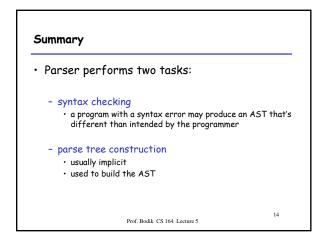
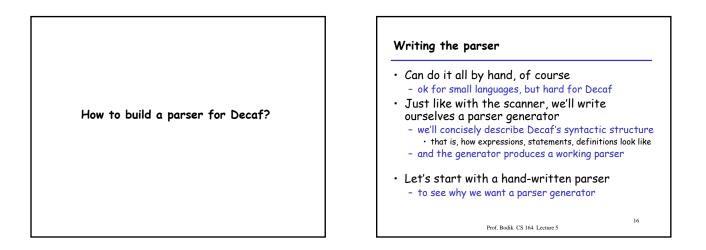


Phase	Input	Output
Lexer	Sequence of characters	Sequence of tokens
Parser	Sequence of tokens	AST, built from parse tree





## First example: balanced parens

- Our problem: check the syntax - are parentheses in input string balanced?
- The simple language
  - parenthesized number literals
  - Ex.: 3, (4), ((1)), (((2))), etc
- Before we look at the parser - why aren't finite automata sufficient for this task?

Prof. Bodik CS 164 Lecture 5

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