

# **Advanced Programming COEN 11**

Lab 4



#### Lab 4

## Restaurant Reservations, extra information

- Change lab 3 to use an array of structs with unions
  - Include a union in your struct



## Lab 4

- · Restaurant Reservations, extra information
  - Name
  - Size
  - · Special occasion
    - 1 Birthday
    - 2 Anniversary
    - Otherwise No special occasion
  - Extra info, depends on special occasion
    - 1 birthday person's name

    - 2 number of yearsOtherwise Average age of group



#### Lab 4

- Menu -- commands
  - - Include special occasion category and extra info
  - 2, same
  - - Need to add special occasion and extra info
  - -4, same
  - 0, same



#### Lab 4

- · Your program has 1 array of structures
  - Each struct has four members
    - name char array
    - size int
    - special occasion int
    - extra\_info union (type depends on special occasion)
      - Each union has three members
        - » 1 name, string
        - > 2 years, int
        - » Otherwise average age, float



## Lab 4 - Requirements

- Global variables
  - 1 array of structures
    - one of the members in the struct is a union
  - Counter
- 5 functions, same
  - main, insert, delete, show, check\_size, check\_duplicate



### **Grading**

- Pre-lab
  - -No pre-lab this time
- In the lab
  - -Demo to the TA 40%
  - -Submit your code to Camino 60%



#### End

Lab 4