

Mid-Term Exam Review Topics

Thinking in Java, Chapters 1-9, 14

9 sets of lecture notes handed out in class, 2 quizzes

Java topics covered:

- packages and name spaces
- classes, class modifiers (e.g., public, private, final)
- scope access rules (public, private, protected, and “default or friendly” package access)
- primitive data types
- reference data types
- static class variables and methods
- the Object class, object creation, destruction by garbage collection, finalize method
- arrays, array operations, vector class
- subclassing and inheritance
- overriding methods
- interfaces and interface inheritance
- separation of interface from implementation
- simple input/output streams
- the Socket class and use of sockets
- threads and concurrent programming concepts
- the Thread class and Runnable interface
- using threads and synchronized methods
- wait, notify, and notifyAll
- exceptions and exception handling