

CSSE 304 Day 02 (we probably won't get to all of this today)

Estimated Schedule (I won't do this every day):

- a) Announcements & roll call (5 min)
- b) Your non-Scheme questions (5 minutes)
- c) Slides, mainly about lambda (5 minutes)
- d) Running the A1 test code offline (5 minutes)
- e) Scheme intro live code demo (20 minutes)
- f) Your questions about Scheme (10 minutes)
- g) I set an alarm for 10 minutes before the end of class to make sure that we have that time.
- h) If you run out of questions, back to live coding.

i) A place for notes on Student questions and instructor answers

Main ideas from today:

1. Most of today's content is in the live demo. But first,...
2. In Scheme, _____ is not a procedure. Instead it is syntax used to _____ procedures.
3. Which Maple operator is most like Scheme's *lambda*? _____
4. **(define list-sum** ; finds the sum of a list of numbers
(lambda (lon)
5. Your notes on the Scheme live coding (or follow along on your computer):

cond vs. case vs. nested if (via letter-to-number)

vector - sum (for 3D vectors as in A1 and A2)

largest-in-list

make-adder (not about snake creation!)

(positives '(2 -5 4 6 -2 -3 0 1)) → (2 4 6 1)

count-reflexive-pairs