Object-Oriented Programming 4th Weekly Note (E13, 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 25, 08-10 (U27)

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.

Discussion: see detailed schedule on course home page

Meet in the assigned room.

Take the Quizzes 1, 5, 6, 7, 8, 9, 10, and 12 from Chapter 6 of the course book and discuss them in groups of 2 or 3. Then discuss your answers with the other groups.

Then go together through the full example of Section 6.7.4 of the course book. Discuss all details of the implementation in CalcPanel.java until you understand them. The file CalcPanel.java is available from:

http://imada.sdu.dk/~petersk/DM537/programs/CalcPanel.java

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.