# quick sort is an inplace sorting technique

def quickSort(l):

pivot = l[0]

gt, lt = [], []

if len(l) ==0:

return []

elif len(l) == 1:

return l

for n in l[1:]:

if n <= pivot:

lt.append(n)

else:

gt.append(n)

return quickSort(lt) + [pivot] + quickSort(gt)