**Narrative: Software Engineering & Design**

After reviewing, I was able to clean up the code and comments in the program and ensure consistency throughout. I was also able to modularize many components of the program, including converting the architecture to use the Maven framework. I was also able to showcase my skills by integrating input validation, error-checking, and unit testing using JUnit. I also implemented a better user interface (and user experience) by customizing text colors and styles. I was able to communicate much better with the user this way – simply by adding ANSI escape codes and proper spacing!

I have improved both the overall enjoyability and robustness of the program, and I believe I have met all four of the course outcomes I planned on reaching. During this experience, I have strengthened my skills in software engineering and modification, as well my skills in user experience (UX) design and software security. I found creating unit tests to be a bit challenging, which is one reason I chose this enhancement. Being thorough and intentional is extremely important when designing these tests. I have enjoyed this process and look forward to future artifact enhancements.