CSCI-1200 Data Structures — Fall 2013
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.