# Quicksort Sample code

**def** **quicksort**(myList, start, end):

**if** start **<** end:

*# partition the list*

pivot **=** partition(myList, start, end)

*# sort both halves*

quicksort(myList, start, pivot**-**1)

quicksort(myList, pivot**+**1, end)

**return** myList

**def** **partition**(myList, start, end):

pivot **=** myList[start]

left **=** start**+**1

right **=** end

done **=** False

**while** **not** done:

**while** left **<=** right **and** myList[left] **<=** pivot:

left **=** left **+** 1

**while** myList[right] **>=** pivot **and** right **>=**left:

right **=** right **-**1

**if** right **<** left:

done**=** True

**else**:

*# swap places*

temp**=**myList[left]

myList[left]**=**myList[right]

myList[right]**=**temp

*# swap start with myList[right]*

temp**=**myList[start]

myList[start]**=**myList[right]

myList[right]**=**temp

**return** right