Practice 03:

Implementation of Pigeonhole Sort in Python

Code:

def pigeonhole\_sort(a):

my\_min = min(a)

my\_max = max(a)

size = my\_max - my\_min + 1

holes = [0] \* size

for x in a:

assert type(x) is int, "integers only please"

holes[x - my\_min] += 1

i = 0

for count in range(size):

while holes[count] > 0:

holes[count] -= 1

a[i] = count + my\_min

i += 1

a = [8, 3, 2, 7, 4, 6, 8]

print("Sorted order is : ", end = ' ')

pigeonhole\_sort(a)

for i in range(0, len(a)):

print(a[i], end = ' ')