Stock Quote Test Cases

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## Introduction

When creating code in the field, be it commercial or otherwise, it is necessary to verify the correctness of its function. That is, to ensure that the code performs its expected duties without fail. It is difficult to ensure one-hundred percent correctness most of the time, but we must strive to write code that is one-hundred percent correct.

Recorded in this file is the results of thorough testing of a simple Perl script that retrieves stock quote data from Yahoo!’s finance server and parses it into a more readable format for the user.

## Test Case Details and Results

To show accuracy of retrieved data, each test case will be compared to a test case’s result from the Initial Data Set Verification tests. Only one parameter will be changed per test case to show that only that single change could affect a change in the resulting set’s data.

A description of the contents of the table:

* Test case number: An arbitrarily assigned unique number to each test case for tracking.
* Test case description: A short description of what the test case is testing.
* Test case parameters: The parameters supplied immediately following invocation of the script.
* Test case results: PASS / FAIL indicate whether or not the results of the test match the expected results.

For ease of reading and organization of this document and its records, the full output of each test case and the expected output of each test case is supplied in the appendix in section three.

|  |  |  |  |
| --- | --- | --- | --- |
| Test Details | | | |
| Test # | Description | Parameters | Result |
| Initial Data Set Verification (Verified by inspection) | | | |
| 0 | Verify retrieval for a single stock symbol. This data set was checked against the data set from directly querying the Yahoo! servers through Mozilla Firefox 3.6. | -s GOOG -b 7/16/2009 -e 8/16/2009 -d -h -p “./” | PASS |
| 1 | Verify retrieval for multiple stock symbols. This data set was checked against the data set from directly querying the Yahoo! servers through Mozilla Firefox 3.6. | -b 7/16/2009 -e 8/16/2009 -d -h -p “./”  > GOOG VBIIX | PASS |
| 2 | Verify retrieval for a single stock symbol from “today”. This data set was checked against the data set from directly querying the Yahoo! servers through Mozilla Firefox 3.6. | -s GOOG -t -d -h -p “./” | PASS |
| 3 | Verify retrieval for multiple stock symbols from “today”. This data set was checked against the data set from directly querying the Yahoo! servers through Mozilla Firefox 3.6 | -t -d -h -p “./”  > GOOG VBIIX | PASS |
| Single Quote Retrieval | | | |
| 4 | Retrieve the quotes for a single stock symbol specified from the command line. | See test 0. | PASS |
| 5 | Retrieve the quotes for a single stock symbol when multiple symbols are specified on the command line. | -s GOOG YHOO -b 7/16/2009 -e 8/16/2009 -d -h -p "./" | PASS |
| 6 | Retrieve no quotes when the stock symbol is not specified on the command line. | -s -b 7/16/2009 -e 8/16/2009 -d -h -p "./" | PASS |
| Multiple Quote Retrieval | | | |
| 7 | Retrieve the quotes for multiple stock symbols. | -b 7/16/2009 -e 8/16/2009 -d -h -p "./" > GOOG VBIIX | PASS |
| 8 | Retrieve the quotes for a single stock symbol when entering symbols in multiple insertion mode. | -b 7/16/2009 -e 8/16/2009 -d -h -p "./" > GOOG | PASS |
| 9 | Retrieve no quotes when no symbols are supplied when entering symbols in multiple insertion mode. | -b 7/16/2009 -e 8/16/2009 -d -h -p "./" > | PASS |
| Output to Standard Out | | | |
| 10 | Output the quotes to standard out for a single stock symbol. | -s GOOG -b 7/16/2009 -e 8/16/2009 -d -h | PASS |
| 11 | Output the quotes to standard out for multiple stock symbols when entering symbols in multiple insertion mode. | -b 7/16/2009 -e 8/16/2009 -d -h > GOOG YHOO | PASS |
| 12 | Output no quotes to standard out when no stock symbol is supplied. | -s -b 7/16/2009 -e 8/16/2009 -d -h | PASS |
| Output to Files | | | |
| 13 | Output the quotes to the specified file for a single stock symbol. | See test 0. | PASS |
| 14 | Show an error when the specified file cannot be accessed for a single stock symbol. | -s GOOG -b 7/16/2009 -e 8/16/2009 -d -h -p “/lalaland/” | PASS |
| 15 | Output the quotes to individual files labeled by their names for multiple stock symbols. | See test 1. | PASS |
| 16 | Show an error when the specified file cannot be accessed for multiple stock symbols. | -b 7/16/2009 -e 8/16/2009 -d -h -p “/lalaland/” | PASS |
| Delete or Append to Existing Files | | | |
| 17 | Delete existing file before outputting quote data to file. | See test 0. | PASS |
| 18 | Append to existing file, or create the file if it does not previously exist. | -s GOOG -b 7/16/2009 -e 8/16/2009 -d -h -p “./”  -s GOOG -b 7/16/2009 -e 8/16/2009 -h -p “./” | PASS |
| Retrieve Today’s Quotes | | |  |
| 19 | Retrieve the quotes for a single stock symbol specified from the command prompt for “today”. | See test 2. | PASS |
| 20 | Retrieve the quotes for multiple stock symbols for “today”. | See test 3. | PASS |
| Retrieve Quotes Between Specified Dates | | | |
| 21 | Retrieve the quotes for a single stock symbol specified from the command line for the specified date range. | See test 0. | PASS |
| 22 | Retrieve the quotes for multiple stock symbols for the specified date range. | See test 1. | PASS |
| Print Header | | | |
| 23 | Prepend the output quote data with a header describing the format of the quote data. | See test 0. | PASS |
| 24 | Do not prepend the quote data with the header. | -s GOOG -b 7/16/2009 -e 8/16/2009 -d -p “./” | PASS |
| Print Help | | | |
| 25 | Print the help file for the script to standard out when the script is run with no parameters. |  | PASS |
| 26 | Print the help file for the script to standard out when the script is run with -help. | -help | PASS |
| Formats Quotes Correctly | | | |
| 27 | Format quotes in the prescribed format: Open,High,Low,Close,Volume | See test 0. | PASS |
| Formats Dates Correctly | | | |
| 28 | Format quote dates in the prescribed format:  DD MON YYYY | See test 0. | PASS |
| Formats Field Order Correctly | | | |
| 29 | Formats quotes in the prescribed format:  Open,High,Low,Close,Volume,Date | See test 0. | PASS |
| Formats Quotes in Chronological Order | | | |
| 30 | Formats quotes in chronological ascending order. | See test 0. | PASS |
| Read Quote Symbols from Standard In | | | |
| 31 | Read in a list of stock symbols from standard in when a stock symbol is not supplied on the command line. | See test 1. | PASS |
| Adjust Quotes to Closing Price | | | |
| 32 | Adjust the quote values for a single stock symbol provided on the command line. | -s K -b 7/16/2009 -e 8/16/2009 -a -d -h -p “./” | PASS |
| 33 | Adjust the quote values for multiple stock symbols. | -b 7/16/2009 -e 8/16/2009 -a -d -h -p “./”  > K YHOO | PASS |
| Use Flexible Date Formatting | | | |
| 34 | Allow different separator symbols and extraneous digits for date formatting. The test case will be parsed with dates that show  “7/16/2009” and “8/16/2009”. | -s GOOG -b 00007\_16-02009 -e 08/0000016.002009  -h -d -p “./” | PASS |
| TEST RESULTS | | | |
| 34 tests | n/a. | n/a. | PASS |

## Appendix

This is the appendix of data for each test case. Each row consists of the following:

* Test number correlating to the unique test number from section 2.
* Expected: The output expected to be produced from the test case.
* Actual: The output actually produced from the test case.
* If the text block is preceded by a “>” character, it means that the output was produced to STDOUT, else the text was stored to a file named with syntax of “<Stock Symbol>.csv”.
  + Since the tests all used the same set of data for the same date range and the same stock symbol, the contents of the files were recorded here after each run.
* Multiple tests have “See test X” in the Expected and Actual fields. These tests produced the same resultant data as the test they refer to. This shorthand notation was used so the appendix would not be as large.

|  |  |  |
| --- | --- | --- |
| Test Output | | |
| Test # | Expected | Actual |
| 0 | Open,High,Low,Close,Volume,Date  436.68,445.75,434.10,442.60,6554500,16 Jul 2009  433.00,435.48,426.70,430.25,6854100,17 Jul 2009  429.88,432.85,426.25,430.17,3153500,20 Jul 2009  430.94,431.90,425.72,427.90,2968200,21 Jul 2009  428.00,430.20,423.50,427.69,2586700,22 Jul 2009  428.68,441.21,425.50,437.34,3478200,23 Jul 2009  435.81,450.49,435.00,446.72,3626900,24 Jul 2009  446.04,446.75,437.61,444.80,2504400,27 Jul 2009  441.00,442.81,436.10,439.85,2532500,28 Jul 2009  437.23,437.80,431.89,436.24,1987000,29 Jul 2009  442.61,451.47,442.61,445.64,3198600,30 Jul 2009  449.98,452.70,442.43,443.05,2860400,31 Jul 2009  448.74,453.90,447.64,452.21,2590300,3 Aug 2009  449.37,454.00,448.43,453.73,2389800,4 Aug 2009  456.00,456.91,447.88,451.14,2342000,5 Aug 2009  454.30,454.88,448.53,450.36,2110900,6 Aug 2009  455.67,459.42,454.99,457.10,2543100,7 Aug 2009  455.14,458.41,453.79,456.61,1742000,10 Aug 2009  453.67,457.23,452.38,453.94,1712500,11 Aug 2009  455.41,461.75,454.92,458.58,2341400,12 Aug 2009  462.15,464.72,458.91,462.28,1995200,13 Aug 2009  462.78,463.18,456.89,460.00,1675100,14 Aug 2009 | Open,High,Low,Close,Volume,Date  436.68,445.75,434.10,442.60,6554500,16 Jul 2009  433.00,435.48,426.70,430.25,6854100,17 Jul 2009  429.88,432.85,426.25,430.17,3153500,20 Jul 2009  430.94,431.90,425.72,427.90,2968200,21 Jul 2009  428.00,430.20,423.50,427.69,2586700,22 Jul 2009  428.68,441.21,425.50,437.34,3478200,23 Jul 2009  435.81,450.49,435.00,446.72,3626900,24 Jul 2009  446.04,446.75,437.61,444.80,2504400,27 Jul 2009  441.00,442.81,436.10,439.85,2532500,28 Jul 2009  437.23,437.80,431.89,436.24,1987000,29 Jul 2009  442.61,451.47,442.61,445.64,3198600,30 Jul 2009  449.98,452.70,442.43,443.05,2860400,31 Jul 2009  448.74,453.90,447.64,452.21,2590300,3 Aug 2009  449.37,454.00,448.43,453.73,2389800,4 Aug 2009  456.00,456.91,447.88,451.14,2342000,5 Aug 2009  454.30,454.88,448.53,450.36,2110900,6 Aug 2009  455.67,459.42,454.99,457.10,2543100,7 Aug 2009  455.14,458.41,453.79,456.61,1742000,10 Aug 2009  453.67,457.23,452.38,453.94,1712500,11 Aug 2009  455.41,461.75,454.92,458.58,2341400,12 Aug 2009  462.15,464.72,458.91,462.28,1995200,13 Aug 2009  462.78,463.18,456.89,460.00,1675100,14 Aug 2009 |
| 1 | Open,High,Low,Close,Volume,Date  436.68,445.75,434.10,442.60,6554500,16 Jul 2009  433.00,435.48,426.70,430.25,6854100,17 Jul 2009  429.88,432.85,426.25,430.17,3153500,20 Jul 2009  430.94,431.90,425.72,427.90,2968200,21 Jul 2009  428.00,430.20,423.50,427.69,2586700,22 Jul 2009  428.68,441.21,425.50,437.34,3478200,23 Jul 2009  435.81,450.49,435.00,446.72,3626900,24 Jul 2009  446.04,446.75,437.61,444.80,2504400,27 Jul 2009  441.00,442.81,436.10,439.85,2532500,28 Jul 2009  437.23,437.80,431.89,436.24,1987000,29 Jul 2009  442.61,451.47,442.61,445.64,3198600,30 Jul 2009  449.98,452.70,442.43,443.05,2860400,31 Jul 2009  448.74,453.90,447.64,452.21,2590300,3 Aug 2009  449.37,454.00,448.43,453.73,2389800,4 Aug 2009  456.00,456.91,447.88,451.14,2342000,5 Aug 2009  454.30,454.88,448.53,450.36,2110900,6 Aug 2009  455.67,459.42,454.99,457.10,2543100,7 Aug 2009  455.14,458.41,453.79,456.61,1742000,10 Aug 2009  453.67,457.23,452.38,453.94,1712500,11 Aug 2009  455.41,461.75,454.92,458.58,2341400,12 Aug 2009  462.15,464.72,458.91,462.28,1995200,13 Aug 2009  462.78,463.18,456.89,460.00,1675100,14 Aug 2009 | Open,High,Low,Close,Volume,Date  436.68,445.75,434.10,442.60,6554500,16 Jul 2009  433.00,435.48,426.70,430.25,6854100,17 Jul 2009  429.88,432.85,426.25,430.17,3153500,20 Jul 2009  430.94,431.90,425.72,427.90,2968200,21 Jul 2009  428.00,430.20,423.50,427.69,2586700,22 Jul 2009  428.68,441.21,425.50,437.34,3478200,23 Jul 2009  435.81,450.49,435.00,446.72,3626900,24 Jul 2009  446.04,446.75,437.61,444.80,2504400,27 Jul 2009  441.00,442.81,436.10,439.85,2532500,28 Jul 2009  437.23,437.80,431.89,436.24,1987000,29 Jul 2009  442.61,451.47,442.61,445.64,3198600,30 Jul 2009  449.98,452.70,442.43,443.05,2860400,31 Jul 2009  448.74,453.90,447.64,452.21,2590300,3 Aug 2009  449.37,454.00,448.43,453.73,2389800,4 Aug 2009  456.00,456.91,447.88,451.14,2342000,5 Aug 2009  454.30,454.88,448.53,450.36,2110900,6 Aug 2009  455.67,459.42,454.99,457.10,2543100,7 Aug 2009  455.14,458.41,453.79,456.61,1742000,10 Aug 2009  453.67,457.23,452.38,453.94,1712500,11 Aug 2009  455.41,461.75,454.92,458.58,2341400,12 Aug 2009  462.15,464.72,458.91,462.28,1995200,13 Aug 2009  462.78,463.18,456.89,460.00,1675100,14 Aug 2009 |
| 2 | Open,High,Low,Close,Volume,Date  509.68,519.98,508.91,513.46,4466300,21 Sep 2010 | Open,High,Low,Close,Volume,Date  509.68,519.98,508.91,513.46,4466300,21 Sep 2010 |
| 3 | Open,High,Low,Close,Volume,Date  509.68,519.98,508.91,513.46,4466300,21 Sep 2010 | Open,High,Low,Close,Volume,Date  509.68,519.98,508.91,513.46,4466300,21 Sep 2010 |
| 4 | See test 0. | See test 0. |
| 5 | Open,High,Low,Close,Volume,Date  436.68,445.75,434.10,442.60,6554500,16 Jul 2009  433.00,435.48,426.70,430.25,6854100,17 Jul 2009  429.88,432.85,426.25,430.17,3153500,20 Jul 2009  430.94,431.90,425.72,427.90,2968200,21 Jul 2009  428.00,430.20,423.50,427.69,2586700,22 Jul 2009  428.68,441.21,425.50,437.34,3478200,23 Jul 2009  435.81,450.49,435.00,446.72,3626900,24 Jul 2009  446.04,446.75,437.61,444.80,2504400,27 Jul 2009  441.00,442.81,436.10,439.85,2532500,28 Jul 2009  437.23,437.80,431.89,436.24,1987000,29 Jul 2009  442.61,451.47,442.61,445.64,3198600,30 Jul 2009  449.98,452.70,442.43,443.05,2860400,31 Jul 2009  448.74,453.90,447.64,452.21,2590300,3 Aug 2009  449.37,454.00,448.43,453.73,2389800,4 Aug 2009  456.00,456.91,447.88,451.14,2342000,5 Aug 2009  454.30,454.88,448.53,450.36,2110900,6 Aug 2009  455.67,459.42,454.99,457.10,2543100,7 Aug 2009  455.14,458.41,453.79,456.61,1742000,10 Aug 2009  453.67,457.23,452.38,453.94,1712500,11 Aug 2009  455.41,461.75,454.92,458.58,2341400,12 Aug 2009  462.15,464.72,458.91,462.28,1995200,13 Aug 2009  462.78,463.18,456.89,460.00,1675100,14 Aug 2009 | Open,High,Low,Close,Volume,Date  436.68,445.75,434.10,442.60,6554500,16 Jul 2009  433.00,435.48,426.70,430.25,6854100,17 Jul 2009  429.88,432.85,426.25,430.17,3153500,20 Jul 2009  430.94,431.90,425.72,427.90,2968200,21 Jul 2009  428.00,430.20,423.50,427.69,2586700,22 Jul 2009  428.68,441.21,425.50,437.34,3478200,23 Jul 2009  435.81,450.49,435.00,446.72,3626900,24 Jul 2009  446.04,446.75,437.61,444.80,2504400,27 Jul 2009  441.00,442.81,436.10,439.85,2532500,28 Jul 2009  437.23,437.80,431.89,436.24,1987000,29 Jul 2009  442.61,451.47,442.61,445.64,3198600,30 Jul 2009  449.98,452.70,442.43,443.05,2860400,31 Jul 2009  448.74,453.90,447.64,452.21,2590300,3 Aug 2009  449.37,454.00,448.43,453.73,2389800,4 Aug 2009  456.00,456.91,447.88,451.14,2342000,5 Aug 2009  454.30,454.88,448.53,450.36,2110900,6 Aug 2009  455.67,459.42,454.99,457.10,2543100,7 Aug 2009  455.14,458.41,453.79,456.61,1742000,10 Aug 2009  453.67,457.23,452.38,453.94,1712500,11 Aug 2009  455.41,461.75,454.92,458.58,2341400,12 Aug 2009  462.15,464.72,458.91,462.28,1995200,13 Aug 2009  462.78,463.18,456.89,460.00,1675100,14 Aug 2009 |
| 6 | > You must put the stock symbol after the -s flag | > You must put the stock symbol after the -s flag |
| 7 | Open,High,Low,Close,Volume,Date  436.68,445.75,434.10,442.60,6554500,16 Jul 2009  433.00,435.48,426.70,430.25,6854100,17 Jul 2009  429.88,432.85,426.25,430.17,3153500,20 Jul 2009  430.94,431.90,425.72,427.90,2968200,21 Jul 2009  428.00,430.20,423.50,427.69,2586700,22 Jul 2009  428.68,441.21,425.50,437.34,3478200,23 Jul 2009  435.81,450.49,435.00,446.72,3626900,24 Jul 2009  446.04,446.75,437.61,444.80,2504400,27 Jul 2009  441.00,442.81,436.10,439.85,2532500,28 Jul 2009  437.23,437.80,431.89,436.24,1987000,29 Jul 2009  442.61,451.47,442.61,445.64,3198600,30 Jul 2009  449.98,452.70,442.43,443.05,2860400,31 Jul 2009  448.74,453.90,447.64,452.21,2590300,3 Aug 2009  449.37,454.00,448.43,453.73,2389800,4 Aug 2009  456.00,456.91,447.88,451.14,2342000,5 Aug 2009  454.30,454.88,448.53,450.36,2110900,6 Aug 2009  455.67,459.42,454.99,457.10,2543100,7 Aug 2009  455.14,458.41,453.79,456.61,1742000,10 Aug 2009  453.67,457.23,452.38,453.94,1712500,11 Aug 2009  455.41,461.75,454.92,458.58,2341400,12 Aug 2009  462.15,464.72,458.91,462.28,1995200,13 Aug 2009  462.78,463.18,456.89,460.00,1675100,14 Aug 2009  Open,High,Low,Close,Volume,Date  10.45,10.45,10.45,10.45,000,16 Jul 2009  10.42,10.42,10.42,10.42,000,17 Jul 2009  10.45,10.45,10.45,10.45,000,20 Jul 2009  10.56,10.56,10.56,10.56,000,21 Jul 2009  10.52,10.52,10.52,10.52,000,22 Jul 2009  10.43,10.43,10.43,10.43,000,23 Jul 2009  10.46,10.46,10.46,10.46,000,24 Jul 2009  10.43,10.43,10.43,10.43,000,27 Jul 2009  10.45,10.45,10.45,10.45,000,28 Jul 2009  10.47,10.47,10.47,10.47,000,29 Jul 2009  10.52,10.52,10.52,10.52,000,30 Jul 2009  10.62,10.62,10.62,10.62,000,31 Jul 2009  10.54,10.54,10.54,10.54,000,3 Aug 2009  10.52,10.52,10.52,10.52,000,4 Aug 2009  10.48,10.48,10.48,10.48,000,5 Aug 2009  10.50,10.50,10.50,10.50,000,6 Aug 2009  10.45,10.45,10.45,10.45,000,7 Aug 2009  10.51,10.51,10.51,10.51,000,10 Aug 2009  10.56,10.56,10.56,10.56,000,11 Aug 2009  10.54,10.54,10.54,10.54,000,12 Aug 2009  10.61,10.61,10.61,10.61,000,13 Aug 2009  10.62,10.62,10.62,10.62,000,14 Aug 2009 | Open,High,Low,Close,Volume,Date  436.68,445.75,434.10,442.60,6554500,16 Jul 2009  433.00,435.48,426.70,430.25,6854100,17 Jul 2009  429.88,432.85,426.25,430.17,3153500,20 Jul 2009  430.94,431.90,425.72,427.90,2968200,21 Jul 2009  428.00,430.20,423.50,427.69,2586700,22 Jul 2009  428.68,441.21,425.50,437.34,3478200,23 Jul 2009  435.81,450.49,435.00,446.72,3626900,24 Jul 2009  446.04,446.75,437.61,444.80,2504400,27 Jul 2009  441.00,442.81,436.10,439.85,2532500,28 Jul 2009  437.23,437.80,431.89,436.24,1987000,29 Jul 2009  442.61,451.47,442.61,445.64,3198600,30 Jul 2009  449.98,452.70,442.43,443.05,2860400,31 Jul 2009  448.74,453.90,447.64,452.21,2590300,3 Aug 2009  449.37,454.00,448.43,453.73,2389800,4 Aug 2009  456.00,456.91,447.88,451.14,2342000,5 Aug 2009  454.30,454.88,448.53,450.36,2110900,6 Aug 2009  455.67,459.42,454.99,457.10,2543100,7 Aug 2009  455.14,458.41,453.79,456.61,1742000,10 Aug 2009  453.67,457.23,452.38,453.94,1712500,11 Aug 2009  455.41,461.75,454.92,458.58,2341400,12 Aug 2009  462.15,464.72,458.91,462.28,1995200,13 Aug 2009  462.78,463.18,456.89,460.00,1675100,14 Aug 2009  Open,High,Low,Close,Volume,Date  10.45,10.45,10.45,10.45,000,16 Jul 2009  10.42,10.42,10.42,10.42,000,17 Jul 2009  10.45,10.45,10.45,10.45,000,20 Jul 2009  10.56,10.56,10.56,10.56,000,21 Jul 2009  10.52,10.52,10.52,10.52,000,22 Jul 2009  10.43,10.43,10.43,10.43,000,23 Jul 2009  10.46,10.46,10.46,10.46,000,24 Jul 2009  10.43,10.43,10.43,10.43,000,27 Jul 2009  10.45,10.45,10.45,10.45,000,28 Jul 2009  10.47,10.47,10.47,10.47,000,29 Jul 2009  10.52,10.52,10.52,10.52,000,30 Jul 2009  10.62,10.62,10.62,10.62,000,31 Jul 2009  10.54,10.54,10.54,10.54,000,3 Aug 2009  10.52,10.52,10.52,10.52,000,4 Aug 2009  10.48,10.48,10.48,10.48,000,5 Aug 2009  10.50,10.50,10.50,10.50,000,6 Aug 2009  10.45,10.45,10.45,10.45,000,7 Aug 2009  10.51,10.51,10.51,10.51,000,10 Aug 2009  10.56,10.56,10.56,10.56,000,11 Aug 2009  10.54,10.54,10.54,10.54,000,12 Aug 2009  10.61,10.61,10.61,10.61,000,13 Aug 2009  10.62,10.62,10.62,10.62,000,14 Aug 2009 |
| 8 | Open,High,Low,Close,Volume,Date  436.68,445.75,434.10,442.60,6554500,16 Jul 2009  433.00,435.48,426.70,430.25,6854100,17 Jul 2009  429.88,432.85,426.25,430.17,3153500,20 Jul 2009  430.94,431.90,425.72,427.90,2968200,21 Jul 2009  428.00,430.20,423.50,427.69,2586700,22 Jul 2009  428.68,441.21,425.50,437.34,3478200,23 Jul 2009  435.81,450.49,435.00,446.72,3626900,24 Jul 2009  446.04,446.75,437.61,444.80,2504400,27 Jul 2009  441.00,442.81,436.10,439.85,2532500,28 Jul 2009  437.23,437.80,431.89,436.24,1987000,29 Jul 2009  442.61,451.47,442.61,445.64,3198600,30 Jul 2009  449.98,452.70,442.43,443.05,2860400,31 Jul 2009  448.74,453.90,447.64,452.21,2590300,3 Aug 2009  449.37,454.00,448.43,453.73,2389800,4 Aug 2009  456.00,456.91,447.88,451.14,2342000,5 Aug 2009  454.30,454.88,448.53,450.36,2110900,6 Aug 2009  455.67,459.42,454.99,457.10,2543100,7 Aug 2009  455.14,458.41,453.79,456.61,1742000,10 Aug 2009  453.67,457.23,452.38,453.94,1712500,11 Aug 2009  455.41,461.75,454.92,458.58,2341400,12 Aug 2009  462.15,464.72,458.91,462.28,1995200,13 Aug 2009  462.78,463.18,456.89,460.00,1675100,14 Aug 2009 | Open,High,Low,Close,Volume,Date  436.68,445.75,434.10,442.60,6554500,16 Jul 2009  433.00,435.48,426.70,430.25,6854100,17 Jul 2009  429.88,432.85,426.25,430.17,3153500,20 Jul 2009  430.94,431.90,425.72,427.90,2968200,21 Jul 2009  428.00,430.20,423.50,427.69,2586700,22 Jul 2009  428.68,441.21,425.50,437.34,3478200,23 Jul 2009  435.81,450.49,435.00,446.72,3626900,24 Jul 2009  446.04,446.75,437.61,444.80,2504400,27 Jul 2009  441.00,442.81,436.10,439.85,2532500,28 Jul 2009  437.23,437.80,431.89,436.24,1987000,29 Jul 2009  442.61,451.47,442.61,445.64,3198600,30 Jul 2009  449.98,452.70,442.43,443.05,2860400,31 Jul 2009  448.74,453.90,447.64,452.21,2590300,3 Aug 2009  449.37,454.00,448.43,453.73,2389800,4 Aug 2009  456.00,456.91,447.88,451.14,2342000,5 Aug 2009  454.30,454.88,448.53,450.36,2110900,6 Aug 2009  455.67,459.42,454.99,457.10,2543100,7 Aug 2009  455.14,458.41,453.79,456.61,1742000,10 Aug 2009  453.67,457.23,452.38,453.94,1712500,11 Aug 2009  455.41,461.75,454.92,458.58,2341400,12 Aug 2009  462.15,464.72,458.91,462.28,1995200,13 Aug 2009  462.78,463.18,456.89,460.00,1675100,14 Aug 2009 |
| 9 | > The stock symbols provided are invalid | > The stock symbols provided are invalid |
| 10 | > Retrieving quote data from the server. If this takes more than a few seconds kill the script and try again, the server has stalled in answering.  Open,High,Low,Close,Volume,Date  436.68,445.75,434.10,442.60,6554500,16 Jul 2009  433.00,435.48,426.70,430.25,6854100,17 Jul 2009  429.88,432.85,426.25,430.17,3153500,20 Jul 2009  430.94,431.90,425.72,427.90,2968200,21 Jul 2009  428.00,430.20,423.50,427.69,2586700,22 Jul 2009  428.68,441.21,425.50,437.34,3478200,23 Jul 2009  435.81,450.49,435.00,446.72,3626900,24 Jul 2009  446.04,446.75,437.61,444.80,2504400,27 Jul 2009  441.00,442.81,436.10,439.85,2532500,28 Jul 2009  437.23,437.80,431.89,436.24,1987000,29 Jul 2009  442.61,451.47,442.61,445.64,3198600,30 Jul 2009  449.98,452.70,442.43,443.05,2860400,31 Jul 2009  448.74,453.90,447.64,452.21,2590300,3 Aug 2009  449.37,454.00,448.43,453.73,2389800,4 Aug 2009  456.00,456.91,447.88,451.14,2342000,5 Aug 2009  454.30,454.88,448.53,450.36,2110900,6 Aug 2009  455.67,459.42,454.99,457.10,2543100,7 Aug 2009  455.14,458.41,453.79,456.61,1742000,10 Aug 2009  453.67,457.23,452.38,453.94,1712500,11 Aug 2009  455.41,461.75,454.92,458.58,2341400,12 Aug 2009  462.15,464.72,458.91,462.28,1995200,13 Aug 2009  462.78,463.18,456.89,460.00,1675100,14 Aug 2009  Stock data retrieval successful. | > Retrieving quote data from the server. If this takes more than a few seconds kill the script and try again, the server has stalled in answering.  Open,High,Low,Close,Volume,Date  436.68,445.75,434.10,442.60,6554500,16 Jul 2009  433.00,435.48,426.70,430.25,6854100,17 Jul 2009  429.88,432.85,426.25,430.17,3153500,20 Jul 2009  430.94,431.90,425.72,427.90,2968200,21 Jul 2009  428.00,430.20,423.50,427.69,2586700,22 Jul 2009  428.68,441.21,425.50,437.34,3478200,23 Jul 2009  435.81,450.49,435.00,446.72,3626900,24 Jul 2009  446.04,446.75,437.61,444.80,2504400,27 Jul 2009  441.00,442.81,436.10,439.85,2532500,28 Jul 2009  437.23,437.80,431.89,436.24,1987000,29 Jul 2009  442.61,451.47,442.61,445.64,3198600,30 Jul 2009  449.98,452.70,442.43,443.05,2860400,31 Jul 2009  448.74,453.90,447.64,452.21,2590300,3 Aug 2009  449.37,454.00,448.43,453.73,2389800,4 Aug 2009  456.00,456.91,447.88,451.14,2342000,5 Aug 2009  454.30,454.88,448.53,450.36,2110900,6 Aug 2009  455.67,459.42,454.99,457.10,2543100,7 Aug 2009  455.14,458.41,453.79,456.61,1742000,10 Aug 2009  453.67,457.23,452.38,453.94,1712500,11 Aug 2009  455.41,461.75,454.92,458.58,2341400,12 Aug 2009  462.15,464.72,458.91,462.28,1995200,13 Aug 2009  462.78,463.18,456.89,460.00,1675100,14 Aug 2009  Stock data retrieval successful. |
| 11 | > Please list the stock symbols for the quotes to retrieve. Must be separated by a single space a - or a \_  Like this: GOOG-SPY\_IGRSX VBIIX  GOOG YHOO  Retrieving quote data from the server. If this takes more than a few seconds kill the script and try again, the server has stalled in answering.  Open,High,Low,Close,Volume,Date  436.68,445.75,434.10,442.60,6554500,16 Jul 2009  433.00,435.48,426.70,430.25,6854100,17 Jul 2009  429.88,432.85,426.25,430.17,3153500,20 Jul 2009  430.94,431.90,425.72,427.90,2968200,21 Jul 2009  428.00,430.20,423.50,427.69,2586700,22 Jul 2009  428.68,441.21,425.50,437.34,3478200,23 Jul 2009  435.81,450.49,435.00,446.72,3626900,24 Jul 2009  446.04,446.75,437.61,444.80,2504400,27 Jul 2009  441.00,442.81,436.10,439.85,2532500,28 Jul 2009  437.23,437.80,431.89,436.24,1987000,29 Jul 2009  442.61,451.47,442.61,445.64,3198600,30 Jul 2009  449.98,452.70,442.43,443.05,2860400,31 Jul 2009  448.74,453.90,447.64,452.21,2590300,3 Aug 2009  449.37,454.00,448.43,453.73,2389800,4 Aug 2009  456.00,456.91,447.88,451.14,2342000,5 Aug 2009  454.30,454.88,448.53,450.36,2110900,6 Aug 2009  455.67,459.42,454.99,457.10,2543100,7 Aug 2009  455.14,458.41,453.79,456.61,1742000,10 Aug 2009  453.67,457.23,452.38,453.94,1712500,11 Aug 2009  455.41,461.75,454.92,458.58,2341400,12 Aug 2009  462.15,464.72,458.91,462.28,1995200,13 Aug 2009  462.78,463.18,456.89,460.00,1675100,14 Aug 2009  Open,High,Low,Close,Volume,Date  15.80,16.25,15.78,16.19,21919500,16 Jul 2009  16.75,16.91,16.45,16.84,32514700,17 Jul 2009  17.18,17.43,16.65,17.01,27760800,20 Jul 2009  17.05,17.11,16.44,16.75,33601800,21 Jul 2009  16.19,17.48,16.12,17.37,53615500,22 Jul 2009  17.41,17.68,17.16,17.36,37524900,23 Jul 2009  17.43,17.59,17.02,17.48,19944700,24 Jul 2009  17.37,17.48,16.85,17.00,19951800,27 Jul 2009  16.97,17.49,16.52,17.22,36152600,28 Jul 2009  16.00,16.20,15.05,15.14,126807700,29 Jul 2009  15.13,15.14,14.24,14.60,100889000,30 Jul 2009  14.72,14.89,14.29,14.32,62659900,31 Jul 2009  14.56,14.62,14.30,14.34,43976900,3 Aug 2009  14.44,14.68,14.37,14.51,43084800,4 Aug 2009  14.76,14.91,14.61,14.67,50910100,5 Aug 2009  14.76,14.86,14.63,14.74,35659500,6 Aug 2009  14.86,14.90,14.56,14.62,28261000,7 Aug 2009  14.66,14.68,14.49,14.63,18350900,10 Aug 2009  14.54,14.65,14.33,14.46,17823200,11 Aug 2009  14.47,14.76,14.41,14.68,24256200,12 Aug 2009  14.74,15.07,14.61,15.04,40193000,13 Aug 2009  14.98,15.14,14.85,15.04,28817100,14 Aug 2009  Stock data retrieval successful. | > Please list the stock symbols for the quotes to retrieve. Must be separated by a single space a - or a \_  Like this: GOOG-SPY\_IGRSX VBIIX  GOOG YHOO  Retrieving quote data from the server. If this takes more than a few seconds kill the script and try again, the server has stalled in answering.  Open,High,Low,Close,Volume,Date  436.68,445.75,434.10,442.60,6554500,16 Jul 2009  433.00,435.48,426.70,430.25,6854100,17 Jul 2009  429.88,432.85,426.25,430.17,3153500,20 Jul 2009  430.94,431.90,425.72,427.90,2968200,21 Jul 2009  428.00,430.20,423.50,427.69,2586700,22 Jul 2009  428.68,441.21,425.50,437.34,3478200,23 Jul 2009  435.81,450.49,435.00,446.72,3626900,24 Jul 2009  446.04,446.75,437.61,444.80,2504400,27 Jul 2009  441.00,442.81,436.10,439.85,2532500,28 Jul 2009  437.23,437.80,431.89,436.24,1987000,29 Jul 2009  442.61,451.47,442.61,445.64,3198600,30 Jul 2009  449.98,452.70,442.43,443.05,2860400,31 Jul 2009  448.74,453.90,447.64,452.21,2590300,3 Aug 2009  449.37,454.00,448.43,453.73,2389800,4 Aug 2009  456.00,456.91,447.88,451.14,2342000,5 Aug 2009  454.30,454.88,448.53,450.36,2110900,6 Aug 2009  455.67,459.42,454.99,457.10,2543100,7 Aug 2009  455.14,458.41,453.79,456.61,1742000,10 Aug 2009  453.67,457.23,452.38,453.94,1712500,11 Aug 2009  455.41,461.75,454.92,458.58,2341400,12 Aug 2009  462.15,464.72,458.91,462.28,1995200,13 Aug 2009  462.78,463.18,456.89,460.00,1675100,14 Aug 2009  Open,High,Low,Close,Volume,Date  15.80,16.25,15.78,16.19,21919500,16 Jul 2009  16.75,16.91,16.45,16.84,32514700,17 Jul 2009  17.18,17.43,16.65,17.01,27760800,20 Jul 2009  17.05,17.11,16.44,16.75,33601800,21 Jul 2009  16.19,17.48,16.12,17.37,53615500,22 Jul 2009  17.41,17.68,17.16,17.36,37524900,23 Jul 2009  17.43,17.59,17.02,17.48,19944700,24 Jul 2009  17.37,17.48,16.85,17.00,19951800,27 Jul 2009  16.97,17.49,16.52,17.22,36152600,28 Jul 2009  16.00,16.20,15.05,15.14,126807700,29 Jul 2009  15.13,15.14,14.24,14.60,100889000,30 Jul 2009  14.72,14.89,14.29,14.32,62659900,31 Jul 2009  14.56,14.62,14.30,14.34,43976900,3 Aug 2009  14.44,14.68,14.37,14.51,43084800,4 Aug 2009  14.76,14.91,14.61,14.67,50910100,5 Aug 2009  14.76,14.86,14.63,14.74,35659500,6 Aug 2009  14.86,14.90,14.56,14.62,28261000,7 Aug 2009  14.66,14.68,14.49,14.63,18350900,10 Aug 2009  14.54,14.65,14.33,14.46,17823200,11 Aug 2009  14.47,14.76,14.41,14.68,24256200,12 Aug 2009  14.74,15.07,14.61,15.04,40193000,13 Aug 2009  14.98,15.14,14.85,15.04,28817100,14 Aug 2009  Stock data retrieval successful. |
| 12 | > You must put the stock symbol after the -s flag | > You must put the stock symbol after the -s flag |
| 13 | See test 0. | See test 0. |
| 14 | > Retrieving quote data from the server. If this takes more than a few seconds kill the script and try again, the server has stalled in answering.  No such file or directory at stock\_quote.pl line 427, <DATA> line 335. | > Retrieving quote data from the server. If this takes more than a few seconds kill the script and try again, the server has stalled in answering.  No such file or directory at stock\_quote.pl line 427, <DATA> line 335. |
| 15 | See test 1. | See test 1. |
| 16 | > Please list the stock symbols for the quotes to retrieve. Must be separated by a single space a - or a \_  Like this: GOOG-SPY\_IGRSX VBIIX  GOOG YHOO  Retrieving quote data from the server. If this takes more than a few seconds kill the script and try again, the server has stalled in answering.  No such file or directory at stock\_quote.pl line 427, <STDIN> line 1. | > Please list the stock symbols for the quotes to retrieve. Must be separated by a single space a - or a \_  Like this: GOOG-SPY\_IGRSX VBIIX  GOOG YHOO  Retrieving quote data from the server. If this takes more than a few seconds kill the script and try again, the server has stalled in answering.  No such file or directory at stock\_quote.pl line 427, <STDIN> line 1. |
| 17 | See test 0. | See test 0. |
| 18 | Open,High,Low,Close,Volume,Date  436.68,445.75,434.10,442.60,6554500,16 Jul 2009  433.00,435.48,426.70,430.25,6854100,17 Jul 2009  429.88,432.85,426.25,430.17,3153500,20 Jul 2009  430.94,431.90,425.72,427.90,2968200,21 Jul 2009  428.00,430.20,423.50,427.69,2586700,22 Jul 2009  428.68,441.21,425.50,437.34,3478200,23 Jul 2009  435.81,450.49,435.00,446.72,3626900,24 Jul 2009  446.04,446.75,437.61,444.80,2504400,27 Jul 2009  441.00,442.81,436.10,439.85,2532500,28 Jul 2009  437.23,437.80,431.89,436.24,1987000,29 Jul 2009  442.61,451.47,442.61,445.64,3198600,30 Jul 2009  449.98,452.70,442.43,443.05,2860400,31 Jul 2009  448.74,453.90,447.64,452.21,2590300,3 Aug 2009  449.37,454.00,448.43,453.73,2389800,4 Aug 2009  456.00,456.91,447.88,451.14,2342000,5 Aug 2009  454.30,454.88,448.53,450.36,2110900,6 Aug 2009  455.67,459.42,454.99,457.10,2543100,7 Aug 2009  455.14,458.41,453.79,456.61,1742000,10 Aug 2009  453.67,457.23,452.38,453.94,1712500,11 Aug 2009  455.41,461.75,454.92,458.58,2341400,12 Aug 2009  462.15,464.72,458.91,462.28,1995200,13 Aug 2009  462.78,463.18,456.89,460.00,1675100,14 Aug 2009  Open,High,Low,Close,Volume,Date  436.68,445.75,434.10,442.60,6554500,16 Jul 2009  433.00,435.48,426.70,430.25,6854100,17 Jul 2009  429.88,432.85,426.25,430.17,3153500,20 Jul 2009  430.94,431.90,425.72,427.90,2968200,21 Jul 2009  428.00,430.20,423.50,427.69,2586700,22 Jul 2009  428.68,441.21,425.50,437.34,3478200,23 Jul 2009  435.81,450.49,435.00,446.72,3626900,24 Jul 2009  446.04,446.75,437.61,444.80,2504400,27 Jul 2009  441.00,442.81,436.10,439.85,2532500,28 Jul 2009  437.23,437.80,431.89,436.24,1987000,29 Jul 2009  442.61,451.47,442.61,445.64,3198600,30 Jul 2009  449.98,452.70,442.43,443.05,2860400,31 Jul 2009  448.74,453.90,447.64,452.21,2590300,3 Aug 2009  449.37,454.00,448.43,453.73,2389800,4 Aug 2009  456.00,456.91,447.88,451.14,2342000,5 Aug 2009  454.30,454.88,448.53,450.36,2110900,6 Aug 2009  455.67,459.42,454.99,457.10,2543100,7 Aug 2009  455.14,458.41,453.79,456.61,1742000,10 Aug 2009  453.67,457.23,452.38,453.94,1712500,11 Aug 2009  455.41,461.75,454.92,458.58,2341400,12 Aug 2009  462.15,464.72,458.91,462.28,1995200,13 Aug 2009  462.78,463.18,456.89,460.00,1675100,14 Aug 2009 | Open,High,Low,Close,Volume,Date  436.68,445.75,434.10,442.60,6554500,16 Jul 2009  433.00,435.48,426.70,430.25,6854100,17 Jul 2009  429.88,432.85,426.25,430.17,3153500,20 Jul 2009  430.94,431.90,425.72,427.90,2968200,21 Jul 2009  428.00,430.20,423.50,427.69,2586700,22 Jul 2009  428.68,441.21,425.50,437.34,3478200,23 Jul 2009  435.81,450.49,435.00,446.72,3626900,24 Jul 2009  446.04,446.75,437.61,444.80,2504400,27 Jul 2009  441.00,442.81,436.10,439.85,2532500,28 Jul 2009  437.23,437.80,431.89,436.24,1987000,29 Jul 2009  442.61,451.47,442.61,445.64,3198600,30 Jul 2009  449.98,452.70,442.43,443.05,2860400,31 Jul 2009  448.74,453.90,447.64,452.21,2590300,3 Aug 2009  449.37,454.00,448.43,453.73,2389800,4 Aug 2009  456.00,456.91,447.88,451.14,2342000,5 Aug 2009  454.30,454.88,448.53,450.36,2110900,6 Aug 2009  455.67,459.42,454.99,457.10,2543100,7 Aug 2009  455.14,458.41,453.79,456.61,1742000,10 Aug 2009  453.67,457.23,452.38,453.94,1712500,11 Aug 2009  455.41,461.75,454.92,458.58,2341400,12 Aug 2009  462.15,464.72,458.91,462.28,1995200,13 Aug 2009  462.78,463.18,456.89,460.00,1675100,14 Aug 2009  Open,High,Low,Close,Volume,Date  436.68,445.75,434.10,442.60,6554500,16 Jul 2009  433.00,435.48,426.70,430.25,6854100,17 Jul 2009  429.88,432.85,426.25,430.17,3153500,20 Jul 2009  430.94,431.90,425.72,427.90,2968200,21 Jul 2009  428.00,430.20,423.50,427.69,2586700,22 Jul 2009  428.68,441.21,425.50,437.34,3478200,23 Jul 2009  435.81,450.49,435.00,446.72,3626900,24 Jul 2009  446.04,446.75,437.61,444.80,2504400,27 Jul 2009  441.00,442.81,436.10,439.85,2532500,28 Jul 2009  437.23,437.80,431.89,436.24,1987000,29 Jul 2009  442.61,451.47,442.61,445.64,3198600,30 Jul 2009  449.98,452.70,442.43,443.05,2860400,31 Jul 2009  448.74,453.90,447.64,452.21,2590300,3 Aug 2009  449.37,454.00,448.43,453.73,2389800,4 Aug 2009  456.00,456.91,447.88,451.14,2342000,5 Aug 2009  454.30,454.88,448.53,450.36,2110900,6 Aug 2009  455.67,459.42,454.99,457.10,2543100,7 Aug 2009  455.14,458.41,453.79,456.61,1742000,10 Aug 2009  453.67,457.23,452.38,453.94,1712500,11 Aug 2009  455.41,461.75,454.92,458.58,2341400,12 Aug 2009  462.15,464.72,458.91,462.28,1995200,13 Aug 2009  462.78,463.18,456.89,460.00,1675100,14 Aug 2009 |
| 19 | See test 2. | See test 2. |
| 20 | See test 3. | See test 3. |
| 21 | See test 0. | See test 0. |
| 22 | See test 1. | See test 1. |
| 23 | See test 0. | See test 0. |
| 24 | 436.68,445.75,434.10,442.60,6554500,16 Jul 2009  433.00,435.48,426.70,430.25,6854100,17 Jul 2009  429.88,432.85,426.25,430.17,3153500,20 Jul 2009  430.94,431.90,425.72,427.90,2968200,21 Jul 2009  428.00,430.20,423.50,427.69,2586700,22 Jul 2009  428.68,441.21,425.50,437.34,3478200,23 Jul 2009  435.81,450.49,435.00,446.72,3626900,24 Jul 2009  446.04,446.75,437.61,444.80,2504400,27 Jul 2009  441.00,442.81,436.10,439.85,2532500,28 Jul 2009  437.23,437.80,431.89,436.24,1987000,29 Jul 2009  442.61,451.47,442.61,445.64,3198600,30 Jul 2009  449.98,452.70,442.43,443.05,2860400,31 Jul 2009  448.74,453.90,447.64,452.21,2590300,3 Aug 2009  449.37,454.00,448.43,453.73,2389800,4 Aug 2009  456.00,456.91,447.88,451.14,2342000,5 Aug 2009  454.30,454.88,448.53,450.36,2110900,6 Aug 2009  455.67,459.42,454.99,457.10,2543100,7 Aug 2009  455.14,458.41,453.79,456.61,1742000,10 Aug 2009  453.67,457.23,452.38,453.94,1712500,11 Aug 2009  455.41,461.75,454.92,458.58,2341400,12 Aug 2009  462.15,464.72,458.91,462.28,1995200,13 Aug 2009  462.78,463.18,456.89,460.00,1675100,14 Aug 2009 | 436.68,445.75,434.10,442.60,6554500,16 Jul 2009  433.00,435.48,426.70,430.25,6854100,17 Jul 2009  429.88,432.85,426.25,430.17,3153500,20 Jul 2009  430.94,431.90,425.72,427.90,2968200,21 Jul 2009  428.00,430.20,423.50,427.69,2586700,22 Jul 2009  428.68,441.21,425.50,437.34,3478200,23 Jul 2009  435.81,450.49,435.00,446.72,3626900,24 Jul 2009  446.04,446.75,437.61,444.80,2504400,27 Jul 2009  441.00,442.81,436.10,439.85,2532500,28 Jul 2009  437.23,437.80,431.89,436.24,1987000,29 Jul 2009  442.61,451.47,442.61,445.64,3198600,30 Jul 2009  449.98,452.70,442.43,443.05,2860400,31 Jul 2009  448.74,453.90,447.64,452.21,2590300,3 Aug 2009  449.37,454.00,448.43,453.73,2389800,4 Aug 2009  456.00,456.91,447.88,451.14,2342000,5 Aug 2009  454.30,454.88,448.53,450.36,2110900,6 Aug 2009  455.67,459.42,454.99,457.10,2543100,7 Aug 2009  455.14,458.41,453.79,456.61,1742000,10 Aug 2009  453.67,457.23,452.38,453.94,1712500,11 Aug 2009  455.41,461.75,454.92,458.58,2341400,12 Aug 2009  462.15,464.72,458.91,462.28,1995200,13 Aug 2009  462.78,463.18,456.89,460.00,1675100,14 Aug 2009 |
| 25 | > ==================== Help file: ====================  How to run this program:  perl stock\_quote.pl -s SYM -t | -b MM.DD.YYYY -e MM.DD.YYYY -p "path/subdirectory" [other flags]  -s Specify the stock symbol to retreive data for.  Omit this option to be prompted for a list of symbols.  -t Get today's quote data.  -b Specify the start date for quote data retreival in the format "MM.DD.YYYY"  Must be used with -e and cannot be used with -t  MM, DD, and YYYY do not need to be the specified length  -e Specify the end date for quote data retreival in the format "MM.DD.YYYY"  Must be used with -b and cannot be used with -t  MM, DD, and YYYY do not need to be the specified length  You may use . / - \_ characters to separate the number values  -p The directory where to store the quote data. Must end in a / and be surrouned by ""s  -h Include the table header in the output.  -d Delete the current quote data and store the newly retreived data.  Omit this option to append the retreived data to the previous data.  -a Adjust the quote data to scale to the adjusted close.  -help Display this help file.  Omitting all arguments at the command line will also display this help file.  All arguments may be submitted in upper or lower case and will be accepted either way.  Died at stock\_quote.pl line 30, <DATA> line 335. | > ==================== Help file: ====================  How to run this program:  perl stock\_quote.pl -s SYM -t | -b MM.DD.YYYY -e MM.DD.YYYY -p "path/subdirectory" [other flags]  -s Specify the stock symbol to retreive data for.  Omit this option to be prompted for a list of symbols.  -t Get today's quote data.  -b Specify the start date for quote data retreival in the format "MM.DD.YYYY"  Must be used with -e and cannot be used with -t  MM, DD, and YYYY do not need to be the specified length  -e Specify the end date for quote data retreival in the format "MM.DD.YYYY"  Must be used with -b and cannot be used with -t  MM, DD, and YYYY do not need to be the specified length  You may use . / - \_ characters to separate the number values  -p The directory where to store the quote data. Must end in a / and be surrouned by ""s  -h Include the table header in the output.  -d Delete the current quote data and store the newly retreived data.  Omit this option to append the retreived data to the previous data.  -a Adjust the quote data to scale to the adjusted close.  -help Display this help file.  Omitting all arguments at the command line will also display this help file.  All arguments may be submitted in upper or lower case and will be accepted either way.  Died at stock\_quote.pl line 30, <DATA> line 335. |
| 26 | > ==================== Help file: ====================  How to run this program:  perl stock\_quote.pl -s SYM -t | -b MM.DD.YYYY -e MM.DD.YYYY -p "path/subdirectory" [other flags]  -s Specify the stock symbol to retreive data for.  Omit this option to be prompted for a list of symbols.  -t Get today's quote data.  -b Specify the start date for quote data retreival in the format "MM.DD.YYYY"  Must be used with -e and cannot be used with -t  MM, DD, and YYYY do not need to be the specified length  -e Specify the end date for quote data retreival in the format "MM.DD.YYYY"  Must be used with -b and cannot be used with -t  MM, DD, and YYYY do not need to be the specified length  You may use . / - \_ characters to separate the number values  -p The directory where to store the quote data. Must end in a / and be surrouned by ""s  -h Include the table header in the output.  -d Delete the current quote data and store the newly retreived data.  Omit this option to append the retreived data to the previous data.  -a Adjust the quote data to scale to the adjusted close.  -help Display this help file.  Omitting all arguments at the command line will also display this help file.  All arguments may be submitted in upper or lower case and will be accepted either way.  Died at stock\_quote.pl line 30, <DATA> line 335. | > ==================== Help file: ====================  How to run this program:  perl stock\_quote.pl -s SYM -t | -b MM.DD.YYYY -e MM.DD.YYYY -p "path/subdirectory" [other flags]  -s Specify the stock symbol to retreive data for.  Omit this option to be prompted for a list of symbols.  -t Get today's quote data.  -b Specify the start date for quote data retreival in the format "MM.DD.YYYY"  Must be used with -e and cannot be used with -t  MM, DD, and YYYY do not need to be the specified length  -e Specify the end date for quote data retreival in the format "MM.DD.YYYY"  Must be used with -b and cannot be used with -t  MM, DD, and YYYY do not need to be the specified length  You may use . / - \_ characters to separate the number values  -p The directory where to store the quote data. Must end in a / and be surrouned by ""s  -h Include the table header in the output.  -d Delete the current quote data and store the newly retreived data.  Omit this option to append the retreived data to the previous data.  -a Adjust the quote data to scale to the adjusted close.  -help Display this help file.  Omitting all arguments at the command line will also display this help file.  All arguments may be submitted in upper or lower case and will be accepted either way.  Died at stock\_quote.pl line 30, <DATA> line 335. |
| 27 | See test 0. | See test 0. |
| 28 | See test 0. | See test 0. |
| 29 | See test 0. | See test 0. |
| 30 | See test 0. | See test 0. |
| 31 | See test 1. | See test 1. |
| 32 | Adjusted quote numbers. | 46.11,46.50,45.98,46.22,1740100,16 Jul 2009  46.28,46.28,45.20,45.44,2994800,17 Jul 2009  45.58,45.92,45.28,45.83,1828100,20 Jul 2009  46.08,46.35,45.51,45.82,1465400,21 Jul 2009  45.95,46.23,45.58,45.94,1259800,22 Jul 2009  45.99,46.64,45.91,46.36,1723300,23 Jul 2009  46.24,46.42,45.94,46.16,1754600,24 Jul 2009  46.28,46.33,45.70,46.09,1798000,27 Jul 2009  45.83,46.19,45.65,46.06,1855800,28 Jul 2009  45.89,46.40,45.86,46.27,3204300,29 Jul 2009  47.41,47.41,45.77,45.91,5324800,30 Jul 2009  45.59,46.13,45.59,45.75,2849700,31 Jul 2009  46.04,46.04,45.02,45.22,2530400,3 Aug 2009  45.23,45.37,44.73,44.86,2439300,4 Aug 2009  44.80,44.97,44.42,44.58,2758100,5 Aug 2009  44.70,45.23,44.47,44.84,2375300,6 Aug 2009  45.19,45.19,44.46,44.46,1921000,7 Aug 2009  44.50,44.69,44.36,44.39,1646800,10 Aug 2009  44.34,44.70,44.32,44.47,2121100,11 Aug 2009  44.44,44.94,44.23,44.55,2426900,12 Aug 2009  44.79,44.79,44.27,44.27,2522700,13 Aug 2009  44.34,44.55,44.19,44.37,2954600,14 Aug 2009 |
| 33 | Adjusted quote data. | 46.11,46.50,45.98,46.22,1740100,16 Jul 2009  46.28,46.28,45.20,45.44,2994800,17 Jul 2009  45.58,45.92,45.28,45.83,1828100,20 Jul 2009  46.08,46.35,45.51,45.82,1465400,21 Jul 2009  45.95,46.23,45.58,45.94,1259800,22 Jul 2009  45.99,46.64,45.91,46.36,1723300,23 Jul 2009  46.24,46.42,45.94,46.16,1754600,24 Jul 2009  46.28,46.33,45.70,46.09,1798000,27 Jul 2009  45.83,46.19,45.65,46.06,1855800,28 Jul 2009  45.89,46.40,45.86,46.27,3204300,29 Jul 2009  47.41,47.41,45.77,45.91,5324800,30 Jul 2009  45.59,46.13,45.59,45.75,2849700,31 Jul 2009  46.04,46.04,45.02,45.22,2530400,3 Aug 2009  45.23,45.37,44.73,44.86,2439300,4 Aug 2009  44.80,44.97,44.42,44.58,2758100,5 Aug 2009  44.70,45.23,44.47,44.84,2375300,6 Aug 2009  45.19,45.19,44.46,44.46,1921000,7 Aug 2009  44.50,44.69,44.36,44.39,1646800,10 Aug 2009  44.34,44.70,44.32,44.47,2121100,11 Aug 2009  44.44,44.94,44.23,44.55,2426900,12 Aug 2009  44.79,44.79,44.27,44.27,2522700,13 Aug 2009  44.34,44.55,44.19,44.37,2954600,14 Aug 2009  15.80,16.25,15.78,16.19,21919500,16 Jul 2009  16.75,16.91,16.45,16.84,32514700,17 Jul 2009  17.18,17.43,16.65,17.01,27760800,20 Jul 2009  17.05,17.11,16.44,16.75,33601800,21 Jul 2009  16.19,17.48,16.12,17.37,53615500,22 Jul 2009  17.41,17.68,17.16,17.36,37524900,23 Jul 2009  17.43,17.59,17.02,17.48,19944700,24 Jul 2009  17.37,17.48,16.85,17.00,19951800,27 Jul 2009  16.97,17.49,16.52,17.22,36152600,28 Jul 2009  16.00,16.20,15.05,15.14,126807700,29 Jul 2009  15.13,15.14,14.24,14.60,100889000,30 Jul 2009  14.72,14.89,14.29,14.32,62659900,31 Jul 2009  14.56,14.62,14.30,14.34,43976900,3 Aug 2009  14.44,14.68,14.37,14.51,43084800,4 Aug 2009  14.76,14.91,14.61,14.67,50910100,5 Aug 2009  14.76,14.86,14.63,14.74,35659500,6 Aug 2009  14.86,14.90,14.56,14.62,28261000,7 Aug 2009  14.66,14.68,14.49,14.63,18350900,10 Aug 2009  14.54,14.65,14.33,14.46,17823200,11 Aug 2009  14.47,14.76,14.41,14.68,24256200,12 Aug 2009  14.74,15.07,14.61,15.04,40193000,13 Aug 2009  14.98,15.14,14.85,15.04,28817100,14 Aug 2009 |
| 34 | Open,High,Low,Close,Volume,Date  436.68,445.75,434.10,442.60,6554500,16 Jul 2009  433.00,435.48,426.70,430.25,6854100,17 Jul 2009  429.88,432.85,426.25,430.17,3153500,20 Jul 2009  430.94,431.90,425.72,427.90,2968200,21 Jul 2009  428.00,430.20,423.50,427.69,2586700,22 Jul 2009  428.68,441.21,425.50,437.34,3478200,23 Jul 2009  435.81,450.49,435.00,446.72,3626900,24 Jul 2009  446.04,446.75,437.61,444.80,2504400,27 Jul 2009  441.00,442.81,436.10,439.85,2532500,28 Jul 2009  437.23,437.80,431.89,436.24,1987000,29 Jul 2009  442.61,451.47,442.61,445.64,3198600,30 Jul 2009  449.98,452.70,442.43,443.05,2860400,31 Jul 2009  448.74,453.90,447.64,452.21,2590300,3 Aug 2009  449.37,454.00,448.43,453.73,2389800,4 Aug 2009  456.00,456.91,447.88,451.14,2342000,5 Aug 2009  454.30,454.88,448.53,450.36,2110900,6 Aug 2009  455.67,459.42,454.99,457.10,2543100,7 Aug 2009  455.14,458.41,453.79,456.61,1742000,10 Aug 2009  453.67,457.23,452.38,453.94,1712500,11 Aug 2009  455.41,461.75,454.92,458.58,2341400,12 Aug 2009  462.15,464.72,458.91,462.28,1995200,13 Aug 2009  462.78,463.18,456.89,460.00,1675100,14 Aug 2009 | Open,High,Low,Close,Volume,Date  436.68,445.75,434.10,442.60,6554500,16 Jul 2009  433.00,435.48,426.70,430.25,6854100,17 Jul 2009  429.88,432.85,426.25,430.17,3153500,20 Jul 2009  430.94,431.90,425.72,427.90,2968200,21 Jul 2009  428.00,430.20,423.50,427.69,2586700,22 Jul 2009  428.68,441.21,425.50,437.34,3478200,23 Jul 2009  435.81,450.49,435.00,446.72,3626900,24 Jul 2009  446.04,446.75,437.61,444.80,2504400,27 Jul 2009  441.00,442.81,436.10,439.85,2532500,28 Jul 2009  437.23,437.80,431.89,436.24,1987000,29 Jul 2009  442.61,451.47,442.61,445.64,3198600,30 Jul 2009  449.98,452.70,442.43,443.05,2860400,31 Jul 2009  448.74,453.90,447.64,452.21,2590300,3 Aug 2009  449.37,454.00,448.43,453.73,2389800,4 Aug 2009  456.00,456.91,447.88,451.14,2342000,5 Aug 2009  454.30,454.88,448.53,450.36,2110900,6 Aug 2009  455.67,459.42,454.99,457.10,2543100,7 Aug 2009  455.14,458.41,453.79,456.61,1742000,10 Aug 2009  453.67,457.23,452.38,453.94,1712500,11 Aug 2009  455.41,461.75,454.92,458.58,2341400,12 Aug 2009  462.15,464.72,458.91,462.28,1995200,13 Aug 2009  462.78,463.18,456.89,460.00,1675100,14 Aug 2009 |