



Advanced Programming

COEN 11

Lab 10



Lab 10

- List of tasks
- Extension of lab 9
 - Have an autosaver thread
 - Include an option to see the contents of the autosaved file
- Due in week 10



Adding to the functionality of Lab 9

The list is created interactively with the following commands:

- 1 <task> <prio> <hour> <min> <extra info according to the hour>
 - Same as lab 9
- 2, 3
 - Same as lab 9
- 4 <task>
 - Same as lab 9
- 5
 - Same as lab 9
- 6
 - (New!) Show the contents of the binary file
- 0
 - Same as lab 8, but cancel the thread before saving the data the text file



Requirements

- Main creates a **thread** to save the nodes in the lists to a **binary file** every **5 seconds**
- In **option 6**, a function **reads** the binary file and **show** the contents of each node read on the screen
- The **main** and the **autosaver threads** will **share** the **list** and the **binary file**. Use a **mutex lock** to protect access to the **list** and the **binary file**



More Requirements

- The name of the binary file will be given in `argv[2]`
- Before quitting
 - Cancel the autosaver thread
 - Before canceling, `lock`
 - After canceling, `unlock`



Grading

- Pre-lab
 - List of places that require locking/unlocking – 10%
- In the lab
 - Demo to the TA – 30%
 - Submit your code to Camino – 60%