

Advanced Programming COEN 11

Lab 3

Lab3

Urgent Care, Waiting List

- Change lab 2 to use an array of structures
- Due in week 3

Lab3

Same functionality as Lab 2, but add two more commands

- The waiting list is created interactively with the following commands
 - 1, 2
 - Same as in lab 2 (for 2 you need to check the values)
 - 3 <dept>
 - Remove the oldest item with the dept given
 - 4 <dept>
 - Show the entries in the list that matches the dept
 - 0
 - Quits

Lab3

Requirements

- Main: loop forever accepting commands, same
- Do not allow names to repeat
 - Add a function to check for repetitions
 - The function returns zero or one
- 6 functions
 - main, insert, show, remove, show_dept, check_duplicate
- List mechanism, same
 - Your list should stay in the oldest-to-newest order
 - Always insert a new entry at the bottom
 - Always shift entries up after removing one

Lab3

New requirements

- Global variables
 - array of structs
 - counter
- Use a struct pointer to traverse the array in each function

Lab 3

Grading

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