

Homework Turnin

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Section: 6G
Course: TJHSST APCS 2016-17
Assignment: 05-03

Receipt ID: 6a8a523e240b176737096d98b5ddf33a

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

Warning: Your program failed to compile:

```
Twitter_Driver.java:4: error: package twitter4j does not exist
import twitter4j.*;           //set the classpath to lib\twitter4j-core-4.0.4.jar
^
Twitter_Driver.java:16: error: cannot find symbol
    public static void main (String []args) throws TwitterException, IOException
                                   ^
    symbol:   class TwitterException
    location: class Twitter_Driver
Twitter_Driver.java:62: error: cannot find symbol
    private Twitter twitter;
        ^
    symbol:   class Twitter
    location: class TJTwitter
Twitter_Driver.java:64: error: cannot find symbol
    private List<Status> statuses;
        ^
    symbol:   class Status
    location: class TJTwitter
Twitter_Driver.java:84: error: cannot find symbol
    public void tweetOut(String message) throws TwitterException, IOException
                                           ^
    symbol:   class TwitterException
    location: class TJTwitter
Twitter_Driver.java:96: error: cannot find symbol
    public void queryHandle(String handle) throws TwitterException, IOException
                                           ^
    symbol:   class TwitterException
    location: class TJTwitter
Twitter_Driver.java:111: error: cannot find symbol
    public void fetchTweets(String handle) throws TwitterException, IOException
                                           ^
    symbol:   class TwitterException
    location: class TJTwitter
```

```
Twitter_Driver.java:73: error: cannot find symbol
    twitter = TwitterFactory.getSingleton();
                              ^
  symbol:   variable TwitterFactory
  location: class TJJTwitter
Twitter_Driver.java:75: error: cannot find symbol
    statuses = new ArrayList<Status>();
                              ^
  symbol:   class Status
  location: class TJJTwitter
Twitter_Driver.java:115: error: cannot find symbol
    Paging page = new Paging (1,200);
    ^
  symbol:   class Paging
  location: class TJJTwitter
Twitter_Driver.java:115: error: cannot find symbol
    Paging page = new Paging (1,200);
                              ^
  symbol:   class Paging
  location: class TJJTwitter
Twitter_Driver.java:127: error: cannot find symbol
    for (Status j: statuses)
        ^
  symbol:   class Status
  location: class TJJTwitter
Twitter_Driver.java:140: error: cannot find symbol
    for(Status i: statuses)
        ^
  symbol:   class Status
  location: class TJJTwitter
Twitter_Driver.java:299: error: cannot find symbol
    Query query = new Query("Miami Dolphins");
    ^
  symbol:   class Query
  location: class TJJTwitter
Twitter_Driver.java:299: error: cannot find symbol
    Query query = new Query("Miami Dolphins");
                              ^
  symbol:   class Query
  location: class TJJTwitter
Twitter_Driver.java:301: error: cannot find symbol
    query.setGeoCode(new GeoLocation(38.8372839,-77.1082443), 5, Query.MILES);
                      ^
  symbol:   class GeoLocation
  location: class TJJTwitter
Twitter_Driver.java:301: error: cannot find symbol
    query.setGeoCode(new GeoLocation(38.8372839,-77.1082443), 5, Query.MILES);
                                                                ^
  symbol:   variable Query
  location: class TJJTwitter
Twitter_Driver.java:304: error: cannot find symbol
    QueryResult result = twitter.search(query);
    ^
```

```

      ^
symbol:   class QueryResult
location: class TJJTwitter
Twitter_Driver.java:306: error: cannot find symbol
    for (Status tweet : result.getTweets()) {
      ^
symbol:   class Status
location: class TJJTwitter
Twitter_Driver.java:310: error: cannot find symbol
    catch (TwitterException e) {
      ^
symbol:   class TwitterException
location: class TJJTwitter
20 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):

Twitter_Driver.java (9270 bytes)

```

1. //Ms. Galanos
2. //version 12.7.2016
3.
4. import twitter4j.*;           //set the classpath to lib\twitter4j-core-4.0.4.jar
5. import java.util.List;
6. import java.io.*;
7. import java.util.ArrayList;
8. import java.util.Scanner;
9. import java.util.Date;
10. import java.util.StringTokenizer;
11.
12. public class Twitter_Driver
13. {
14.     private static PrintStream consolePrint;
15.
16.     public static void main (String []args) throws TwitterException, IOException
17.     {
18.         consolePrint = System.out; // this preserves the standard output so we can get to it later
19.
20.         // PART 1
21.         // set up classpath and properties file
22.
23.         TJJTwitter bigBird = new TJJTwitter(consolePrint);

```

```

24.
25.     // Create and set a String called message here
26.
27. /*
28. String message = "I just tweeted from Java";
29. bigBird.tweetOut(message);
30. */
31.
32.
33.     // PART 2
34.     // Choose a public Twitter user's handle
35.
36. Scanner scan = new Scanner(System.in);
37. consolePrint.print("Please enter a Twitter handle, do not include the @symbol --> ");
38. String twitter_handle = scan.next();
39.
40.     // Find and print the most popular word they tweet
41.
42. while (!twitter_handle.equals("done"))
43. {
44.     bigBird.queryHandle(twitter_handle);
45.     consolePrint.println("The most common word from @" + twitter_handle + " is: " + bigBird.mostPopularWord());
46.     consolePrint.println("The word appears " + bigBird.getFrequencyMax() + " times.");
47.     consolePrint.println();
48.     consolePrint.print("Please enter a Twitter handle, do not include the @ symbol --> ");
49.     twitter_handle = scan.next();
50. }
51.
52.     // PART 3
53.     //bigBird.investigate();
54.
55. } //end main
56.
57. } //end driver
58.
59.
60. class TJTwitter
61. {
62.     private Twitter twitter;
63.     private PrintStream consolePrint;
64.     private List<Status> statuses;
65.     private List<String> terms;
66.     private String popularWord;
67.     private int frequencyMax;
68.
69.     public TJTwitter(PrintStream console)
70.     {
71.         // Makes an instance of Twitter - this is re-useable and thread safe.
72.         // Connects to Twitter and performs authorizations.
73.         twitter = TwitterFactory.getSingleton();
74.         consolePrint = console;
75.         statuses = new ArrayList<Status>();
76.         terms = new ArrayList<String>();
77.     }
78.
79.     /***** Part 1 *****/
80.     /**
81.      * This method tweets a given message.
82.      * @param String a message you wish to Tweet out
83.      */
84.     public void tweetOut(String message) throws TwitterException, IOException
85.     {
86.         twitter.updateStatus(message);
87.     }
88.
89.     /***** Part 2 *****/
90.     /**
91.      * This method queries the tweets of a particular user's handle.
92.      * @param String the Twitter handle (username) without the @sign
93.      */
94.     @SuppressWarnings("unchecked")
95.     public void queryHandle(String handle) throws TwitterException, IOException
96.     {
97.         statuses.clear();
98.         terms.clear();
99.         fetchTweets(handle);
100.        splitIntoWords();
101.        removeCommonEnglishWords();
102.        sortAndRemoveEmpties();
103.    }
104.
105.

```

```

106. /**
107.  * This method fetches the most recent 2,000 tweets of a particular user's handle and
108.  * stores them in an ArrayList of Status objects. Populates statuses.
109.  * @param String the Twitter handle (username) without the @sign
110.  */
111. public void fetchTweets(String handle) throws TwitterException, IOException
112. {
113.     // Creates file for debugging purposes
114.     PrintStream fileout = new PrintStream(new FileOutputStream("tweets.txt"));
115.     Paging page = new Paging (1,200);
116.     int p = 1;
117.     while (p <= 10)
118.     {
119.         page.setPage(p);
120.         statuses.addAll(twitter.getUserTimeline(handle,page));
121.         p++;
122.     }
123.     int numberTweets = statuses.size();
124.     fileout.println("Number of tweets = " + numberTweets);
125.
126.     int count=1;
127.     for (Status j: statuses)
128.     {
129.         fileout.println(count+" ". +j.getText());
130.         count++;
131.     }
132. }
133.
134. /**
135.  * This method takes each status and splits them into individual words.
136.  * Remove punctuation by calling removePunctuation, then store the word in terms.
137.  */
138. public void splitIntoWords()
139. {
140.     for(Status i: statuses)
141.     {
142.         StringTokenizer st = new StringTokenizer(i.getText());
143.         while(st.hasMoreTokens())
144.             terms.add(removePunctuation(st.nextToken()));
145.     }
146. }
147.
148.
149. /**
150.  * This method removes common punctuation from each individual word.
151.  * Consider reusing code you wrote for a previous lab.
152.  * Consider if you want to remove the # or @ from your words. Could be interesting to keep (or remove).
153.  * @ param String the word you wish to remove punctuation from
154.  * @ return String the word without any punctuation
155.  */
156. private String removePunctuation( String s )
157. {
158.     final String punct = ". , ! : ; \n ( ) { } [ ] < > = + - _ @ & $ % ^ # " ;
159.
160.     for(int i=0; i<s.length(); i++)
161.     {
162.         if(punct.indexOf(s.charAt(i))!=-1)
163.         {
164.             s = s.substring(0,i) + s.substring(i+1,s.length());
165.             i--;
166.         }
167.     }
168.     return s;
169. }
170.
171. /**
172.  * This method removes common English words from the list of terms.
173.  * Remove all words found in commonWords.txt from the argument list.
174.  * The count will not be given in commonWords.txt. You must count the number of words in this method.
175.  * This method should NOT throw an exception. Use try/catch.
176.  */
177. @SuppressWarnings("unchecked")
178. private void removeCommonEnglishWords()
179. {
180.     try
181.     {
182.         Scanner infile = new Scanner(new File("commonWords.txt"));
183.         ArrayList<String> commonWords = new ArrayList<String>();
184.         while(infile.hasNext())
185.             commonWords.add(infile.next());
186.         for(int i=0; i<terms.size(); i++)
187.         {

```

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188.         for(String x: commonWords)
189.         {
190.             if(terms.get(i).equalsIgnoreCase(x))
191.             {
192.                 terms.remove(i);
193.                 i--;
194.                 break;
195.             }
196.         }
197.     }
198. }
199.
200. catch(FileNotFoundException e)
201. {
202.     System.out.println("oops!");
203.     e.printStackTrace();
204. }
205. }
206.
207. /**
208.  * This method sorts the words in terms in alphabetically (and lexicographic) order.
209.  * You should use your sorting code you wrote earlier this year.
210.  * Remove all empty strings while you are at it.
211.  */
212. @SuppressWarnings("unchecked")
213. public void sortAndRemoveEmpties()
214. {
215.     terms = sort(terms);
216.     for(int i=0;i<terms.size();i++)
217.         if(terms.get(i).isEmpty())
218.         {
219.             terms.remove(i);
220.             i--;
221.         }
222. }
223. public static List<String> sort(List<String> list)
224. {
225.     for(int i=0;i<list.size();i++)
226.     {
227.         swap(list,list.size()-1-i,findMax(list,i));
228.     }
229.     return list;
230. }
231. private static int findMax(List<String> list, int n)
232. {
233.     int max = 0;
234.     for(int i=1;i<list.size()-n;i++)
235.         if(list.get(i).compareTo(list.get(max))>0)
236.             max = i;
237.     return max;
238. }
239. private static void swap(List<String> list, int a, int b)
240. {
241.     String temp = list.get(a);
242.     list.set(a, list.get(b));
243.     list.set(b, temp);
244. }
245.
246. /**
247.  * This method returns the most common word from terms.
248.  * Consider case - should it be case sensitive? The choice is yours.
249.  * @return String the word that appears the most times
250.  * @post will populate the frequencyMax variable with the frequency of the most common word
251.  */
252. @SuppressWarnings("unchecked")
253. public String mostPopularWord()
254. {
255.     frequencyMax = 0;
256.     String popular = "";
257.     int counter = 1;
258.
259.     for(int i=1;i<terms.size();i++)
260.     {
261.         if(terms.get(i-1).equals(terms.get(i)))
262.             counter++;
263.         else
264.         {
265.             if(counter > frequencyMax)
266.             {
267.                 frequencyMax = counter;
268.                 popular = terms.get(i-1);
269.             }

```

```
270.         counter = 1;
271.     }
272. }
273.     return popular;
274. }
275.
276. /**
277.  * This method returns the number of times the most common word appears.
278.  * Note: variable is populated in mostPopularWord()
279.  * @return int frequency of most common word
280.  */
281. public int getFrequencyMax()
282. {
283.     return frequencyMax;
284. }
285.
286.
287. /***** Part 3 *****/
288. public void investigate ()
289. {
290.     //Enter your code here
291. }
292.
293. /**
294.  * This method determines how many people in Arlington, VA
295.  * tweet about the Miami Dolphins. Hint: not many. :(
296.  */
297. public void sampleInvestigate ()
298. {
299.     Query query = new Query("Miami Dolphins");
300.     query.setCount(100);
301.     query.setGeoCode(new GeoLocation(38.8372839,-77.1082443), 5, Query.MILES);
302.     query.setSince("2015-12-1");
303.     try {
304.         QueryResult result = twitter.search(query);
305.         System.out.println("Count : " + result.getTweets().size());
306.         for (Status tweet : result.getTweets()) {
307.             System.out.println("@"+tweet.getUser().getName()+ ": " + tweet.getText());
308.         }
309.     }
310.     catch (TwitterException e) {
311.         e.printStackTrace();
312.     }
313.     System.out.println();
314. }
315.
316. }
317.
318.
```