

Debugging

EECS 2311 - Software Development Project



Week 4

Competition

- Download the WordAnalyzer.java class from the course website
- Create a new Eclipse project for the WordAnalyzer class, and a testing class for it
- Create test cases for its methods (the specification for each method is given in Javadoc format)
- Find as many bugs as you can and fix them!
- The team with the most bug fixes wins!
- *Based on a lab exercise from Big Java by C. Horstmann*

Logging

- Print statements is a rather crude way to debug
- Instead of `System.out.println`, simply use `Logger.getGlobal().info`.
- See the API of the `Logger` class in `java.util.logging`
- You can turn off all logging with `Logger.getGlobal().setLevel(Level.OFF);`
- You can have finer-grain logging. Instead of `info`, use `fine` or `severe`

Eclipse Debugger

- Complex perspective
- Can get by with a few basic commands:
 - Set breakpoint
 - Step through
 - Inspect variables
- Demo...

Homework

- Demonstrate one test case that fails
- Set breakpoints to track execution
- Step to the problem