**Session 24:**

**Recursion and Generics**

**Concepts:** Recursion, call stack, tail recursion, generics

**Intended learning outcome**

* Can explain the idea of recursion
* Can sketch the sequence diagram for a recursive method
* Can draw the call diagram for a recursive method
* Can implement and debug a recursive method
* Can explain the big picture about time complexity
* Can convert an algorithm with tail recursion to one with a loop
* Can use some of the advanced Generics features in Java

**Litterature:**

Carrano: Chapter 7, Interlude 3