# lab Assignment

# recursive mergeSort

**Assignment:**

Use your merge method from the previous assignment. *Merge* is a starting point, write a recursive mergeSort method as described in the student lesson. Pseudocode for the recursive mergeSort method is given below.

// Recursively divides a list in half, over and over. When the

// sublist has one or two values, stop subdividing.

**void** mergeSort(ArrayList <Comparable> a, **int** first, **int** last){

if (sublist has only one value){

do nothing

} else if (sublist has two values){

sort it if necessary

}else{ // recursion, divide list into two halves

Find midpoint of current sublist

Call mergeSort and process left sublist

Call mergeSort and process right sublist

merge left and right sublists

}

}

You will have to modify the merge method to fit the necessary calls of the mergeSort method.