 # implementetion of quick sort

def pivote\_element(arr,low,high):

    if(low,high):

        pivote=low

        i=low

        j=high

    while(i<j):

        while(arr[i]<=arr[pivote] and i<high):

            i=i+1

        while(arr[j]>arr[pivote]):

            j=j-1

        if(i<j):

            temp=arr[i]

            arr[i]=arr[j]

            arr[j]=temp

    temp=arr[pivote]

    arr[pivote]=arr[j]

    arr[j]=temp

    return j

def quicksort(arr,low,high):

    if(low<high):

        pi=pivote\_element(arr,low,high)

        print(arr)

        quicksort(arr,low,pi-1)

        quicksort(arr,pi+1,high)

b=int(input("How many students in your class :"))

print("\*\*The top five scores are :\*\*")

c=[]

arr = []

n = 5

for j in range (n):

  a=float(input("THE FIVE HIGHEST SCORES ARE :"))

  arr.append(a)

print("Unsorted arry is\n",arr)

quicksort(arr, 0, n-1)

print("Sorted array is:")

for i in range(n):

    c.append(arr[i])

print(c)