Debuggginnng

The Plan

- ❖ **Define debugging**
- ❖ **Overview of how to debug**
- ❖ **Guided practice on PolarGrid.java**
- ❖ **Independent practice on RectangularGrid.java**

Debugging Defined

What it is
- ❖ **Solving runtime errors**
- ❖ **Stepping through code with anticipation**
- ❖ **Narrowing down the location of the bug**
- ❖ **Recreating the bug consistently**

What it is not
- ❖ **Fixing compilation errors**
- ❖ **Stepping though code blindly**

How to Debug

1. **Be able to recreate the bug.**
2. **Identify the last place the code reaches during correct execution.**
3. **Anticipating what should happen next and step through the code.**
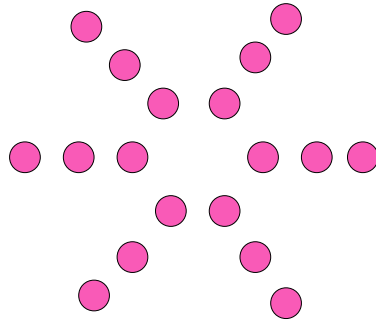4. **When the unanticipated occurs, investigate why and fix the bug.**

PolarGrid.java

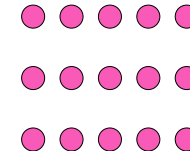**This class is intended to eventually be used to layout objects in concentric circles:**

RectangularGrid.java

This class is intended to eventually be used to layout objects in rows and columns

Practice

Guided Practice

1. **Snarf 04_buggy.jar under classwork**
2. **Run PolarGrid.java**
3. **Look over the source code for PolarGrid**
4. **Follow the in-class dealing with the bugs**

Solo (or with a partner) Practice

1. **Fix RectangularGrid.java**