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CSC 330 – Object Oriented Programming
Project #02 – Newspaper Delivery System
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Test Cases and Results

Tests were written for the Household and Carrier classes, as well as for the C# List type and for data import methods.

Class-Oriented Tests

The Carrier class was tested by calling its constructor and then testing its property getters and accessors. The status of the Carrier object was observed by writing the object's data to standard out via an overridden ToString method.

The same approach was applied to the Household class, which inherited from the Carrier class. All methods of both classes were called and the results were written to standard out.

List<T> Test

Being familiar with C++'s Vector<T> class, a test was written for the List type to better understand its behavior and how it paralleled C++'s Vector.

The main functionality we were interested in was essentially what a Vector would have offered; a way to store objects via a stack push method that would insert at the end of the container.

C#'s List offered other methods that were later tested during implementation; however, the initial test of List tested pushing anonymous objects constructed at runtime and iteration via foreach blocks.

Data Import Testing

A test was written to make sure data files were imported correctly. Using CSV files, data import methods were written in a class meant to handle CSV files as strings.

Data was imported via File.ReadAllText(); this was stored in a string which was then split by newline delimiter, and lastly split by comma delimiters, used to populate objects and stored in a list.

Test Results

Testing yielded results that ensured that each class's object would behave in a predictable fashion throughout development and at runtime. There were few surprises with our API and this left less debugging to be done during future development.