91.301, Organization of Programming Languages
Fall 2010, Prof. Yanco

Problem Set 5

Out: Thursday, 7 October 2010
Due: Tuesday, 19 October 2010

Overview: This problem set covers lists, trees, accumulate and symbols.

Use the R5RS language in DrScheme.

Problem 1
Exercise 2.30 on p. 112.

Problem 2
Exercise 2.31 on p. 113.

Problem 3
Exercise 2.54 on p. 145. (Yes, equal? is built into Scheme. In this exercise, you’ll write your own version.)

Problem 4
Exercise 2.55 on p. 145.

For the next two problems, you can get the symbolic differentiation code on the course web page.

Problem 5
Exercise 2.57 on p. 151.

Problem 6
Exercise 2.58, a only, on p. 151.

Additional Exercises for Honors Section:

Problem 7
Exercise 2.32 on p. 113.

Problem 8
Exercise 2.58b on p. 151.