Northeastern University

Course:	DA5020
Assignment:	Module 4 - Data Import - C
Total Points:	100
Date Due:	Posted on Blackboard

Learning Objectives

In this assignment, you will learn how to:

- read and parse XML
- retrieve data from XML

Tasks

1. (25 Points) Load and then parse the XML document at the URL (http://www.cs.washington.edu/research/xmldatasets/data/auctions/ebay.xml) using `xmlTreeParse()`. The data sets contains bidding information about items on eBay. Create any intermediate data objects as deemed necessary to write a function named moreFiveBids() to answer the following question: how many auctions had more than 5 bids? Use the function to output the answer.

2. (75 Points) Take a look at the data set on trades during a single day for ESZ13 futures trades at the URL http://www.barchartmarketdata.com/data-samples/getHistory15.xml. After loading the data, write and use the following functions to answer these retrieval queries:

    a. highestClosingPrice() answers the question: what was the highest closing price for the security?

    b. totalVolume() answers the question: what was the total volume traded?

    c. averageVolume() answers the question: what was the average trading volume during each HOUR of the trading day? The function should place the result into a data frame containing the hour and average trading volume for that hour.