## Overview of Week 7

| 1 | 716                                   | VIEW OI WEEK /   |                       |  |  |   |  |  |  |       |  |             |                       |                      |         |      |  |
|---|---------------------------------------|--|-----------------------|--|--|---|--|--|--|-------|--|-------------|-----------------------|----------------------|---------|------|--|
| # | DATE                                  | LECTURES   | IPAD<br>NOTES         |  |  |   |  | S  | TUDY   | Матей | RIALS  |             |                       |                      |         |      |  |
| 7 | WED,<br>Oct 28<br>to<br>TUE,<br>Nov 3 | <ul> <li>Lecture 7 - Introduction and Overview of Week 7</li> <li>Lecture 7 - Part 5 Static Type vs. Dynamic Type, Expectations</li> <li>Lecture 7 - Part 6: Intuition - Polymorphism vs. Dynamic Binding</li> <li>Lecture 7 - Part 7: Multi-Level Hierarchy - Ancestors vs. Descendants</li> <li>Lecture 7 - Part 8: Rules of Substitutions, Change of Dynamic Type</li> <li>Lecture 7 - Part 9: Type Casting, Runtime Assertion Violations</li> <li>Lecture 7 - Part 10: Polymorphic Feature Arguments: Supplier vs. Client</li> <li>Lecture 7 - Part 11: Polymorphic Collections</li> <li>Lecture 7 - Part 12: Polymorphic Return Values, Concluding Remarks</li> </ul> | INTRO  Soft PRE  POST | • Slides • La • W • Diagr • In • Quest • Exerce • Exerce • R • R | he Eifs secture vritte rams herita tions? ost Yo sises xercis ce Coo agmen | 7: Inho<br>Notes<br>Inho<br>In Notes<br>Ince High<br>Ince Hig | eritance ritance stions ritance d Executions | ce (expce | panded<br>panded<br>es, Dy<br>martp<br>s Docu<br>rring l<br>1: Exp<br>m and<br>2: Crea |       | W6) [4<br>Types<br>lasses<br>tions<br>W6's dic bind<br>w pro | from design | Stati<br>to re<br>rom | ic Typeeprod<br>W7's | duce to | ıre. |  |
|   |                                       |  |                       |  |  |   |  |  |  |       |  |             |                       |                      |         |      |  |

## Learning Objectives of Week 7

- Static Types, Expectations, Polymorphism
- Dynamic Types, Dynamic Binding
- Type Casting Motivation, Upward/Downward, Runtime
- Polymorphic Arguments and Return Values
- Polymorphic Collections

## Milestones of Week 7

- Study ETF Tutorial Videos
- Work on Lab\*
- Complete Quiz6
- Start Lecture Series W7