CS251L

REVIEW

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The Fundamentals

- Sequence

- Decision

- Iteration

- Modularization (in terms of splitting code into different procedures)

JRE

- Java Runtime Environment
- Includes the 'java' executable which runs Java applications
- 'java' executable often synonymous with JVM (Java Virutal Machine)
- Does not include development tools
- Everyone in the world needs to have this installed on their computer to run Java

JDK

- Java Development Kit
- Includes everything in the JRE
- Includes developer tools like 'javac', 'jar', 'javadoc'
- http://java.sun.com/javase/downloads/

JARs

- Jave ARchive

- File format used to package and distribute java code

- Code inside either full application or library

- File format is essentially a ZIP file

- JARs contain a META-INF directory that holds java-specific metadata

Eclipse

- One of many IDEs (integrated development environment)
- The amazing tool you should learn extremely well as a Java developer
- Its goal is to accelerate software development
- Eclipse is itself written in Java with some platform dependent components for performance
- Extremely well designed component-based architecture

Eclipse

- Things to know
  - Workspace vs. project
  - Perspectives and views
  - Eclipse preferences
  - Creating a new project
  - Importing and exporting
  - Creating Java packages
  - Managing your build path

Eclipse

- Things to know
  - Accelerators on Source and Refactor menus
  - Hot key accelerators in editor windows
  - Build operations
  - Run/debug menu
  - Problems and Console views