

Scary Halloween

Mid-Term 2 Review!



Mid-Term 2

Topics covered:

- Program design for atomic data through lists (as in Mid-Term 1)
- Trees and mutually recursive data structures
- `local`, functions as values, and `lambda`
- Abstraction for functions and contracts
- Generative recursion and accumulators
- State and assignment

Outline

- ▶ **Mid-Term 2 Review**
- ▶ **Intro to Java**

Mid-Term Style

- In-class, open-book, open-notes, closed-computer
- Fill-in-the-blank
 - You'll receive a medium-sized program with gaps
 - Gaps can appear anywhere: data definition, contract, purpose, examples, implementation
- Examples to appear on the web page
 - Small example in class today
 - Another example with and without solution

Outline

- ▶ Mid-Term 2 Review
- ▶ Intro to Java

Java

Java is a programming language that was invented in the 90s

It's probably the most popular programming language right now

- Syntax looks like C/C++
- Semantics more like Lisp/Scheme/Smalltalk

CS 2020 uses Java

CS 3500 uses C++

Java in CS 2010 F03

Recent semesters of CS 2010 included a quick tour of Java during the last week of class

For a variety of reasons (especially the switch to MWF lectures) we've arrived at Java sooner

Furthermore, we'll

- approach Java in a different way than previous semesters
- continue to use DrScheme, in an experimental Java mode
- use an early draft of a HtDP-to-Java textbook



or



RumorMill example in DrScheme/ProfessorJ...