**Problem #1**

**//PART A**

void difference(L1, L2, Difference)

Create list iterators for L1 and L2

if iterators detect L1 and L2 an element

store the values in AnyType variables (itemL1 and itemL2)

while (itemL1 and itemL2 are not null)

if (itemL1 == itemL2)

if(iteratorL1.hasNext)

itemL1 = iteratorL1.next //iterate to next value in L1

else itemL1 = null //at the end of L1 or L1 is empty

//iteratorL2 need to be updated

if (iter2.hasNext)

itemL2 = iteratorL2.next //iterate to next value in L2

else itemL2 = null //at the end of L2 or L2 is empty

else if (itemL1 < itemL2)

Difference.add(itemL1)

//update L1

if(iteratorL1.hasNext)

itemL1 = iteratorL1.next

else itemL1 = null

else

Difference.add(itemL1)

if(iteratorL1.hasNext)

itemL1 = iteratorL1.next

else itemL1 = null