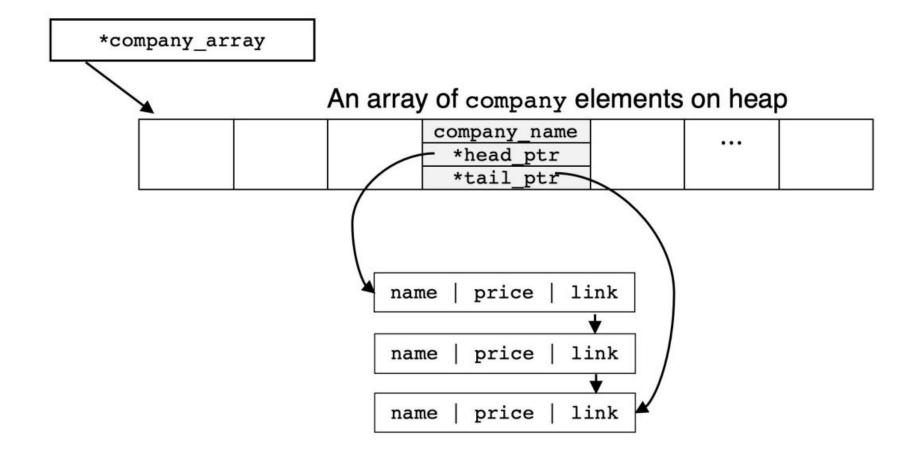
Lab 7



Node

- One node of a linked list
 - One product and link to next node
- Once again, there are toolkit functions built into the implementation of this class that can make your company easier
- Private Variables
 - std::string name; //name of product
 - float price; //price of product
 - o node* link // link to next product
- Functionality similar to node class from last week

Company

- Maintains a linked list of products (node class)
 - NOT allowed to have duplicate products in a company
- Forward linked list
 - Order does NOT matter
- Private Variables
 - std::string company_name; //name of company
 - o node *head_ptr; //head of linked list of products
 - node* tail_ptr // tail of linked list of products

Database

- Stores the name of companies as well as their products
 - NOT allowed to have duplicate companies in a database
- Builds off of the company and node classes
- Private Variables
 - company *company_array;
 - size_t aloc_slots;
 - size_t used_slots;
- Functionality similar to myString class from lab 5

Provided Files

- Node
 - o node.h
 - o node.cpp
- Company
 - o company.h
 - o company.cpp
- Database
 - o database.h
 - o database.cpp
- Example_expected_output.rtf

Don't Forget

- Demo code to me
 - Today or next week
 - Must compile and run on linux servers
- Submit your code before week's deadline
- Comment code
- File with description of lab is on Camino
 - Submission guidelines