**Advanced Programming
COEN 11**

Lab 2

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Lab 2 - Waiting List

- Restaurant Reservations, Waiting List
  - You were hired by a restaurant to implement a waiting list system for table reservations.
  - Due on week 3 on your lab day

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- The waiting list is created interactively with the following commands
  - 1 <name> <number>
    - Adds the *name* and *number* of people specified to the bottom of the list. Don't worry with duplicates.
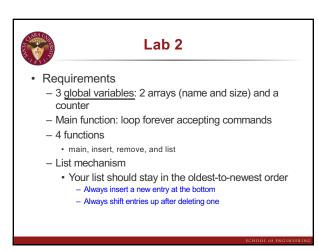 - 2 <size>
    - Removes (show and delete) oldest entry that fits the size of the opening. Move requests up.
  - 3
    - Shows the list, name and number, from oldest to newest
  - 0
    - Quits

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- Requirements
  - 3 global variables: 2 arrays (name and size) and a counter
  - Main function: loop forever accepting commands
  - 4 functions
    - main, insert, remove, and list
  - List mechanism
    - Your list should stay in the oldest-to-newest order
      - Always insert a new entry at the bottom
      - Always shift entries up after deleting one

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

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END

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