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Project Report: JavaScript Spider Monkey

Unit Testing with Sufficient Coverage

- Unit Testing is not applicable to the project. An emphasis on automated testing was discussed.

Automated Testing

- Program Generator
 - <https://github.com/csun-comp587-s20/jsfuzzing/blob/master/grammar.py>
- Randomization
 - <https://github.com/csun-comp587-s20/jsfuzzing/blob/8824d1c6be467a8bff563ad5c7bcbd57a96c5c45/grammar.py#L4>
- Bound-Exhaustive
 - <https://github.com/csun-comp587-s20/jsfuzzing/blob/8824d1c6be467a8bff563ad5c7bcbd57a96c5c45/grammar.py#L163>

Lessons Learned

- Start with a smaller grammar because our initial grammar was more tedious to work with without actually improving the testing capabilities.
- Difficult to use randomness and still produce meaningful and interesting programs.
- I would choose a code repository that is easier to run tests on.
- Incorporating property testing could have been useful for the large code base.