

CSC 210 WEEK 3 QUIZ STUDY GUIDE

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Know the definitions of, and be able to explain the following concepts: data types, interfaces, anonymous classes, lambda expressions, lists, sets and maps.

The difference between lists and sets; the two approaches of implementing lists: contiguous allocation and linked allocation, their relative advantages and disadvantages.

The *Comparable* and *Comparator* interfaces; definition of streams, intermediate operation and terminal operations, reductions.

Be able to name several ways of creating streams, and be able to give examples of both intermediate and terminal operations on streams.

Be able to define stacks and queues.

Binary trees: definition, and be able to write code to perform binary tree traversals, and other operations such as counting the number of nodes and number of leaves, determining the height of a binary tree, etc.

Be able to write code for operations on linked lists such as those in Homework 2.