

CS 357 - Lab 002

Session 3 cons Revisited

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Website: <http://cs.unm.edu/~kageweiss/TA/cs357.html> -- **SLIDES POSTED**

- Sign in by quiz today: see last slide for code
- Today we are reviewing cons!
- Please read the CODING STANDARDS and use the provided .scm as a base
- NOTE: Homework 1 has been graded, some delays, Homework 2 is grading much faster.

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Go forth,
write your software.

Remember, these slides are available:

cs.unm.edu/~kageweiss/TA/cs357.html

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Sign in code: (available for download)

```
(define val
  .... '(((t)) ((e)) ((s)) t))
)
(define answer
  .... ;; using only cons, '(), and 't 'e and 's
  .... ;; ..... no (cons ' (t)) ' ((e)) ((s)) t))
  .... ;; you may not (cons a b) unless (pair? b) => #t OR (null? b) => #t
  .... ;; you may not (cons a b c ...)
  .... ;; ..... no (cons ' ('s)) 't) allowed!
  .... ;; ..... must (cons ' (cons (cons 's '()) '()) (cons 't ' ()))
  ....
)
(define participation
  .... (equal? val answer)
)
participation
```

Hint: Don't do it all in one piece, break it down and test using a letrec, and the recombine the parts for the answer