

Meeting 2: P0, Abstract Syntax Trees, x86 Assembly



Today

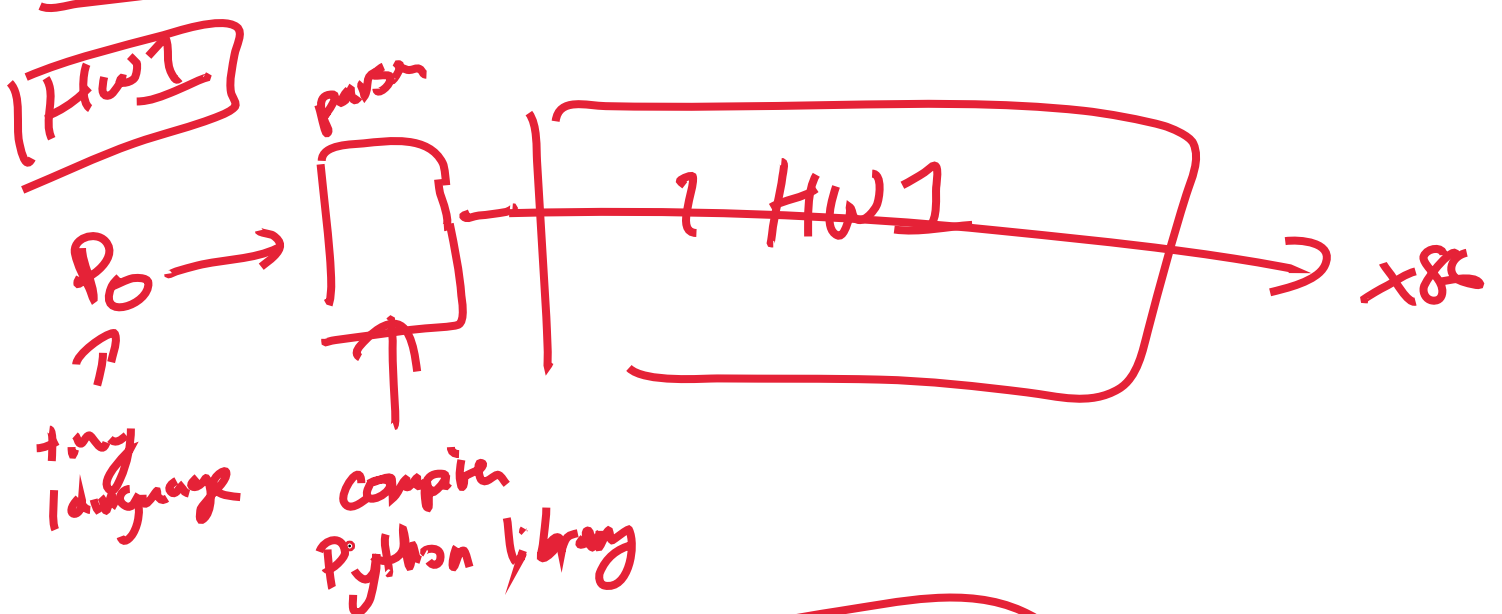
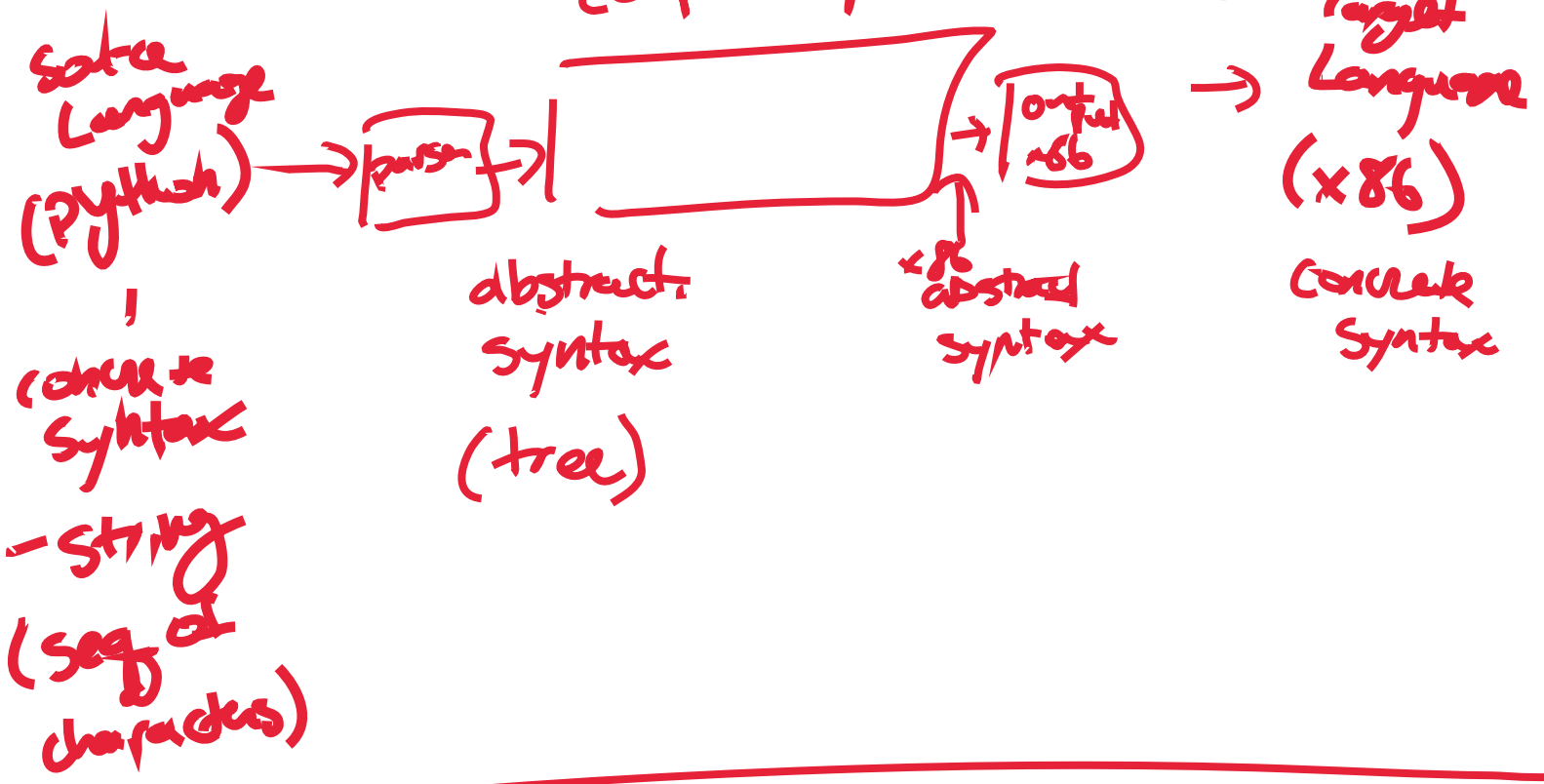
- Briefly: Course summary ✓
- Project-based course questions (i.e., how to succeed in 4555) ✓
- Syllabus questions ✓
- Chapter 1 questions }
- Homework 1 preview }
- PPL crash course (i.e., working with abstract syntax)

Questions

1. Tests ✓
2. What is the input language for HW1 (P0) ✓
3. Discard? ✓
4. Flatten ASTs to x86 ✓
5. Expr to flatten expr ✓
6. Environment / memory ✓

Compiler

- Figure / design on your own
compiler problem - lowering



$P_0 \subseteq P_1 \subseteq P_2 \subseteq P_3 \subseteq P_4$

P_0 — input(), ~~arithmetic~~
+, -, print, assignment
(variables)

Implementation: Python
Language