**CPSC 1070   
Exam 2 Study Guide**

This is a study guide to help you focus on the concepts that will be tested. You are responsible for all material covered in class.

Exam 2 will cover material that we have discussed in class and/or used in homework and labs since the last exam. This includes the following topics:

* gdb
* Valgrind
* function pointers: be able to
  1. declare a function pointer
  2. assign a function to a function pointer
  3. invoke (call) a function via the function pointer
* structs: be able to
  1. define a struct
  2. define a pointer to a struct
  3. access members of a statically allocated struct
  4. access members of a dynamically allocated struct
  5. pass structs as parameters (either as value or pointer parameters)
* linked lists: be able to
  1. write any of the linked list functions
  2. create an empty list and add elements to the list
  3. write code to process each element of a linked list
* 2-Dimensional arrays
  1. be able to declare a 2-dimensional array using array notation and using pointers.
  2. be able to write a function prototype that has a 2-dimensional array as a parameter

Review the notes 9/20 - 10/6; homework 2; lab 6

Obviously all of the above are dependent upon the material we covered at the start of the course, so knowledge of basic C concepts such as pointers, variables and basic C statements will be assumed.