# We do not need 3 stacks to keep track of the disks, we only need to change the names around  
# recursive function  
def hanoi(n, origin, extra, target):  
 # size of one  
 if n == 1:  
 print("Move disk 1 from peg", origin, "to peg", target)  
 return  
 # recursive call and change places  
 hanoi(n - 1, origin, target, extra)  
 print("Move disk", n, "from peg", origin, "to peg", target)  
 # recursive call and change places  
 hanoi(n - 1, extra, origin, target)  
  
  
# n is the amount of disks  
n = (int(input("Please input a positive, integer number: ")))  
hanoi(n, 'A', 'B', 'C')