

Administrivia

- Questions about exam we need to answer today? (I'll probably ask this again Monday the 21st.)

Slide 1

Minute Essay From Last Lecture

- (Review.)

Slide 2

Recursion Run Amok

Slide 3

- Let's try to define integer arithmetic (for non-negative integers) without `ints` as follows:
 - Represent n as a list of n things (call this a `num`).
 - Define “primitive” operations:
 - * `boolean isZero(num N);`
 - * `num add1(num N);`
 - * `num sub1(num N);` (Gives runtime error if `isZero(N)`.)
 - Try to build arithmetic and relational operations using primitive operations and recursion ...
- Do you think this is doable in actual code? (Yes!) Will it be fast? (Not very! Particularly slow for exponentiation.)

Minute Essay

Slide 4

- None — sign in, and have a nice break!