## CPSC 3125, Operating Systems Homework 21

Chapter 27, Operating Systems, Three Easy Pieces

## Readings

Read chapter 27 in the Operating Systems, Three Easy Pieces book.

## **Discussion Questions**

Answer the discussion questions in writing.

- 1. What are the arguments to pthread\_create()? What is the return value? What does this function do?
- 2. What are the arguments to pthread\_attr\_init()? What is the return value? What does this function do?
- 3. What might be some of the problems when a multi-threaded program returns indeterminate results? There are at least two specific ones mentioned in this chapter. Please be specific in your answer.
- 4. What are the arguments to pthread\_mutex\_lock()? What is the return value? What does this function do?
- 5. What are the arguments to pthread\_mutex\_trylock()? What is the return value? What does this function do?
- 6. Give a simple definition of condition variable? Why do we have condition variables?
- 7. When using gcc to compile a multi-threaded program, what flag do you need to include on the command line? What header does your program need to #include?