

Advanced Programming

COEN 11

Lab 5

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□ Restaurant Waiting List

➤ Using a linked list

- Each node has a reservation name and the number of people in the group

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- ❑ The waiting list is created interactively with the following commands
 - **insert name number** - insert a node with the name and number of people specified
 - **search size** - extract (show and delete) oldest node with a number \leq size
 - **list** - print the list, name and number, from oldest to newest
 - **quit** - quit

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- ❑ 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
 - A tail pointer pointing to the last node makes it more efficient
- ❑ To list
 - Traverse the list using the the pointers

Lab 5

□ Requirements

- 1 linked list

- 4 functions: main, insert, search, list