from disk A to disk C
Move disk 1 from disk B to disk A
Move disk 2 from disk B to disk C
Move disk 1 from disk A to disk C
```

(program exited with code: 0)

Press any key to continue . . .