#This is insertion sort

a=[]

b=int(input("Enter number of elements:"))

print("Enter the elements of lists:")

for element in range(b):

d=int(input(" "))

a.append(d)

print("The list is: ",a)

for i in range(len(a)):

for j in range(0,i):

if (a[i]<a[j]):

value=a[i]

a[i]=a[j]

a[j]=value

print("Sorted List is over here :",a)

#This is Bubble sort

a=[]

b=int(input("Enter number of elements:"))

print("Enter the elements of lists:")

for element in range(b):

d=int(input(" "))

a.append(d)

print("The list is: ",a)

for i in range(len(a)):

for j in range(0,(len(a)-1)-i):

if (a[j]<a[j+1]):

value=a[j]

a[j]=a[j+1]

a[j+1]=value

print(" Bubble Sorted List is over here :",a)

#This is selection sort

a=[]

b=int(input("Enter number of elements:"))

print("Enter the elements of lists:")

for element in range(b):

d=int(input(" "))

a.append(d)

print("The list is: ",a)

for i in range(len(a)):

for j in range(i+1,len(a)):

if (a[i]>a[j]):

value=a[i]

a[i]=a[j]

a[j]=value

print(" Selection Sorted List is over here :",a)