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
• 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
• Object

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

Format

The exam will be similar to format to midterm 1, plus an additional question type.

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, that is TBD.