

Debugging

EECS 2311 - Software Development Project



Monday, March 23, 2020

Competition

- Consider the `WordAnalyzer.java` class in the debugging package of the course github repo
- Derive and run as many 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...

Lab Task

- Each member choose one of the bug reports received last week
- Set breakpoints to track execution
- Step to the problem
- Demonstrate to the TA
- Fix the bug, and update the bug report page