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FILE: hw4-writeup.pdf

DATE: Spring 2023

DESC: This pdf will provide a short description of any challenges and/or issues I faced and how I addressed them in this assignment.

**Challenges faced:**

I faced many challenges on this assignment. The majority of them stemmed from confusion on how to implement interface classes in an efficient and readable way. It clicked for me when I realized I could set the value of Stmt variables to be any of the Stmt+ classes.

Another challenge I faced was related to how the Lexer handled IDs. I ran into an issue where the Lexer would continue building an ID even if it ran into a < or > because I did not include those two symbols as stopping points. This caused issues for things such as i<=1 that did not have a space between the i and symbols following it.

**Testing:**

All Tests Passing

./ast\_parser\_tests

Text

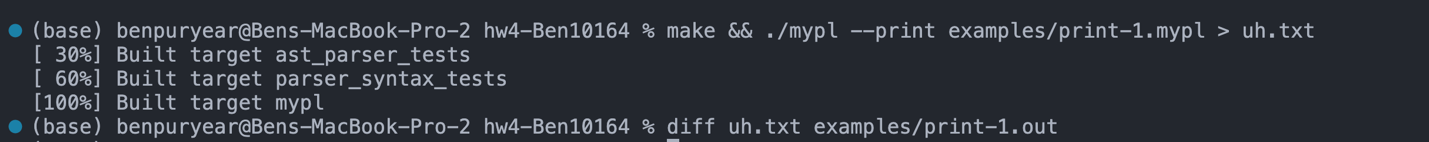
Description automatically generated

./parser\_syntax\_tests

Text

Description automatically generated

All Diff Outputs of Examples/print-#.mypl



Text, website

Description automatically generated

