CSCI 1103: Finale

Chris Kauffman

Last Updated: Wed Dec 13 11:03:52 CST 2017

Logistics

Date		Lecture	Outside
Mon	12/11	Recursion	Lab 14: Review
Wed	12/13	Review	P5 Due
Wed	12/20	Final Exam	1:30pm-3:30pm KELLER HALL 3-210

Goals: Review

- Wrap-up project
- Move on toe final exam review

Project 5

- Due Tonight
- Accepted as late until Friday
- Note on academic integrity
- Questions?

Final Exam

Logistics

- Wed 12/20 1:30-3:30pm
- Keller Hall 3-210 (EAST BANK)
- Comprehensive: combination of coding, analysis, short answer, full semester material may be examined
- Length: 5-6 sides of paper
 - Midterms were 3 sides of paper
- No bluebook or bubble sheet required
- Open Resource as were the midterm exams

Topics Request

Any particular topics folks would like to discuss prior to review questions?

A pet adoption agency which needs to keep records of dogs ready for adoption. The information needed is as follows:

- Name of the dog
- Age
- Whether it like cats or not

Describe a simple Dog class which has a constructor and private fields for this task.

Review Question 2: Dog Methods

Given the below Dog class, fill in bodies for the methods that need definitions.

```
public class Dog{
   private String name;
   private int age;
   private boolean likesCats;
```

```
// Retrieve the name of the dog
public String getName(){
    ???
}
```

```
// Change the name of the dog to
// the new name
public void rename(String name){
 ???
}
// Increase the age of the dog by 1
public void birthday(){
 ???
}
// Change the internal state of the
// dog so that it likes cats
public void trainForCats(){
 ???
}
```

Review Question 3: Dog Creation

Add the following method to the dog class which creates a dog based on a string of information.

```
public class Dog{
    private String name; private int age; private boolean likesCats;
```

```
public Dog(String name, int age, boolean likesCats) {
   this.name=name;
   this.age=age;
   this.likesCats=likesCats;
}
```

// Create a dog from a string of information. Use a Scanner to parse // the string argument. Valid input strings contain the Dog's name, // age, and the word yes or no depending on whether the dog likes // cats. Examples: // Dog d = Dog.fromString("Val 6 yes"); // Dog e = Dog.fromString("Stout 3 no"); public static Dog fromString(String s){ ?? }

Review Question 4: Dogs in Files

Add the following method to the dog class which creates an array of dogs from the named file.

<pre>public class Dog{</pre>					
<pre>public static Dog [] readDogsFromFile(S</pre>	String filena	me) t	hrows	Exception	
<pre>// Read dogs from the given</pre>					
// file. Count lines in the file SAMPLE FILE:					
// using a Scanner (do not assume a	Val	6	yes		
<pre>// countLines method). Allocate an</pre>	Stout	3	no		
<pre>// array of that size, reset the</pre>	Ein	4	yes		
<pre>// scanner to beginning of the</pre>	Kudjo	9	no		
<pre>// file, then read lines and create</pre>	Balto	7	yes		
<pre>// dogs in the array. Make use of</pre>	Amaterasu	100	yes		
<pre>// the Dog.fromString() method.</pre>	Во	9	no		