

# Advanced Programming

## COEN 11

### Lab 10

# Lab 10

## ❑ Modify your program for lab 9

- Have an auto-saver thread to save the info from the list to a text file every 5 seconds.

## ❑ Your thread is in a loop forever.

- It sleeps for 5 seconds
- When it wakes up, it opens the file and traverses the list, writing the info to the file.
- Then closes the file and sleeps again.

# Lab 10

- ❑ The list is shared, need a lock when
  - changing the list
  - handling to the auto-saved file
  - canceling the auto-saver thread
- ❑ Cancel the auto-saver thread before you save the list at the end
  - Use the lock to guarantee that you are not in the middle of saving the data to the text file when you cancel the thread.

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## □ File Requirements

- The name of the auto-saved file is "auto-save.txt"
- The file should be a text one

# Lab 10

- ❑ Library

  - pthread in the linux system

- ❑ Include

  - <pthread.h>

- ❑ Compile with the following option

  - lpthread

- ❑ Use makefile to compile and run your program