

Object-Oriented Programming 4th Weekly Note (E12, Week 48)

Reading for Week 48

Sections 7.1, 7.2.1, 7.2.3–7.2.4, 7.3.1–7.3.4, 7.4, 7.5.1–7.5.2, 9.1.1–9.1.2, and 9.2 of “Introduction to Programming Using Java”

Lecture: Monday, November 26, 12-14 (U91)

We will introduce the concept of an abstract data type and look at the list ADT and several implementations.

Lecture: Wednesday, November 28, 12-14 (U20)

First we will refresh and deepen our understanding of recursion. Then we will transfer the idea of recursion from recursive algorithms to recursive data structures. We will see how a simple recursive data structure can provide another interesting implementation of the list ADT.

Lab: see detailed schedule on course home page

Solve Exercises 7.2 and 7.6 (using `Scanner` and `PrintStream` instead of `TextIO`) from the course book. Then solve Quiz 9.3 followed by Exercise 9.3. If you are fast, also solve Exercise 7.3.