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## COM S 213 – Spring 2003

**ASSIGNMENT #9:**                      **Simple Shopping System**

**DATE GIVEN:**                        **4/17/03**

**DATE DUE:**                            **4/24/03**

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**PURPOSE:**

To apply what we've learned about the Standard Template Library map container

**ASSIGNMENT:**

THIS is the LAST assignment of the semester. As such, I've decided to make it good!

You will be writing a very simple command line system. The following commands will be implemented:

- Load
- Add
- Remove
- Checkout
- Showcart
- Showstore

The commands will need to be implemented as follows:

<b>COMMAND</b>	<b>DESCRIPTION</b>
Load	<p>Prompts user for a file name which contains a list of all item numbers, descriptions and prices. The file has an unknown number of records. Each record is in the following format:</p> <p style="text-align: center;">ITEM# DESCRIPTION PRICE</p> <p>The item number is always a 6 digit integer. The description is never longer than one line and the price should be treated as a float.</p> <p>When loading the file, a data structure should be created to store the description and price, and that structure should be</p>

	stored in a map with the key being the item number. This map is used for future queries involving the stock in the store.
Add	Prompts the user for an item number to add to the user's "basket". The basket can be a dynamic array of item numbers or a vector. Assume the user can only have 1 of any one item in their basket at a time (you do not need to deal with the user wanting two or more of a particular item)
Remove	Prompts the user for an item number to be removed from the user's basket
Checkout	Prints out item number, description and amount followed by a grand total. Program then ends.
ShowCart	Shows all items in the cart, with their prices and item numbers.
ShowStore	Shows all items for sale in the store.

I will provide a file named "store.dat" containing a listing of all items in the store. You should show adding and removing items from the basket, and a checkout with at least four items in the basket.

### **SUGGESTIONS**

The due date for this assignment is next Thursday, 4/24. If you'd like to turn it in later (prior to Sunday) you may, but only assignments handed in during class will be graded and made available for pickup prior to the prelim.

Please email me with questions.