

Advanced Programming COEN 11

Project 4

Project 4

- **Restaurant Waiting List**
 - Using a linked list
 - Due in week 5

Project 4

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

Project 4

- **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 print**
 - Traverse the list using the the pointers
- **To delete**
 - Traverse the list searching for the number
 - Change pointers to eliminate the node
 - Free the node at the end