CS W3134: Data Structures in Java

Lecture #2: Java refresher 9/9/04
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Administrivia

- Possible recitation times:
 - Thursday after 5:30p
 - Friday between 11:00a and 5p
 - \blacksquare Monday between 9a and 10:45a; after 4p.

Agenda

- Refresher on Java, focusing primarily on OO concepts
 - Will reinforce OO concepts throughout semester, so don't worry too much
 - \blacksquare To be done on board these slides aren't significant
- Start with "Hello World" and build up from there
 - If recitation: intro refresher on using the SDK, I/O, etc.
- Lead up to using data structures
- This is intended to be interactive, not a fixed review, so if you're unsure of anything, yell!

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Java refresher ■ Hello world! ■ Explain all keywords in hello world program ■ Variables vs. methods ■ Static vs. nonstatic ■ Primitive vs. reference types ■ What's a reference? ■ .equals() vs. == ■ Assignment differences ■ Example: myInteger wraps a standard int ■ Garbage collection Java refresher (II) ■ Why static methods? Just a convenience convention ■ Primitive vs. reference types, continued ■ int vs. Integer ■ Getter/setter methods ■ Wrapper classes ■ When to use wrapper classes? Both inserting into Collections and using *static* utility methods ■ Garbage collection, reviewed ■ Strings are both? "=" overload Packages What does it mean to import? java.util.* or java.io.* ■ Exceptions ■ Javadocs, books – can't guarantee board code **Next Time** ■ Finish up Java refresher/OO concepts ■ Start looking at Lists in detail