def bubble\_sort(array):

n=len(array)

for i in range(n):

swap=False

for j in range(n-i-1):

if array[j]>array[j+1]:

array[j],array[j+1]=array[j+1],array[j]

swap = True

if not swap:

break

return array

print(bubble\_sort([3,5,4,3]))

def selection\_sort(array):

n= len(array)

for i in range(n):

cur\_min=i

for j in range(i+1 ,n):

if array[j]<array[cur\_min]:

cur\_min=j

array[i], array[cur\_min]=array[cur\_min],array[i]

return array

print(selection\_sort([3,5,4,3]))

def incersion\_sort(arr):

for i in range(1 ,len(arr)):

j=i

while arr[j-1]>arr[j] and j>0:

arr[j-1],arr[j]=arr[j],arr[j-1]

j-=1

return arr

print(incersion\_sort([2,3,7,4,2]))

def shell\_sort(arr):

n= len(arr)

gap = n//2

while(gap>0):

for i in range(gap ,n):

temp=arr[i]

j=i

while j>=gap and arr[j-gap]>temp:

arr[j]=arr[j-gap]

j-=gap

arr[j]=temp

gap//=2

return arr

print(shell\_sort([3,6,4,2]))