

# Homework Turnin

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Section: 6G  
Course: TJHSST APCS 2016-17  
Assignment: 04-03

Receipt ID: 14d5b7352f97b380a1b98ebc80057a70

Execution failed with return code 1 (general error). (Expected for JUnit when any test fails.)

Warning: Your program failed to compile :

```
Josephus.java:39: error: cannot find symbol
    ListLab1.pointerToLast(list).setNext(list);
    ^
  symbol:   variable ListLab1
  location: class Josephus
Josephus.java:96: error: cannot find symbol
    p = ListLab1.insertLast(p, obj);
    ^
  symbol:   variable ListLab1
  location: class Josephus
2 errors
```

Please correct your file(s), go back, and try to submit again. If you do not correct this problem, you are likely to lose a large number of points on the assignment. Please contact your TA if you are not sure why your code is not compiling successfully.

## Turnin Failed! (See above)

There were some problems with your turnin. Please look at the messages above, fix the problems, then **Go Back** and try your turnin again.

GradelT has a copy of your submission, but we believe that you will want to fix the problems with your submission by resubmitting a fixed version of your code by the due date.

We have received the following file(s):

## Josephus.java (3598 bytes)

```

1. // name:    date:
2.
3. import java.util.*;
4. import java.io.*;
5. import javax.swing.JOptionPane;
6.
7. public class Josephus
8. {
9.     private static String WINNER = "Josephus";
10.    public static void main(String[] args) throws FileNotFoundException
11.    {
12.        /* run it first with J_numbers.txt */
13.        ListNode p = null;
14.        int n = Integer.parseInt(JOptionPane.showInputDialog("How many names (2-20)?"));
15.        File f = new File("J_numbers.txt");
16.        p = readNLinesOfFile(n, f);
17.        int countOff = Integer.parseInt(JOptionPane.showInputDialog("How many names to count off each time?"));
18.        countingOff(p, countOff, n);
19.
20.        /* run it next with J_names.txt */
21.        System.out.println("\n **** Now start all over. Enter the winning position in the JOptionPane. *** \n");
22.        p = readNLinesOfFile(n, new File("J_names.txt"));
23.        int winPos = Integer.parseInt(JOptionPane.showInputDialog("Enter Josephus's preferred position."));
24.        replaceAt(p, WINNER, winPos);
25.        countingOff(p, countOff, n);
26.        System.out.println(WINNER + " wins!");
27.    }
28.    /* reads the names, builds the linked list.
29.    */
30.    public static ListNode readNLinesOfFile(int n, File f) throws FileNotFoundException
31.    {
32.        ListNode list = null;
33.        Scanner infile = new Scanner(f);
34.        for(int i=0; i<n; i++)
35.        {
36.            list = insert(list, infile.next());
37.        }
38.
39.        ListLab1.pointerToLast(list).setNext(list);
40.
41.        return list;
42.    }
43.
44.    /* Runs a Josephus game, counting off and removing each name. Prints after each removal.
45.    Ends with one remaining name, who is the winner.
46.    */
47.    public static void countingOff(ListNode p, int count, int n)
48.    {
49.        print(p);
50.        for(int i = 0; i<n-1; i++)
51.        {
52.            p = remove(p, count);
53.            print(p);
54.        }
55.    }
56.    /* removes the node after counting off count-1 nodes.
57.    */
58.    private static ListNode remove(ListNode p, int count)
59.    {
60.        if(count==1)
61.        {
62.            Object end = p.getValue();
63.            while(p.getNext().getValue()!=end)
64.                p = p.getNext();
65.        }
66.        else
67.            for(int i = 0; i<count-2; i++)
68.                p = p.getNext();
69.        p.setNext(p.getNext().getNext());
70.        return p.getNext();
71.    }
72.    /* prints the circular linked list.
73.    */
74.    public static void print(ListNode p)
75.    {
76.        ListNode p2 = p;
77.        Object end = p2.getValue();

```

```

78.     System.out.print(p2.getValue()+" ");
79.     p2=p2.getNext();
80.     while(p2.getValue()!=end)
81.     {
82.         System.out.print(p2.getValue() + " ");
83.         p2 = p2.getNext();
84.     }
85.     System.out.print("\n");
86. }
87. /* helper method to build the list. Creates the node, then
88.    inserts it in the circular linked list.
89. */
90. private static ListNode insert(ListNode p, Object obj)
91. {
92.     if(p==null)
93.         p= new ListNode(obj, null);
94.     else
95.     {
96.         p = ListLab1.insertLast(p, obj);
97.     }
98.     return p;
99. }
100.
101. /* replaces the value (the string) at the winning node.
102. */
103. private static void replaceAt(ListNode p, Object obj, int pos)
104. {
105.     for(int i=0;i<pos-1;i++)
106.         p = p.getNext();
107.     p.setValue(obj);
108. }
109. }
110.
111. //the College Board's standard ListNode class
112. class ListNode
113. {
114.     private Object value;
115.     private ListNode next;
116.     public ListNode(Object v, ListNode n)
117.     {
118.         value=v;
119.         next=n;
120.     }
121.     public Object getValue()
122.     {
123.         return value;
124.     }
125.     public ListNode getNext()
126.     {
127.         return next;
128.     }
129.     public void setValue(Object newv)
130.     {
131.         value=newv;
132.     }
133.     public void setNext(ListNode newn)
134.     {
135.         next=newn;
136.     }
137. }

```