The problem states that there are 3 pegs A, B and C. Initially there are n disks placed on peg A in increasing order of dimension (radius) that is the disk with smallest radius is at the top and the disk with the largest radius is at the bottom. Our task is to move all the disks from peg A (source) to peg C (destination) using peg B (auxiliary peg) and the following 2 rules:

1. We can move only one disk at a time.
2. A smaller disk must always be placed over a larger disk.

Input Format :

A single integer denoting the number of disks.

Output Format :

Movement of each disk till our goal is achieved.