

CSE 142 Final Exam Topic List – March 10, 2004

Here is a brief checklist of the additional topics that have been covered since the second midterm and might appear on the final exam. You remain responsible for everything earlier in the course, but topics since the second midterm will be emphasized somewhat more heavily..

- Arrays
 - Creating arrays
 - Accessing and changing array elements, subscripts []
 - Using .length to get the length of an array
 - 2-D arrays
- Using arrays to implement list collections
- Basics of inheritance
 - “is-a” vs “has-a” relation between classes
 - Superclass/subclass terminology
 - Extending classes
 - Overriding methods
 - Relationship between items declared in superclass and subclass
 - Constructors in subclasses; super(...) in subclass constructors
 - Static (declared) vs dynamic (runtime) types; type compatibility
 - Dynamic dispatch – which method gets called
 - Class Object – the root class of the inheritance hierarchy
- Static variables and methods
 - Static variables belonging to classes vs non-static belonging to instances
 - Symbolic constants – static final variables
 - Static methods
 - What “public static void main” really means – role of main methods in programs
- Searching
 - Linear search
 - Binary search
- Sorting
 - Selection sort
 - Insertion sort