Final Exam Review Topics
Fall 2015
Exam technical details

• When: Friday, December 18th @ 8am (!)
• Seats are assigned
• Up to five pages of notes allowed
  – 8.5x11 paper (double sided is fine). Typed or handwritten.
• No electronic devices
  – Including calculators, watches, iwatches, phones, laptops, tablets, ...
• Mostly multiple choice
• Can grade multiple choice as you exit the exam
Topics from Exams 1&2 Are Still In Play

Exam 1:
• Basic OOP
• Inheritance
• Polymorphism
• Overriding vs overloading
• Abstract classes and interfaces
  – Comparable vs Comparator
Topics from Exams 1&2 Are Still In Play

Exam 2:
• Generics
• Java Collections Framework
• Enums
• Graphical User Interfaces
  – JFrame, JPanel, JButton, JRadioButton, JLabel, JTextField
  – Layout managers
Graphics

Low-level mechanisms that allow a Component to draw itself

• Basics of the Graphics class: drawing lines and strings, defining color
• repaint() vs paintComponent()
Event-Driven Programming

- Button presses (Action events)
- Keyboard events
- Mouse events
- Timers
Recursion

• Breaking big problems into smaller problems
• Defining base and recursive cases
• Recursion vs iteration
Ethics

• Basics of the different ethical theories
• Ethical principles & their sources
• Apply ethical principles and rules to novel problems of privacy and property

Same form as the labs