

Advanced Programming COEN 11

Lab 5

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- The waiting list is created interactively with the following commands
 - 1 name number - insert a node with the name and number of people specified
 - 2 size - extract (show and delete) oldest node with a number \leq size (or the maximum one \leq size)
 - 3 - print the list, name and number, from oldest to newest
 - 4 - quit

Lab 5

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

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

Lab 5

❑ Requirements

- 1 linked list
- 4 functions: main, insert, search, list

Lab 5

❑ To receive full credit

- Demo
 - Show the TA
 - insert (3 items)
 - search (one existing and one non-existing elements)
 - list
 - quit
- Submit a hardcopy
- Send your code by email to the TA