CS 290 - Object-Oriented Design
Spring 2009 - Final Exam Review Sheet

Reminders:

- Tuesday, April 28, has been set aside as a review for the exam. We will go over some sample problems and answer any questions you have about the material.
- Project 6 is due at the beginning of the final exam, Wednesday, May 6, 8:00am. NO LATE WORK will be accepted.
- The instructor expects to post scores for Project 6 and the Final Exam on Blackboard, and final grades on WebAdvisor late afternoon on Thursday, May 7.

The Final Exam will be on Wednesday, May 6, 8:00am-10:00am. It is closed book, closed notes.

The exam will be cumulative and comprehensive. The exam will consist of questions similar to previous exams. In particular, you should be able to do the following.

- Identify a design pattern given its intent
- Identify a design concept given its definition
- Compare and contrast design or implementation concepts
- Explain how design concepts are used and give examples
- Declare and use Java code constructs; implement Java classes
- Explain how C++ provides polymorphic objects

There will not be questions on Objective C or Smalltalk. Some of the questions will be the same as those on previous exams to give students another chance to demonstrate they understand the earlier material.

Consult previous exam review sheets for previous topics. The following is a list of topics since Exam 2 that will be emphasized, but it is in no way to be construed as an exclusive list.

1. Definition and use of the following design patterns: Decorator, Proxy
2. Declaration and use of C++ constructs used to implement polymorphic objects. You will not be asked to implement full C++ classes, but you should know how to define a polymorphic class in C++ and how to use instances of such a class to obtain polymorphic behavior.