Advanced Programming
COEN 11

Lab 5

Lab 5

- Surf School Waiting List
  - Using a linked list
    - Each node has a name and the number of people in the group

Lab 5

- Extend lab 3
  - Same options
    - 1, 2, 3, 4, 0 → same interface and functionality

  - <u>Attention</u>: do not work on lab 4. Go back to lab 3.

Lab 5

- Do not allow names to repeat
  - Check the list before inserting
- Keep your list in the oldest-to-newest order
  - Always insert a new entry at the end
  - Use a tail pointer pointing to the last node
- To delete
  - Keep traversing the list while there is space
  - Rearrange the list every time a node is removed
- To search and show
  - Traverse the list using the pointers

Lab 5

- Requirements
  - 1 linked list
    - 2 global variables: **head** and **tail**
  - 6 functions:
    - main, insert, delete, show, search_size, check_duplicate

Lab 5

- To receive full credit
  - Pre-lab
    - Cases for insert and delete
  - Demo
    - Show the TA
      - insert 4 items
      - delete the one in the middle, the first, and the last
      - delete the nodes left, until it's empty
      - Delete a non-existing node
      - insert one more
      - quit
  - Submit to Camino