PROGRAM 3:

x = 0

y = 0

m = 4

n = 3

print("Initial state = (0,0)")

print("Capacities = (4,3)")

print("Goal state = (2,y)")

while x != 2:

r = int(input("Enter rule"))

if(r == 1):

x = m

elif(r == 2):

y = n

elif(r == 3):

x = 0

elif(r == 4):

y = 0

elif(r == 5):

t = n - y

y = n

x -= t

elif(r == 6):

t = m - x

x = m

y -= t

elif(r == 7):

y += x

x = 0

elif(r == 8):

x += y

y = 0

print(x,y)

OUTPUT:

