

CS 578 PL Semantics Homework 3 – due 4:40pm, Tuesday, Apr. 23, 2024

You should do all problems, but only those marked with an asterisk (*) must be submitted. (You may submit the others for feedback if you wish.)

Solutions may be submitted on paper at start of class, or by email before class.

Preparing your submission using latex is strongly suggested, but if your handwriting is sufficiently legible, hand-written submissions are also acceptable.

Email solutions should be sent to tolmach@pdx.edu, with the subject line “CS578 HW3” and one `.pdf` file as a simple attachment. (If your solution is handwritten, you must scan or photograph it, and produce `.pdf` for submission.)

0. Do Pierce 8.3.4. You don’t necessarily need to write out the proof in full, but do enough of it to see how the structure differs from the book’s proof for 8.3.3.

1. Do Pierce 8.3.6.

2. Do Pierce 8.3.7.

3. Do Pierce 9.2.1.

* 4. Do Pierce 9.2.2.

5. Do Pierce 9.3.2. (See errata page for changes to solution.)

* 6. Do Pierce 9.3.9. (See errata page for comment on the theorem.)

7. Do Pierce 9.3.10. (See errata page for changes to solution.)