

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

Enter the Number of disks: 4
The Sequence of moves involved in the tower of hanoi are:
Move disk 1 from peg A to peg C
Move disk 2 from peg A to peg B
Move disk 1 from peg C to peg B
Move disk 3 from peg A to peg C
Move disk 1 from peg B to peg A
Move disk 2 from peg B to peg C
Move disk 1 from peg A to peg C
Move disk 4 from peg A to peg B
Move disk 1 from peg C to peg B
Move disk 2 from peg C to peg A
Move disk 1 from peg B to peg A

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Move disk 1 from peg A to peg C
Move disk 2 from peg A to peg B
Move disk 1 from peg C to peg B
Move disk 3 from peg A to peg C
Move disk 1 from peg B to peg A
Move disk 2 from peg B to peg C
Move disk 1 from peg A to peg C
Move disk 4 from peg A to peg B
Move disk 1 from peg C to peg B
Move disk 2 from peg C to peg A
Move disk 1 from peg B to peg A
Move disk 1 from peg C to peg B
PS D:\Vikram work\Programs In C language>