

QUIZ

- Put everything away except a writing utensil
- When you've finished, flip over your quiz
- If you want to (quietly) go to the restroom, go on your phone/computer, etc., - please turn in your quiz first.

PLEASE BE MINDFUL OF THOSE STILL TAKING THE QUIZ



CSC-151 Spring 2026

Wednesday March 25

Today's Agenda

- ~~1. Quiz~~
2. Announcements
3. Reading Review
4. Lab
5. Wrap-up



Announcements

Coding Challenges

Coding Challenge 6 due Sunday

- Any questions?

Coding Challenge 4 & 5 graded

- CC4 Redo due Friday March 27

- CC5 Redo due Friday April 3

Computer science events

CS Table on Thursday at 4:15pm in Noyce 3821

- Snacks at 4pm!
- Talk title: The Quest for Transparency and Accountability in the Online Data Ecosystem
Speaker: Professor Rishab Nithyanand from the University of Iowa
- He has also offered to chat about grad school after the talk

Reading Review

01

Which of these two procedures is using tail recursion?

```
(define fun1
  (lambda (lst)
    (match lst
      [null {??}]
      [(cons head tail)
       (some-proc {??} (fun1 {??}))])))
```

02

How do you know that it's tail recursion?

```
(define fun2
  (lambda (n lst)
    (match lst
      [null null]
      [(cons head tail)
       (fun2 {??} (some-proc {??}))])))
```

03

What benefit is there to tail recursion over “regular” recursion?

Reading Review

04 Re-write this procedure using tail recursion.

```
(define factorial
  (lambda (n)
    (match n
      [0 1]
      [_ (* n (factorial (- n 1)))])))
```

Questions?

Lab Time



Upcoming & Reminders

- Work on Coding Challenge 6
- Work on revisions as needed

