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/*
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  IT205 ObJ Oriented Programming
  11/28/2021
  Honnor Pledge: DJ Gunn
  Final Exam Part 1
  */
package finalexampart1;
import java.util.Scanner;

public class FinalExamPart1 {
    static int total;
    static void solvePuzzle(int number, char from_rod, char to_rod, char
aux_rod){
        if (number == 1) {
            System.out.println("Move disk 1 from "+ from_rod + " to " +
to_rod);
            total++;
            return;
        }
        solvePuzzle(number-1, from_rod, aux_rod, to_rod);
        System.out.println("Move disk " + number + " from "+ from_rod +
to_rod);
        total++;
        solvePuzzle(number-1, aux_rod, to_rod, from_rod);
    }

    public static void main(String[] args) {
        // write program here
        Scanner input = new Scanner(System.in);
        System.out.print("Enter the number of disks: ");
        int number = input.nextInt();
        System.out.println();
        total = 0;
        solvePuzzle(number, 'A', 'B', 'C');
        System.out.println("\nTotal number of moves: " + total);
    } //end of main

} //end of class

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```