def shellSort(array, n):

interval = n // 2

while interval > 0:

for i in range(interval, n):

temp = array[i]

j = i

while j >= interval and array[j - interval] > temp:

array[j] = array[j - interval]

j -= interval

array[j] = temp

interval //= 2

arr = []

m = int(input("Enter number of students : "))

for i in range(0, m):

ele = int(input())

arr.append(ele)

size = len(arr)

print("Array Of Marks Before Sorting : ")

for i in range (size):

print(arr[i])

shellSort(arr,size)

print("Array Of Marks After Sorting : ")

for i in range (size):

print(arr[i])

arrMax = arr

arrMax.reverse()

print("Top 5 Marks In Class : ")

for i in range (0,5):

print(arrMax[i])