

CSSE 304 Assignment 16 Updated for Fall, 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.