Project Report

**Team 1**

Desmond Weindorf  
Tim Lee  
Caleb Francisco  
John Stevens

Assignment11  
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Description:

The program is easy to navigate, using numbers to pick menu options in the console. Data is loaded in via the first option, loading data.txt in the debug binaries folder. The loaded file follows the same format as your usual test files, and can be assumed to run delimited by semi-colons, returns, and with an optional number in the first line.

Customers can be also added manually in with the second option. All customers are sorted by age in the linked list when added, and can be displayed to the screen via the third option.

We fulfilled the following requirements:

* Double Linked List – Customer data structure
* Overloaded operators – Comparison of customer ages
* Sorting algorithm – Customers are sorted by age when entered into the linked list
* Abstract Class – Customer is an abstract class
* Interface – The console menu has an interface defined within the same file
* Base Class – Member and NonMember (visitor) classes inherit from the Customer base class
* File I/O – Fake customer data can be loaded in via a menu option
* Custom Exception – Customers with duplicate ages in the linked list will throw an exception when displayed to the screen.

References:

We used Desmond’s file i/o method and console menu class used in previous assignments. We also used a modified version of the Linked List you provided for a previous assignment.

Problems/bugs and comments:

Why not make the following assignments Assignment11\_base3, Assignment11\_base4, etc? Base 2 is so 1950s.

The input file (Assignment11\Assignment11\bin\Debug\data.txt):

john doe;52;member  
jane doe;23;visitor  
stephanie wolphcolphman;20;member  
desmond weindorf;24;visitor  
tim lee;22;member  
caleb;28;member  
john;21;member