

## Project 2 Summary

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1) For NumPy, my goal was to resolve a bug related to the incorrect behavior of the `np.arange` function when handling very large numbers. The process included studying the documentation, setting up the development environment, reproducing the issue, and analyzing the project code (written in C). Despite my efforts, I couldn't fully resolve the issue, but I gained valuable experience in contributing to a large-scale project and understanding its complex structure. This experience highlighted the challenges of choosing open-source projects based on complexity and unfamiliarity.

2) In the Pytest project, I worked on detailed documentation of functions and implementing improvements using Sphinx. The first task involved adding documentation and comments to the file `pytest/src/_pytest/main.py`. I reviewed specific lines of code and created documentation compatible with Sphinx. The main challenge was understanding the functions due to their technical details and complexity, but I managed to document some parts successfully. The second task focused on rewriting the Plugin Fetcher system in Pytest as a Sphinx extension. The initial steps involved studying related documentation, reviewing the code structure, and analyzing how the system worked. Although time constraints and the need for further learning prevented me from completing this task, I became more familiar with Sphinx extensions. Ultimately, this project provided me with valuable insights into Sphinx extensions, open-source documentation standards, and effective management of open-source contributions.