



Advanced Programming

COEN 11

Lab 7



Lab 7

- List of tasks
 - Use an **ordered linked list**
 - Sort by **hour** and **minutes** (earlier to latest)
 - Due in week 7



Lab 7

- Changing some functionality of Lab 6
 - The list is created interactively with the following commands
 - 1 <task> <hour> <min> <extra info according to the hour>
 - Same as lab 6, but add to the right spot
 - 2, 3
 - Same as lab 6
 - 4 <task>
 - Delete the specified task
 - 0
 - Save all data to a text file
 - Deletes all the nodes
 - Quits



Requirements

- The list will be kept **in order** according to the hour and minutes, earlier to latest
- Functions **insert** and **delete** need to change
 - Insert at the right spot
 - Delete the task specified
- **Save at the end**
 - Before quitting, all the data is saved to a text file named "ouput"
 - After saving, all the nodes are freed



More Requirements

- The info should be saved in a text file according to the following format:

task1 h1:m1 extra1

task2 h2:m2 extra2

- It should be possible to read the file with commands such as `cat` and `more`



More Requirements

- 8 functions
 - main, insert, list, listbytime, delete, check_duplicate
 - two new functions
 - save_to_file
 - delete_all_nodes
- Global variables
 - 1 pointers: head



Grading

- Pre-lab
 - Pseudocode of the delete_all function – 10%
- In the lab
 - Demo to the TA – 30%
 - Submit your code to Camino – 60%