## CSSE 304 Assignment 16 Updated for Spring, 2016.

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; or if you wish, you may instead use a syntax expansion approach similar to that of TSPL, near the middle of Section 4.4 in TSPL 4, which I also discussed in class. But this approach will require doing part of A17 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 more substantial (adding set!, define, and reference parameters). Since this assignment is small, I suggest that you finish it early and get an early start on the next one.