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I worked on the following parts in this project:

1. Implemented robust exception handling to catch and handle runtime errors gracefully.
2. Created and validated test cases to verify the correctness of the parallel algorithms.
3. Managed input-output operations, including reading input files and writing results to output files.
4. Designed helper functions to streamline repetitive tasks in the code.
5. Verified cross-boundary interactions to ensure consistency in grid updates across processes.
6. Integrated debugging checkpoints to identify and resolve errors during execution.
7. Developed functions to handle the special abilities of different factions in the simulation.
8. Optimized communication patterns to reduce overhead while maintaining correctness.
9. Simulated performance for different process configurations and documented the results.
10. Ensured adherence to good coding practices, including naming conventions and documentation.