3/3/2017 Homework Turnin

Homework Turnin

Account: 6G_06 (rgalanos@fcps.edu)

Section: 60

Course: TJHSST APCS 2016-17

Assignment: 07-05

Receipt ID: 7dc3a1c210a3fee87d3d69f782fc205c

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

```
Warning: Your program failed to compile:

BSTobject_Driver_shell.java:5: error: class BSTobject_Driver is public, should be declared in a file public class BSTobject_Driver

BSTobject_Driver_shell.java:63: error: duplicate class: BSTinterface interface BSTinterface<E extends Comparable<E>>

BSTobject_Driver_shell.java:74: error: duplicate class: BSTobject class BSTobject <E extends Comparable<E>> implements BSTinterface<E>

Note: BSTobject_Driver.java uses unchecked or unsafe operations.
Note: Recompile with -Xlint:unchecked for details.

3 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
```

Turnin Failed! (See above)

is not compiling successfully.

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):

```
Discrete Driver. Java (10940 bytes)

| Jamort java.util.*;
| Jamor
```

```
System.out.print(treeOfWidgets);
System.out.println(treeOfWidgets.size());
 41. 42. 43. 44. 45. 44. 49. 501. 552. 555. 556. 558. 661. 666. 670. 772. 775. 776. 777. 779. 80. 81.
                  Scanner keyboard = new Scanner(System.in);
System.out.print("Enter pounds ");
int pounds = keyboard.nextInt();
System.out.print("Enter ounces ");
int ounces = keyboard.nextInt();
Widget w = new Widget(pounds, ounces);
                   if(treeOfWidgets.contains(w))
                       treeOfWidgets.delete(w);
System.out.print(treeOfWidgets);
System.out.println(treeOfWidgets.size());
                        System.out.println("Not found");
                   //day three -- AVL tree -----
             // build the tree for Strings, Day 1
public static BSTobject<String> build(BSTobject<String> tree, String str)
                   for(Character c: str.toCharArray())
                        tree.add(c+"");
                   return tree:
             //build the tree for Widgets, Day 2
public static BSTobject<Widget> build(BSTobject<Widget> tree, File file)
                   Scanner infile = null;
                  try{
  infile = new Scanner( file );
                   catch (Exception e)
                       System.exit(0);
 83.
84.
85.
                   for(int i = 0; i < 10; i++)
 86.
87.
88.
                       tree.add(new Widget(infile.nextInt(), infile.nextInt()));
                   return tree;
 89.
             }
 90. }
91.
92. //
93. ir
94. {
        //////////////////
interface BSTinterface<E extends Comparable<E>>>
             96.
97.
98.
99.
100.
104.
105.
106.
107.
        class BSTobject <E extends Comparable<E>> implements BSTinterface<E>
             Node<E> root;
int size;
// 1 default
108.
109.
110.
             // 1 default constructor
public BSTobject()
111.
                  root = null;
size = 0;
114.
115.
116.
117.
118.
             //instance methods
public E add( E obj )
                  root = add( root, obj );
size++;
return obj;
121.
122.
123.
124.
125.
             //recursive helper method
private Node<E> add( Node<E> t, E obj )
                  if(t == null)
    t = new Node<E>(obj);
else if(((Comparable)t.getValue()).compareTo(obj)>=0)
126.
127.
128.
129.
130.
131.
132.
                       if(t.getLeft()==null)
    t.setLeft(new Node(obj));
else
133.
134.
135.
                             add(t.getLeft(),obj);
                   else if(((Comparable)t.getValue()).compareTo(obj)<0)
136.
137.
138.
                       if(t.getRight()==null)
    t.setRight(new Node(obj));
139.
                        else
140.
141.
142.
143.
                             add(t.getRight(),obj);
             }
}
/* implement the interface here. Use TreeNode as an example,
but root is a field. You need add, contains, isEmpty,
delete, size, and toString. */
public boolean contains( E element )
146.
147.
147.
148.
149.
150.
                   Node<E> temp = root;
while(temp!=null)
151.
152.
153.
154.
                       if(((Comparable)temp.getValue()).compareTo(element)>0)
  temp = temp.getLeft();
else if(((Comparable)temp.getValue()).compareTo(element)<0)
  temp = temp.getRight();</pre>
155.
156.
                             return true;
157.
158
159.
160.
                   return false:
             public boolean isEmpty()
```

```
163.
164.
165.
166.
167.
                if(root == null)
   return true;
                else
return false;
168.
            public E delete( E element ) //returns the object, not a Node<E>
169.
170.
                size--;
Node<E> current = root;
171.
172.
173.
174.
175.
                Node<E> parent = null;
while(current !=null)
                     int compare = ((Comparable)current.getValue()).compareTo((element));
176.
177.
                     if(compare>0)
178.
179.
                         parent = current;
current = current.getLeft();
180.
181.
182.
                     else if(compare<0)
183.
184.
185.
                         parent = current;
current = current.getRight();
186.
187.
188.
189.
                     else
                         if(parent == null)
190.
                             if(current.getLeft()==null&&current.getRight()==null);
else if(current.getLeft()==null)
    root = root.getRight();
else if(current.getRight()==null)
    root = root.getLeft();
else if(current.getLeft().getRight()==null)
{
192.
193.
194
196.
197.
                                  \label{lem:current.getLeft().getValue())} current.setLeft(current.getLeft().getLeft());
200.
201.
202.
                              else
                                  current = current.getLeft();
while(current.getRight().getRight()!=null)
203.
204.
                                       current = current.getRight();
207.
                                   J
root.setValue(current.getRight().getValue());
if(current.getRight().getLeft()!=null)
current.setRight(current.getRight().getLeft());
208
209.
210.
211.
                                  else
212
                                       current.setRight(null);
                         else if(current.getLeft()==null&&current.getRight()==null)
215.
                             216.
217.
218.
219
                                  parent.setRight(null);
222.
223
                          else if(current.getLeft()==null)
225.
                             if(((Comparable)parent.getLeft().getValue()).compareTo((Comparable)current.getValue())==0)
    parent.setLeft(current.getRight());
else
226.
227.
228
                                  parent.setRight(current.getRight());
229
230.
231.
232.
                          else if(current.getRight()==null)
                             if(((Comparable)parent.getLeft().getValue()).compareTo((Comparable)current.getValue())==0)
    parent.setLeft(current.getLeft());
else
233.
236.
237.
238.
239.
240.
                                  parent.setRight(current.getLeft());
                          else
                              if(current.getLeft().getRight()!=null)
                                  boolean\ bool = (((Comparable)parent.getRight().getValue()).compareTo(((Comparable)current.getValue())==0); \\ current = current.getLeft(); \\ while(current.getRight().getRight()!=null)
244
245.
246.
247.
                                       current = current.getRight();
248.
249.
250.
251.
252.
253.
254.
256.
257.
                                   if(current.getRight().getLeft()==null)
                                       if(bool)
                                           parent.getRight().setValue(current.getRight().getValue());
current.setRight(null);
                                       else
                                           parent.getLeft().setValue(current.getRight().getValue());
current.setRight(null);
258.
259.
260.
                                  else
261.
262
                                       if(bool)
                                           parent.getRight().setValue(current.getRight().getValue());
current.setRight(current.getRight().getLeft());
265.
266.
267.
                                       élse
268.
269
270. 271.
                                           parent.getLeft().setValue(current.getRight().getValue());
current.setRight(current.getRight().getLeft());
272.
273
274.
275.
                              élse
276.
277
                                  current.setValue(current.getLeft().getValue());
current.setLeft(current.getLeft().getLeft());
279.
280.
                              }
281.
282.
                         current = null;
283.
```

```
//never reached
return element;
285. 286. 287. 288. 299. 299. 299. 295. 296. 297. 298. 303. 304. 305. 307. 308. 316. 317. 312. 313. 321. 322. 323. 324. 325. 327. 328. 329. 330. 332. 328. 329. 331. 332.
                            public int size()
                                      return size;
                            public String toString()
                                      return toString(root, 0);
                            private String toString(Node<E> t, int level)
                                      String toRet = "";
if(t == null)
   return "";
                                     private class Node<E>
                                      private Object value;
private Node<E> left, right;
                                      public Node(Object initValue)
                                                value = initValue;
left = null;
right = null;
                                      public Node(Object initValue, Node<E> initLeft, Node<E> initRight)
                                                value = initValue;
left = initLeft;
right = initRight;
                                      public Object getValue()
                                                return value;
334.

335.

336.

337.

338.

339.

340.

341.

342.

343.

344.

345.

346.

351.

352.

353.

353.

355.

356.

357.

358.

369.

361.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

363.

364.

365.

366.

367.

368.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

369.

                                      public Node<E> getLeft()
                                                return left;
                                      public Node<E> getRight()
                                                return right;
                                      public void setValue(Object theNewValue)
                                                value = theNewValue;
                                      public void setLeft(Node<E> theNewLeft)
                                                left = theNewLeft;
                                      public void setRight(Node<E> theNewRight)
                                                right = theNewRight;
                                      // 3 fields
                                     // 2 constructors, one-arg and three-arg
                                      //methods--Use TreeNode as an example. See the cheat sheet.
```