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

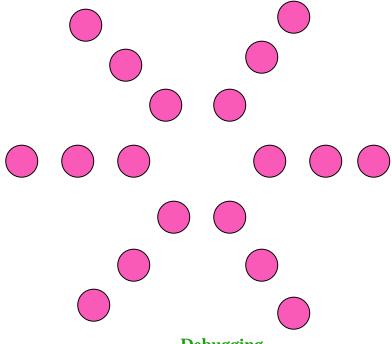
- Fixing compilation errors
- Stepping though code blindly

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:



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Rectangular Grid. 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