```c
/********************************************************************************
                        Online C Compiler.
                Code, Compile, Run and Debug C program online.
    Write your code in this editor and press "Run" button to compile and execute it.

*********************************************************************************/

#include <stdio.h>
#include <time.h>

void towers(int num, char frompeg, char topeg, char auxpeg)
{
    if (num == 1)
    {
        printf("\n Move disk 1 from peg %c to peg %c", frompeg, topeg);
        return;
    }
    towers(num - 1, frompeg, auxpeg, topeg);
    printf("\n Move disk %d from peg %c to peg %c", num, frompeg, topeg);
    towers(num - 1, auxpeg, topeg, frompeg);
}


int main()
{
    int num;
    clock_t start,end;
    double time_taken;

    printf("Enter the number of disks : ");
    scanf("%d", &num);
    printf("The sequence of moves involved in the Tower of Hanoi are :\n");

    start = clock();
    towers(num, 'A', 'C', 'B');
    end = clock();
    time_taken = ((double)(end-start))/CLOCKS_PER_SEC;
```

input
ENTER to exit console.

```c
7   *****************************************************************************
8
9   #include <stdio.h>
10  #include <time.h>
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  }
23
24
25  int main()
26  {
27      int num;
28      clock_t start,end;
29      double time_taken;
30
31      printf("Enter the number of disks : ");
32      scanf("%d", &num);
33      printf("The sequence of moves involved in the Tower of Hanoi are :\n");
34
35      start = clock();
36      towers(num, 'A', 'C', 'B');
37      end = clock();
38      time_taken = ((double)(end-start))/CLOCKS_PER_SEC;
39
40      printf("\n\nTime taken: %f s",time_taken);
41
42      return 0;
43  }
```

input

ress ENTER to exit console.

```
Enter the number of disks : 2
The sequence of moves involved in the Tower of Hanoi are :

 Move disk 1 from peg A to peg B
 Move disk 2 from peg A to peg C
 Move disk 1 from peg B to peg C

Time taken: 0.000023 s

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