Contents

The exam will cover everything we have seen so far in the course. However, it will strongly emphasize things seen since the first midterm.

2D Arrays
- Creating
- Accessing
- Searching
- Usage in context of a programming problem

Java Memory
- Call Stack
- Heap
- Reference types
- Pass-by-value

Object-Oriented Principles
- Purpose of OOP
- Class design
- Abstraction/Encapsulation

Classes & Objects
- Constructors
- Instance variables & methods
- Static variables & methods
- Accessors & mutators
- Arrays of Objects
- Objects as arguments to methods
- 'this' keyword
- Scope
- Composition

Inheritance
- Subclassing
- Overriding
- 'super' keyword
- java.lang.Object

Misc
- String methods
- Primitive wrappers
- Immutability
- Stack data structure

Format

The exam will be similar to format to midterm 1.

Question Types
- Programming Questions (You write code by hand)
- Code Reading (Read some code and determine its function)
- Short Answer (You answer conceptual questions using English and maybe some code)
- True/False

No cheat sheet will be allowed on this exam. The final may or may not allow a cheatsheet.