Time and Place

• Exam. Date: Thursday MAY 5
  – 2:00 PM – 4:00 PM
  Room: SB112j (REGULAR CLASSROOM)
Final Exam - Topics

- INHERITANCE / ABSTRACT CLASSES
- POLYMORPHISM/INTERFACES/MULTIPLE INHERITANCE
- ERROR HANDLING USING EXCEPTIONS
- I/O USING STREAMS (open files for reading/writing)
  - Text files
  - Binary data
  - Serializable Objects
- RECURSION
- SELECTION SORTING ALGORITHM
- SEQUENTIAL AND BINARY SEARCH
TEXT CHAPTERS COVERED

• Chapter 8 (only array search and selection sort)
• Chapter 10
• Chapter 11
• Chapter 13
Lectures Notes

• Lecture 4
• Lecture 6
• Lecture 7
• Lecture 8
• Lecture 9
• Lecture 10
• Lecture 11
• Lecture 12
• Lecture 13
Labs & Exercises

• Concepts from Labs: 3,4,5,6,7,8
• Extra Credit Exercises 4, 5, 6,7, 8
Exam Format

• Same as midterm
  – Two Parts
    • Part A Programming
    • Part B Theory
  – Closed Book /Closed Notes
  – It is worth 30 points
  – Majority of the points for Part A (programming)
Suggestions

• Emphasis will be on:
  – Inheritance principles.
  – Writing serializable objects into a file and reading serializable objects from a file.
  – Writing into a text and binary file
  – Reading from a text and binary file
  – How to handle exceptions (Error Handling). Creating your own exception class and using it in another program.
  – Recursion
    • What is the base and general case?

• However, you should know how things like arrays, vectors, ArrayList, String work.
Suggestions

• Part A:
  – Programming assignment
  – Work systematically – class by class
  – If you get stuck – move on

• Part B:
  – Multiple choice/true of false
  – Short answers such as
    • write a piece of code such as a recursive method
    • Figuring out the output
EXAM RULES

• USE THE COMPUTER STATION (NOT A LAPTOP).
• ONLY OPEN APPLICATIONS ALLOWED:
  – NOTEPAD++
  – DOS command prompt
• DO NOT BRING FLASH DRIVE TO CLASS!!!!
• DO NOT EMAIL! DURING THE TEST!!
• DO NOT USE THE INTERNET DURING THE TEST!
• IF ANY OF THE ABOVE IS VIOLATED YOU COULD RECEIVE A ZERO FOR THE EXAM. AND FINAL GRADE FOR THE COURSE!