Computer Science 48
Computer Science Project

- Pre-requisites: CS 32, and 56 (ok concurrent)
- Designed for CS majors
- Basic theme: programming “in the large”
  - Includes working within a group
  - Focus is on object-oriented analysis (OOA) and object-oriented design (OOD)
  - Practice to implement/test large(r) systems
Individual part and group part

- Overlapping parts 1 and 2 – not sequential
- Part 1 – learn about programming projects
  - Includes lectures, reading, exam
    - Development Processes
    - Requirements Analysis
    - Domain Analysis
    - System Design
    - Implementation and Testing
- Part 2 – participate in a programming project
  - Complete several assignments as part of a group (“team”)
About the group projects

- **Group sizes:** mostly 5 people (rarely 4 people)
  - Note: groups finalized during the first discussion!
- **Project topic:** your choice, subject to approval
- **Expected complexity:**
  - 20-25 key concepts in the problem domain
    - Note: concepts are classes (and interfaces) in C++, Java, …
  - Interesting relationships between the concepts
  - Lines of code will *not* be counted
    - But anticipate at least 5,000 lines of well-written code
Requirements and assessment

- You must monitor the course web pages: http://www.cs.ucsb.edu/~mikec/cs48
- **Group project assignment scores** – 50% of grade
  - Scores apply equally to all members of a given group
- **Group project teamwork credit** – 25% of grade
  - Based on recommendations of other team members
- **Exam** – 25% of grade
  - No “final exam” – just a late-quarter midterm
- Questions?
To Do – first week

- Attend *mandatory 1st discussion section*
  - Note: probably just group/TA meetings instead of discussion sections in future weeks
- Get required Reader – SBPrinter: UCEN
- Read items 1-4 (≈60 pgs.) for next lecture
  - In general, read ahead of the lectures
- And attend lecture of course 😊