Overview of Week 10

#	DATE	LECTURES	IPAD NOTES	STUDY MATERIALS
10		Playlist for Week 10 (≈ 3 hours) Lecture 10 - Introduction and Overview of Week 10 Lecture 10a - Part 1a: Require Less vs. Require More Lecture 10a - Part 1b: Ensure Less vs. Ensure More Lecture 10a - Part 2a: Inheritance & Contracts - Static Analysis Lecture 10a - Part 2b: Inheritance & Contracts - Examples Lecture 10a - Part 3: Inheritance & Contracts - Runtime Checks Lecture 10b - Part 4: Two Design Attempts for Recursive Systems Lecture 10b - Part 5: Multiple Inheritance Lecture 10b - Part 6: Composite Design Pattern	INTRO PRE POST	Slides Lecture 10a: Subcontracting Lecture 10b: Subcontracting [4up] Lecture 10b: Composite Design Pattern Lecture 10b: Composite Design Pattern [4up] Diagrams Design Architecture: Subcontracting Design Diagram: Composite Design Pattern Design Diagram: Multiple Instantiations of Composite Pattern Questions? Post Your Questions in this Document. Source Code Contract Redeclaration (Supplementary to Slides) Composite Design Pattern

Learning Objectives of Week 10

- Subcontracting: Static Analysis vs. Dynamic Checks
- Recursive Systems Base Cases vs. Recursive Cases

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- Design Attempt 1: Violating Cohesion
- Design Attempt 2: Violating Single Choice Principle
- Multiple Inheritance
- Design Attempt 3: Composite Design Patrern

Milestones of Week 10

- Work on Project
- Complete Quiz9
- Start Lecture Series W10