

Overview of Week 4

#	DATE	LECTURES	IPAD NOTES	STUDY MATERIALS
4	WED, Sep 30 to TUE, Oct 6	<p>3 hours - [WK] [1.5]</p> <p>▶ Playlist for Week 4 (≈ 3.3 hours)</p> <ul style="list-style-type: none"> Lecture 4 - Part 0: Introduction and Overview of Week 4 Lecture 4a - Part 1a: Design Diagrams - Classes, Routines Lecture 4a - Part 1b: Design Diagrams - Client-Supplier vs. Inheritance Relations Lecture 4b - Part 2: Postcondition Exercise - Asserting Set Equality Lecture 4b - Part 3a: Math Review (Self-Guided), Example REL Operations Lecture 4b - Part 3b: Creating an Abstraction of a Birthday Book Lecture 4c - Part 4a: Information Hiding, Iterator Design Pattern - Supplier Lecture 4c - Part 4b: Information Hiding, Iterator Design Pattern - Client 	<p>INTRO</p> <p>PRE</p> <p>POST</p>	<ul style="list-style-type: none"> (Optional) Tutorials <ul style="list-style-type: none"> Generic Parameters and the Iterator Pattern Information Hiding and the Iterator Pattern Making a Birthday Book (implemented using HASH_TABLE) ITERABLE Slides <ul style="list-style-type: none"> Lecture 4a: Drawing a Design Diagram Lecture 4a: Drawing a Design Diagram [4-up] Lecture 4b: Case Study - Abstraction of a Birthday Book Lecture 4b: Case Study - Abstraction of a Birthday Book [4-up] Lecture 4c: Design Pattern - Iterator Lecture 4c: Design Pattern - Iterator [4-up] Exercise: Architecture & Generis Questions? <ul style="list-style-type: none"> Post Your Questions in this Document. Diagrams <ul style="list-style-type: none"> All example BON diagrams (PDFs) from the slides Design Diagram: Iterator Pattern Iterator Pattern at Runtime Source Code <ul style="list-style-type: none"> Specifying a Birthday Book using the MATHMODELS library (and exercises) Motivation Example of Iterator Pattern (Starter)

Learning Objectives of Week 4

- Drawing a Design Diagram
- Abstraction Function for a Birthday Book
- Iterator Design Pattern: Supplier vs. Client
- Exercise: Architecture & Generics

↳ O&A .

Milestones of Week 4

- Start Lab2 .
- Complete Quiz3 (based on lecture series W3)
- Start Lecture Series W4 .