Scary Halloween

Mid-Term 2 Review!

Outline

➤➤ **Mid-Term 2 Review**

➤ **Intro to Java**

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

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

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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...