

Thank you for your interest in CQG.

Information

CQG is a privately held company, providing high quality software for the trading industry. CQG is an innovative real-time, graphic-enhanced quotation vendor - the only vendor that inserts all exchange corrections in real time to provide accurate, integrated information to traders for decision support. We provide sophisticated software and efficient, reliable market data.

You can find additional information about our company and descriptions of open positions on our website, www.cqg.com.

CQG's success is based on the intellectual power and professional skills of our developers. To give us objective basis for assessment of your professional skills, we ask you to complete our standard development assignment.

Assignment

The attached technical assignment should be implemented as **console applications in C++**. Don't invest your time in GUI development; command line input will be sufficient. **Input data/output results should go from/to files**. We have provided a minimum set of test cases for the assignments for your convenience (see test case in attached task).

Please, do your best with design (OOD), coding and documentation. We are looking not only for an elegant and intelligently designed solution, but also for production quality code with all the required error handling, comments and tests. Please keep in mind that architecture has to be flexible enough to allow your application to be extended in the future. However, the solutions should be kept as simple as possible.

What we are looking for

As a first step in evaluating your assignment, we will compile the source code using Microsoft Visual C++ and run the tests. Your code should compile and your application should return the correct results. After that, your code will be carefully inspected by CQG developers. In their review, they are looking for some of the following criteria. Additional tests and criteria may be used.

- Did the solution solve the problem?
- Did the solution demonstrate solid use of C++ and object oriented design?
- Was the code itself readable, of good quality, and scalable?
- Were the comments purposeful and well written?
- Did the solution compile, perform well, and handle bad input?

Please return your solutions to us **within a week**. As soon as you finish, please send **ZIP files** with project files, source code and your tests input/output results to me, and we will organize review of your materials. Please, don't attach any executable files.

Results

The code will be inspected by CQG developers, and feedback is typically given **within 3 days** of receiving your solution.

Let me know if you have any questions.

***Please confirm that you've received the tasks. Thank you.