

IMP Arrays

CMSC 631 Final Project

Cameron Bernhardt

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1 Proposal

For this project, I proposed adding arrays to the IMP language developed in class, with functionality for accessing and mutating elements of the list. After this addition, I intended to implement a simple sort (insertion sort) in IMP with this array construct and prove its correctness using Hoare triples.

2 Source Code

This project was implemented with Coq and the source code can be found [here](#).

3 Implementation Differences

4 Takeaways