def sort (array):  
 for i in range (len(array)//2-1,-1,-1):  
 heapify(array,len(array),i)  
 for i in range(len(array) - 1, -1, -1):  
 array[0],array[i]=array[i],array[0]  
 heapify(array,i,0)  
  
def heapify (array, heapsize:int,rootindex:int):  
 lagest=rootindex  
 leftchild=2\*rootindex+1  
 rightchild=2\*rootindex+2  
 if ((leftchild<heapsize) and (array[leftchild]>array[lagest])):  
 lagest=leftchild  
 if ((rightchild < heapsize) and (array[rightchild] > array[lagest])):  
 lagest = rightchild  
 if (lagest!=rootindex):  
 array[rootindex],array[lagest]=array[lagest],array[rootindex]  
 heapify (array, heapsize,lagest)