```
1.
        public static void printLots(ArrayList<Integer> | ArrayList<Integer> |
               int i = 0; //index for I
               Iterator<Integer> j = p.iterator(); //iterator for p
               for (Integer x : I) {
                       if (j.hasNext()){
                              //if the index for p matches element in I
                              if (i == (int) j.next()){
                                      System.out.println(x);
                                      j.remove();
                              } else {
                                      //reset the iterator for I
                                      j = p.iterator();
                              }
                       }
                       į++;
               }
        }
2. Weiss 3.4 (From book solutions)
public static <AnyType extends Comparable<? super AnyType>> void
intersection(List<AnyType> L1, List<AnyType> L2, List<AnyType> Intersect)
                                                                                    {
       ListIterator<AnyType> iterL1 = L1.listIterator();
       ListIterator<AnyType> iterL2 = L2.listIterator();
       AnyType itemL1=null, itemL2=null;
       // get first item in each list
       if ( iterL1.hasNext() && iterL2.hasNext() ){
               itemL1 = iterL1.next();
               itemL2 = iterL2.next();
       }
       while ( itemL1 != null && itemL2 != null ){
               int compareResult = itemL1.compareTo(itemL2);
               if (compareResult == 0) {
```

```
Intersect.add(itemL1);
                      itemL1 = iterL1.hasNext() ? iterL1.next() : null;
                      itemL2 = iterL2.hasNext() ? iterL2.next() : null;
               } else if ( compareResult < 0 ){
                      itemL1 = iterL1.hasNext() ? iterL1.next() : null;
               } else {
                      itemL2 = iterL2.hasNext() ? iterL2.next() : null;
               }
       }
}
3. TwoStacks.java
4.
a)
       s1.push(4)
                              Output:
       s1.push(3)
                              Output:
       Push 1 to output
                              Output: [1]
                              Output:
   - s2.push(8)
       Push 2 to output
                              Output: [2,1]
       Push s1.pop() // 3
                              Output: [3,2,1]
       Push s1.pop() // 4
                              Output: [4,3,2,1]
       s2.push(7)
       s2.push(6)
       s1.push(9)
       Push 5 to putput
                              Output: [5,4,3,2,1]
       Push s2.pop() //6
                              Output: [6,5,4,3,2,1]
       Push s2.pop( ) //7
                              Output: [7,6,5,4,3,2,1]
       Push s2.pop() //8
                              Output: [8,7 6,5,4,3,2,1]
       Push s1.pop() //9
                              Output: [9,8,7,6,5,4,3,2,1]
```

b) 1,9,8,7,6,5,4,3,2

In this example, 1 must be inserted before all other elements into the output track, however, moving all other elements out of the way (into the holding tracks) to get to 1 will trap all of the smaller elements we would need to access before the larger elements underneath the larger elements, making them impossible to get to.