Advanced Programming
COEN 11

Lab 3

Lab 3

- List of tasks
  - Keep the list sorted by time (hour, min)
  - Include an option to delete tasks
  - Due in week 3

Lab 3

- Adding to the functionality of Lab 2
  - The list is created interactively with the following commands
    - 1 <task> <hour> <min>
      - Insertion is now in order by the hour and minutes
    - 2, 3
      - Same as in lab 2 (order is now by the hour,min)
    - 4 <task>
      - Delete the task given
    - 0
      - Quits

Requirements

- **Do not allow tasks to repeat**
  - Add a function to check for repetitions
  - The function receives the task as an argument
  - The function returns zero (not found) or one (found)

- **List mechanism, same**
  - Your list should stay in order by the time (hour,min)
    - Always insert a new entry at the right spot, shift down to make space
    - Always shift entries up when deleting one

More Requirements

- **6 functions**
  - main, insert, list, listbytime, delete, check_duplicate

- **4 global variables**
  - 3 arrays: tasks, hours, minutes
  - counter

- **Show hour and minutes as x:xx**
  - Use **%d:%02d**

Lab 3

- Grading
  - Pre-lab
    - Test plan – 10%
  - In the lab
    - Demo to the TA – 30%
    - Submit your code to Camino – 60%