Advanced Programming
COEN 11

Lab 4

Lab 4

- List of tasks
  - Use an **array of structs**
  - Use a pointer to traverse the array in **list** and **listbytime** functions
  - Include an option to delete tasks at a specified hour
  - Due in week 4

Lab 4

- Adding to the functionality of Lab 3
  - The list is created interactively with the following commands
    - 1 <task> <hour> <min>
      - Same as lab 3
    - 2, 3
      - Same as in lab 3
    - 4 <task>
      - Same as in lab 3
    - 5 <hour>
      - Delete tasks at the specified hour
    - 0
      - Quits

Requirements

- 7 functions
  - main, insert, list, listbytime, delete, deletebyhour, check_duplicate

- All functions need to be changed to use the array of structs

- Functions **list** and **listbytime** need to use a pointer in the traversal

- Function **deletebyhour** should stop the traversal when the hour is greater than the hour specified by the user

More Requirements

- **2 global variables**
  - 1 array of structs
  - counter

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

- **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 tasks

Grading

- Pre-lab
  - Pseudocode for the **deletebyhour** function – 10%

- In the lab
  - Demo to the TA – 30%
  - Submit your code to Camino – 60%