

Wednesday, September 9

Name SOLUTIONS

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Miniquiz #4

5 Minutes

Consider the following grammar:

$Start \rightarrow S$

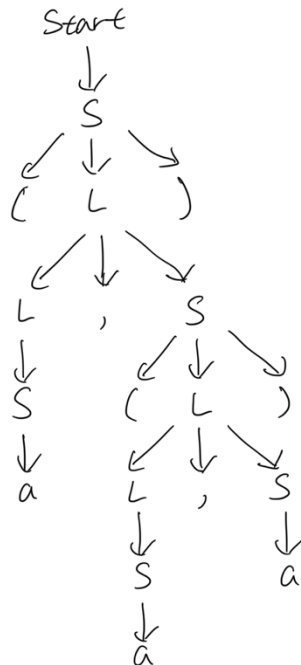
$S \rightarrow (L)$

$S \rightarrow a$

$L \rightarrow L, S$

$L \rightarrow S$

1. Give the parse tree for the string (a, (a, a))



2. What is the role of a lexer?

A lexer takes an input program and decomposes it into a sequence of tokens in the language, such as keywords and identifiers.