#include<iostream>

using namespace std;

void towerOfHanoi(int n, char source, char auxiliary, char destination) {

    if (n == 1){

        cout << " Move disk 1 from rod " << source << " to rod " << destination << endl;

        return;

    }

    towerOfHanoi(n-1, source, destination, auxiliary);

    cout << " Move disk " << n << " from rod " << source << " to rod " << destination << endl;

    towerOfHanoi(n-1, auxiliary, source, destination);

}

int main() {

    int n;

    cout << "Enter the numbers of disks: ";

    cin >> n;

    cout << " Steps to solve Tower of Hanoi problem with " << n << " disks: " << endl;

    towerOfHanoi(n,'A', 'B', 'C');

    return 0;

}