



Carta Take Home Assessment

Preparation Guide

The next step in our process is a take-home assessment. Our goal is to give you the opportunity to showcase your technical strengths in practical, real work you would do in your day to day.

This assessment will be the team's biggest indicator of your technical ability during this process. We want to ensure you are prepared to succeed.

Here is what the team looks for in a successful take home:

We look for **correctness**. Double check that your tests work and include instructions. Concentrate on refactoring and ensure the README has detailed instructions.

Another piece we look for is **code clarity**. The team looks for production level code. Make sure code is readable, maintainable and make sure comments and formatting are consistent. We also look at the organization of the assessment as a whole. Make sure there is a clear structure for transactions and batches.

We look for **mastery of language**. Be sure to use libraries to help solve the problem. We look for demonstration of advanced language features (I.E f-string, rstrip, lstrip, defaultdict) and the use of appropriate data types to solve the problem.

Maintainability, extensibility, and testability. Concentrate to make your project maintainable, extendable, and testable. We look for the demonstration of dependency injection or the open-closed principle.

Lastly, we look for **robustness and efficiency**. Ensure effective error handling and demonstrate strong parallel processing techniques.