import array as arr

n=int(input("Enter the number of the students: "))

a=arr.array('f',[])

for i in range (n):

e=float(input("Enter the percentage of the students: "))

a.append(e)

print("The array before sorting: ",a)

#selection sort

for i in range (n):

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

if a[i]>a[j]:

temp=a[i]

a[i]=a[j]

a[j]=temp

print("The array after the selection sort is: ",a)

#Bubble sort

for i in range (n):

for j in range(n-1):

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

temp=a[j]

a[j]=a[j+1]

a[j+1]=temp

print("The array after the bubble sort is : ",a)

#display the top 5 scores

b=a[-5:]

for i in range(5):

for j in range (i+1,5):

if b[i]<b[j]:

temp=b[i]

b[i]=b[j]

b[j]=temp

print("The top 5 scores are: ",b)