

```

1  package assignmentMidterm02;
2
3  // Please see README.txt
4  // We will go over the answers in class.
5  // Thank you.
6
7  import java.util.List;
8  import java.util.LinkedList;
9  import java.util.Iterator;
10 import java.util.ListIterator;
11
12 public class MidtermExam02B6_1 {
13
14     public static void main(String[] args) {
15
16         List<String> listA = new LinkedList<>();
17         listA.add("a");
18         listA.add("b");
19         listA.add("c");
20         listA.add("A");
21         listA.add("B");
22         listA.add("C");
23         listA.add("D");
24         listA.add("E");
25         listA.add("F");
26
27         List<String> listB = new LinkedList<>();
28         listB.add("F");
29         listB.add("E");
30         listB.add("D");
31         listB.add("C");
32         listB.add("B");
33         listB.add("A");
34
35         Iterator<String> it = listA.iterator();
36         ListIterator<String> li = listB.listIterator(listB.size());
37
38         int gap = listA.size() - listB.size();
39         int i = 0;
40         while (it.hasNext()) {
41             i++;
42             it.next();
43             if (i == gap) {
44                 while (it.hasNext() && li.hasPrevious()) {
45                     if (it.next().compareTo(li.previous()) != 0) {
46                         System.out.println("The tail of listA is NOT the reverse
47                             of listB");
48                         return;
49                     }
50                 }
51             }
52             System.out.println("The tail of listA is the reverse of listB");
53         }
54     }
55 }

```