**CSSE 304 Assignment 17 Updated for Spring, 2014**

**Reading:** See the schedule page

**Programming problems**. This group assignment is to be done by your interpreter team.

For each interpreter assignment, there will be a brief participation survey on Moodle.

**1. (60 points)** Add additional syntax to your interpreted language.

The new features to be added are letrec and named let.

You may implement **letrec** directly in the interpreter or *via* syntax-expand (your choice). In class we discussed a way to do letrec without mutation and another way to do it *via* mutating a ribcage environment; if you wish, you may instead use a syntax expansion approach similar to that of TSPL(near the middle of Section 4.4, 4.3 in TSPL3) which I also discussed in class . But this will require doing part of A18 first.

I suggest adding named **let** as a syntactic expansion (similar to TSPL section 3.2) rather than adding it directly to eval-exp.

The next assignment will be quite substantial (adding set!, define, and reference parameters). Since this assignment is small, I suggest that you do it early and get an early start on the next one.