

NAME:

**CSIT 114: Introduction to Java Programming Part I**

Fall 2007

**Check-in 1**

DUE IN CLASS THURSDAY, 20 SEPTEMBER 2007.

*Directions:* Answer the following questions in simple, plain English. Responses should be no more than a few sentences. If an example returns an error, give a brief statement about the error including why it occurred.

You may consult online resources (such as the Java API, Eclipse help files, etc.) and printed materials as is useful, but please do not discuss your answers with any living persons, except possibly me, the instructor.

1. Explain the behavior of the Java statement `World mercury;`. In particular, what do `World`, `mercury`, and `;` mean individually? What do they mean when they appear together as they do here?
2. Explain the behavior of the Java statement `Turtle murtle = new Turtle(mercury);`. In particular, what sort of construction is the *second* instance of `Turtle` (e.g., an object, method, field) in that statement, and how can you tell? What does it do?
3. Explain the behavior of the Java statement `World new = new World();`.
4. Explain the behavior of the following block of code: (You may and should assume that earlier in the code there is a statement `import java.awt.Color;` and that a `World` object with the name `venus` exists.)

```
Turtle yertle = new Turtle(venus);
yertle.setColor(new Color(0, 255, 0));
```

If the code is valid, why does it work? If it is not, why doesn't it work?
5. Explain the behavior of the Java statement `Turtle gertle = new World();`.