

## CS 510 Semantics & Types Homework 4 – due noon, Thursday, Feb. 7, 2008

Homework must be submitted on paper in class. All programs mentioned can be downloaded via the course web page.

1. Do Pierce 11.4.1. (Part 1 only. Present a careful proof.)
2. Do Pierce 11.5.1.
3. Do Pierce 11.9.1.
4. Do Pierce 11.11.1. Use natural numbers as introduced in Chapter 3, assuming they form a type `Nat` with the obvious typing rules.
5. Do Pierce 11.12.1.
6. Do Pierce 11.12.2.