5/24/2017 Homework Turnin

Homework Turnin

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Section: 6G

Course: TJHSST APCS 2016–17

Assignment: 11–01

Receipt ID: 13cc709efaef8ee91194616768b58067

Warning: Your turnin is 1 day late. Assignment 11–01 was due Wednesday, May 24, 2017, 12:00 AM.

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

Warning: Your program failed to compile:

deHuffman_teacher.java:81: error: duplicate class: TreeNode
class TreeNode

۸

1 error

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):

deHuffman.java (2921 bytes)

```
2. import java.util.Scanner;
 3. import java.io.*;
 4. public class deHuffman
 5.
       public static void main(String[] args) throws IOException
 6.
 7.
 8.
          Scanner keyboard = new Scanner(System.in);
          System.out.print("\nWhat binary message (middle part)? ");
 9.
          String middlePart = keyboard.next();
10.
          Scanner sc = new Scanner(new File("message."+middlePart+".txt"));
11.
12.
          String binaryCode = sc.next();
13.
          Scanner huffLines = new Scanner(new File("scheme."+middlePart+".txt"));
14.
          TreeNode root = huffmanTree(huffLines);
15.
16.
          String message = dehuff(binaryCode, root);
          System.out.println(message);
17.
18.
19.
          sc.close();
20.
          huffLines.close();
21.
22.
       public static TreeNode huffmanTree(Scanner huffLines)
23.
24.
          TreeNode tree = new TreeNode(null);
25.
          while(huffLines.hasNext())
26.
27.
              TreeNode child = tree;
             String str = huffLines.nextLine();
28.
             for(int i=1;i<str.length();i++)</pre>
29.
30.
                 if(str.charAt(i)=='0')
31.
32.
33.
                    if(child.getLeft()==null)
34.
                       child.setLeft(new TreeNode(null));
35.
                    child = child.getLeft();
36.
37.
                 else
38.
                    if(child.getRight()==null)
39.
                       child.setRight(new TreeNode(null));
40.
41.
                    child = child.getRight();
42.
43.
44.
             child.setValue(str.charAt(0)+"");
45.
          return tree;
46.
47.
48.
       public static String dehuff(String text, TreeNode root)
49.
50.
          String str = "";
51.
          int i=0;
52.
          while(i<text.length())</pre>
53.
54.
              TreeNode temp = root;
55.
             int length = str.length();
56.
             while(str.length()==length)
57.
                 if(temp.getValue()!=null)
58.
59.
                    str+=temp.getValue();
                 else if(text.charAt(i)=='0')
60.
61.
62.
                    temp = temp.getLeft();
63.
                    i++;
64.
65.
                 else
66.
67.
                    temp = temp.getRight();
68.
69.
70.
             }
71.
72.
          return str;
73.
74. }
75.
     /* TreeNode class for the AP Exams */
76.
77. class TreeNode
78.
79.
       private Object value;
80.
       private TreeNode left, right;
```

```
81.
        public TreeNode(Object initValue)
 82.
 83.
 84.
           value = initValue;
 85.
           left = null;
 86.
           right = null;
 87.
 88.
        public TreeNode(Object initValue, TreeNode initLeft, TreeNode initRight)
 89.
 90.
 91.
           value = initValue;
 92.
           left = initLeft;
 93.
           right = initRight;
 94.
 95.
        public Object getValue()
 96.
 97.
 98.
           return value;
 99.
100.
101.
        public TreeNode getLeft()
102.
103.
           return left;
104.
105.
106.
        public TreeNode getRight()
107.
108.
           return right;
109.
110.
111.
        public void setValue(Object theNewValue)
112.
113.
           value = theNewValue;
114.
115.
116.
        public void setLeft(TreeNode theNewLeft)
117.
118.
           left = theNewLeft;
119.
120.
121.
        public void setRight(TreeNode theNewRight)
122.
123.
           right = theNewRight;
124.
125. }
126.
```