Advanced Programming
COEN 11

Lab 4

Lab 4

Urgent Care, Waiting List

- Change lab 3 to use an array of structs with unions
  - Include a union in your struct
  - Depending on the dept, keep one of the following for a patient:
    - 1: Fever (float)
    - 2: Kind of pain (string)
    - 3 and 4: Number of days sick (int)
- Due in week 4

Lab 4

Same functionality as Lab 3, but add one more command

- The waiting list is created interactively with the following commands
  - 1, 2, 3, 4
    - Same functionality as in lab 3, but include the union
  - 5 <name>
    - Show corresponding info
  - 0
    - Quits

Lab 4

Requirements

- Main: loop forever accepting commands, same
- 7 functions
  - main, insert, show, remove, show_dept, check_duplicate, show info related to the given name
- 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

Lab 4

New requirements
- Global variables
  - one array of structs, with unions
  - counter
- Use a struct pointer to traverse the array in each function

Lab 4

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