

Stock Quote Test Cases

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1. 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.

2. 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	-s GOOG -b 7/16/2009 -e 8/16/2009 -d -p "./"	PASS

	header.		
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

3. 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	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	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	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	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	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

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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	> 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

	<p>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.</p>	<p>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.</p>
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	<p>> 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.</p>	<p>> 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.</p>
15	See test 1.	See test 1.
16	<p>> 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</p>	<p>> 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</p>

	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.	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	<p>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</p> <p>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</p>	<p>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</p> <p>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</p>

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	<p>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</p>	<p>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</p>
25	<p>> ===== Help file: =====</p> <p>How to run this program:</p> <p>perl stock_quote.pl -s SYM -t -b MM.DD.YYYY -e MM.DD.YYYY -p "path/subdirectory" [other flags]</p> <p>-s Specify the stock symbol to retrieve data for. Omit this option to be prompted for a list of symbols.</p> <p>-t Get today's quote data.</p> <p>-b Specify the start date for quote data retrieval 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</p> <p>-e Specify the end date for quote data retrieval 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> <p>-p The directory where to store the quote data. Must end in a / and be surrounded by ""s</p>	<p>> ===== Help file: =====</p> <p>How to run this program:</p> <p>perl stock_quote.pl -s SYM -t -b MM.DD.YYYY -e MM.DD.YYYY -p "path/subdirectory" [other flags]</p> <p>-s Specify the stock symbol to retrieve data for. Omit this option to be prompted for a list of symbols.</p> <p>-t Get today's quote data.</p> <p>-b Specify the start date for quote data retrieval 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</p> <p>-e Specify the end date for quote data retrieval 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> <p>-p The directory where to store the quote data. Must end in a / and be surrounded by ""s</p>

	<p>-h Include the table header in the output.</p> <p>-d Delete the current quote data and store the newly retrieved data.</p> <p>Omit this option to append the retrieved data to the previous data.</p> <p>-a Adjust the quote data to scale to the adjusted close.</p> <p>-help Display this help file.</p> <p>Omitting all arguments at the command line will also display this help file.</p> <p>All arguments may be submitted in upper or lower case and will be accepted either way.</p> <p>Died at stock_quote.pl line 30, <DATA> line 335.</p>	<p>-h Include the table header in the output.</p> <p>-d Delete the current quote data and store the newly retrieved data.</p> <p>Omit this option to append the retrieved data to the previous data.</p> <p>-a Adjust the quote data to scale to the adjusted close.</p> <p>-help Display this help file.</p> <p>Omitting all arguments at the command line will also display this help file.</p> <p>All arguments may be submitted in upper or lower case and will be accepted either way.</p> <p>Died at stock_quote.pl line 30, <DATA> line 335.</p>
26	<p>> ===== Help file: =====</p> <p>How to run this program:</p> <p>perl stock_quote.pl -s SYM -t -b MM.DD.YYYY -e MM.DD.YYYY -p "path/subdirectory" [other flags]</p> <p>-s Specify the stock symbol to retrieve data for. Omit this option to be prompted for a list of symbols.</p> <p>-t Get today's quote data.</p> <p>-b Specify the start date for quote data retrieval 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</p> <p>-e Specify the end date for quote data retrieval 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> <p>-p The directory where to store the quote data. Must end in a / and be surrounded by ""s</p> <p>-h Include the table header in the output.</p> <p>-d Delete the current quote data and store the newly retrieved data.</p> <p>Omit this option to append the retrieved data to the previous data.</p> <p>-a Adjust the quote data to scale to the adjusted close.</p> <p>-help Display this help file.</p> <p>Omitting all arguments at the command line will also display this help file.</p> <p>All arguments may be submitted in upper or lower case and will be accepted either way.</p> <p>Died at stock_quote.pl line 30, <DATA> line 335.</p>	<p>> ===== Help file: =====</p> <p>How to run this program:</p> <p>perl stock_quote.pl -s SYM -t -b MM.DD.YYYY -e MM.DD.YYYY -p "path/subdirectory" [other flags]</p> <p>-s Specify the stock symbol to retrieve data for. Omit this option to be prompted for a list of symbols.</p> <p>-t Get today's quote data.</p> <p>-b Specify the start date for quote data retrieval 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</p> <p>-e Specify the end date for quote data retrieval 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> <p>-p The directory where to store the quote data. Must end in a / and be surrounded by ""s</p> <p>-h Include the table header in the output.</p> <p>-d Delete the current quote data and store the newly retrieved data.</p> <p>Omit this option to append the retrieved data to the previous data.</p> <p>-a Adjust the quote data to scale to the adjusted close.</p> <p>-help Display this help file.</p> <p>Omitting all arguments at the command line will also display this help file.</p> <p>All arguments may be submitted in upper or lower case and will be accepted either way.</p> <p>Died at stock_quote.pl line 30, <DATA> line 335.</p>
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