Practice Timed Lab

1 Introduction

This practice timed lab will prepare you for the actual timed labs you will see in future weeks. You will have 45 minutes to complete the assignment.

2 Using the Submission Tool

Included with this timed lab is a handy-dandy submission tool. You will not submit to T-Square, but will use this instead. The commands are:

- ant or ant compile compiles your code. Basically just like running javac Redactor.java, but you don't need to specify the java file. Just run ant compile
- ant test runs the provided JUnit tests. For this practice timed lab, the output will perfectly correspond to your hypothetical grade. For actual timed labs, output will roughly correspond you can use this to see if you're doing something wrong, and get an idea of how well you're doing.
- ant checkstyle is a convenient way of running checkstyle without typing that obnoxious command.
- ant run will run the code.
- ant submit will actually submit your code to the GT Github repo. This will prompt you for your user name
 and password each time, but you can run it as many times as you want if you want to keep resubmitting as you
 make minor changes.

3 CIA Redactor

You will be building a redactor class for the CIA. We'll walk you through the process.

We've provided a Redactor class for you. Your end goal is to redact an array of documents (strings) and do so using helper methods to split up the work.

3.1

You will need to write a constructor that takes in a String[] representing the blacklist (words to be redacted from documents). Save this as instance data to use in the methods you will write now.

3.2

First, modify the method public String generateBlackout (int length) to generate a string composed of the the * character that is length long. For example, if I call generateBlackout (5), I should recieve "*****" back.

hint: use a for loop

3.3

You do not need to worry about case sensitivity. Just replace exactly the strings in the blacklist.

hint: use the method you've already written, a for loop to loop over everything in the blacklist, and check the String API for a method that would simplify replacement.

hint: Remember that strings are immutable! Methods you call on strings return new strings, they don't change the old ones.

3.4 Putting it together

Finally, we've provided the method public String[] redactDocuments (String[] documents) for you. Using the methods you've written already, transform the documents array into a redacted array. That is, create a new array of the same length, and for every item in the original array, add the redacted form of that item to the new array.

Feel free to write a main method to test your code, or use the provided tests to get a general idea of if you're doing it write by running ant test

4 Checkstyle

You must run checkstyle on your submission. The checkstyle cap for this assignment is **0** points. Review the Style Guide and download the Checkstyle jar. Run Checkstyle on your code like so:

```
$ java -jar checkstyle-6.2.1.jar *.java
Audit done. Errors (potential points off):
0
```

The message above means there were no Checkstyle errors. If you had any errors, they would show up above this message, and the number at the end would be the points we would take off.

The Java source files we provide contain no Checkstyle errors. For this assignment, there will be a maximum of $\mathbf{0}$ points lost due to Checkstyle errors (1 point per error). In future homeworks we will be increasing this cap, so get into the habit of fixing these style errors early!

5 Confirm Your Submission

Your submission was pushed to a git repository on github.gatech.edu. After running ant submit, a new browser window should open at the repository, at https://github.gatech.edu/[your-username]/[your-username]-timedlab0.5