Scary Halloween

Mid-Term 2 Review!
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
• \texttt{local}, functions as values, and \texttt{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
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
RumorMill example in DrScheme/ProfessorJ...