CSC 151 Spring 2020
Topic: Recursion + Local Procedures

March 11, 2020

Day 22

Agenda for today

- Quiz 6 Feedback
- Exam 2 Questions?
- Install of Racket or MathLAN access
- Recursion + Local Procedures
- Lab
- Wrap-up

Quiz 6 Feedback

Academic Extra Credit

Thursday Extra: Thursday March 12, 4pm Noyce 3821
Topic: 4+1 Master's in CS with the University of Iowa

Exam 2 Questions?

Setting up your computers....

Helper Procedure

```
(define my-reverse
  (lambda (lst)
    (my-reverse-helper lst null)))

(define my-reverse-helper
  (lambda (remaining reversed-so-far)
    (if …
        reversed-so-far
        (my-reverse-helper ….  …. )
        )))
```

Letrec instead of using a Helper

```
(define my-reverse-letrec
  (lambda (lst)
    (letrec ([kernel (… ) ])
      ( … )
       )))
```

Named Let instead of using a Helper

```
(define my-reverse-named-let
  (lambda (lst)
    (let kernel ([ … ]
                 [ … ])
          ( … )
      )))
```

Lab Time

Start with the person on the East side of the room.