Debugging

EECS 2311 - Software Development Project

Wednesday, March 7, 2018

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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*

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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`

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Eclipse Debugger

- Complex perspective

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

- Demo…

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Lab Task

- Each member choose one of the bug reports received last week
  - If not enough bug reports received, create your own

- Set breakpoints to track execution

- Step to the problem

- Demonstrate to the TA

- Fix the bug, and update the bug report page

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