Merge Sort Using Python  
  
def mergesort(x):

finalset=[]

mid=int(len(x)/2)

a=mergesort(x[:mid])

b=mergesort(x[mid:])

n=len(a)

m=len(b)

i=0

j=0

while i<n and j<m:

if a[i]<b[j]:

finalset.append(a[i])

i+=1

elif:

finalset.append(b[j])

j+=1

finalset+=a[i:]

finalset+=b[j:]

return result