

Advanced Programming COEN 11

Project 5

Project 5

- **Restaurant Waiting List with Priorities**
 - Using an array of linked lists
 - Due in week 6

Project 5

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

Project 5

- **Do not allow names to repeat**
 - Check all the lists before inserting
- **Keep your lists in the oldest-to-newest order**
 - Always insert a new entry at the end of the appropriate list
 - A tail pointers make it more efficient
- **To show the lists**
 - Traverse each list using the the pointers
- **To get the next**
 - Traverse each list, from priority zero and up, searching for the number
 - Change pointers to eliminate the node
 - Free the node at the end