

CS112 Final Exam Study Guide

Final Time:

May 27, 2008, Tuesday, 12:15 pm (duration is about 2 hours)

Exam Rooms:

SAZ01: Students with last names [A.., Kara..], Proctor: Özgür Bağlıoğlu

SAZ18: Students with last names [Kaya.., Z..], Proctor: Süleyman Kardaş

Other Information

1. **Closed book exam:** You can bring one page - handwritten notes with you. It must be your own notes and cannot be a photocopy.
2. **Chapters covered from the textbook:** Chapters [6, 14], [17, 18]. Read the chapters as we have covered them in the class.
3. **No. of Questions and Style:** Approximately 8 questions. They may involve writing a short program, completing the missing parts of a program, determining program output, etc. More emphasis will be given to the topics that we have covered after the midterm exam (please see below).
4. **Topics Covered Include (an incomplete list)**
 - Classes
 - Objects (class instantiation)
 - Class member methods, formal parameters/arguments, actual parameters/arguments, local variables, static variables, etc.
 - Constructors versus other methods of a class
 - Method overloading and overriding
 - Public interface: a classes public methods
 - Private members vs. public members, their differences, and the concept of encapsulation
 - Reference variables
 - The new operator: its use in object and array creation
 - Arrays, two-dimensional arrays
 - Passing arrays to methods (concepts of call-by-reference and call-by-value)
 - Array of objects
 - Sorting and searching
 - Classes we covered in classroom/labs
 - Strings and I/O ◀ so far all midterm topics
 - Inheritance and polymorphism
 - Abstract classes
 - Interfaces
 - Exception handling (writing your own exception class etc.)
 - Simple I/O streams
 - GUI
 - Event-driven programming