**TOWER OF HANOI**

Using a helper stick (peg), shift all rings from peg ****A**** to peg ****B**** using peg ****C****.  
All rings are initally placed in ascending order, smallest being on top.  
No bigger ring can be placed over a smaller ring.

**Input Format:**

Single line input containing a single integer N denoting the no of rings.

**Constraints:**

1 <= N <= 10

**Output Format**

Print the instructions to move all the rings from peg ****A**** to ****B**** in a new line each.  
Each line should follow format : Moving ring ****i**** from ****A/B/C**** to ****A/B/C****

**Sample Input**

4

**Sample Output**

Moving ring 1 from A to C

Moving ring 2 from A to B

Moving ring 1 from C to B

Moving ring 3 from A to C

Moving ring 1 from B to A

Moving ring 2 from B to C

Moving ring 1 from A to C

Moving ring 4 from A to B

Moving ring 1 from C to B

Moving ring 2 from C to A

Moving ring 1 from B to A

Moving ring 3 from C to B

Moving ring 1 from A to C

Moving ring 2 from A to B

Moving ring 1 from C to B

Program-

#include<iostream>

using namespace std;

void towerofhanoi(int n,char strt,char dest,char help){

if(n==0){

return;

}

towerofhanoi(n-1,strt,help,dest);

cout<<"Moving ring "<<n<<" from "<<strt<<" to "<<dest<<endl;

towerofhanoi(n-1,help,dest,strt);

}

int main() {

int n;

cin>>n;

towerofhanoi(n,'A','B','C');

return 0;

}