Towers of Hanoi

```c
#include <stdio.h>
#include <stdlib.h>

#define MAX 10

void printMove(int n, int start, int end)
{
printf("move disk %d from rod %d to rod %d\n", n, start, end);
}



int hanoi(int n, int start, int end, int other)
{
int moves = 0;
if (n == 1)
{
printMove(n, start, end);
return 1;
}
moves += hanoi(n - 1, start, other, end);
printMove(n, start, end);
moves++;
moves += hanoi(n - 1, other, end, start);
return moves;
}

int main()
{
int n;
printf("Enter number of disks: ");
scanf("%d", &n);
int start = 1;
int end = 3;
int aux = 2;
int m = hanoi(n, start, end, aux);
printf("Total moves: %d\n", m);
return 0;
}
```