## CSCI-1200 Data Structures — Fall 2016 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

19 83 -12 83 65 19 45 -12 45 19 45

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.