class Tower:

def \_\_init\_\_(self):

self.terminate = 1

def printMove(self, source, destination):

print("{} -> {}".format(source, destination))

def move(self, disc, source, destination, auxiliary):

if disc == self.terminate:

self.printMove(source, destination)

else:

self.move(disc - 1, source, auxiliary, destination)

self.move(1, source, destination, auxiliary)

self.move(disc - 1, auxiliary, destination, source)

x = int(input("ENTER THE NUMBER OF DISKS: "))

t = Tower();

t.move(x, 'A', 'B', 'C')

def hanoi(x):

global repN

repN += 1

if x == 1:

return 2

else:

return 3\*hanoi(x-1) + 2

x = int(input("ENTER THE NUMBER OF DISKS: "))

global repN

repN =0

print('NUMBER OF STEPS: ', hanoi(x), ' :', repN)