TEST 1

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Example

Given the grammar

$$E \rightarrow M$$
$$E \rightarrow E + M$$
$$M \rightarrow F$$
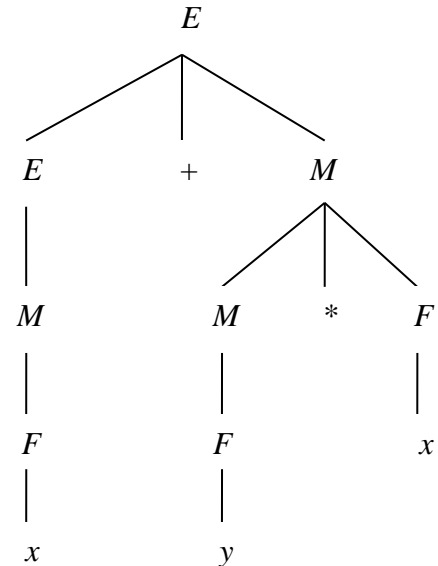$$M \rightarrow M * F$$
$$F \rightarrow x$$
$$F \rightarrow y$$
$$F \rightarrow (E)$$

and the string (5 tokens)

$$x + y * x$$

The parse tree is:

\<e\> ::= \<e\> '*' 'id'

\<e\> ::= 'id'

\<e\> ::= '*' 'id'

\<e\> ::= '(' \<e\> ')'

\<e\> ::= '(' 'id' ')' \<e\>

1. Is this grammar ambiguous?

2. Draw the parse tree(s) for the string

    (list)*list

    where **list** is a token with lexical type **'id'**