CSCI-1200 Data Structures — Spring 2014 Lab 9 — Maps I

This lab gives you practice initial practice in working with the STL associative container, maps. No downloads are needed until Checkpoint 3.

Checkpoint 1

Write a program from scratch that uses a map to find all the modes in an input sequence of integers. Remember, a mode is an integer that occurs at least as many times in the sequence as any other integer. Thus, in the sequence

the two modes are 19 and 45. Include one command-line argument to provide an input file. Use operator[] for maps when inserting values.

To complete this checkpoint: show a TA your debugged implementation and how it runs correctly on several interesting test cases.

Checkpoint 2

Rewrite your program from checkpoint 1 to use find or insert or both instead of operator[].

To complete this checkpoint: show a TA your revised and tested program.