CSCI 334: Principles of Programming Languages

Lecture 19: Parsing, part 2

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Topics

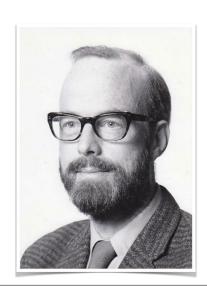
Using parser combinators

Your to-dos

- 1. Lab 7, due Sunday 4/24 (partner lab)
- 2. Reading response, due Wednesday 4/27.

Hoare Property

"There are two ways of constructing a software design: One way is to make it so simple that there are obviously no deficiencies, and the other way is to make it so complicated that there are no obvious deficiencies." — C.A.R. Hoare



Quiz

More details

- It is **critical** that you read the "Parser Combinators" reading.
- I suggest that you sit down, uninterrupted, for an hour or two, and work through the examples in fsharpi.
- The reading builds the Parsers.fs library that you are given for HW7.

Example: brace language

- An *expression* is a sequence of *terms*, consisting of *at least one term*.
- A term is either 'aaa', 'bbb', or a brace expression.
- A brace expression is '{', followed by an expression, followed by '}'.

Example: brace language

We will write a parser for this language next class.

Recap & Next Class

Today:

Parsing

Next class:

Program interpretation