Theoretical_ Exercise

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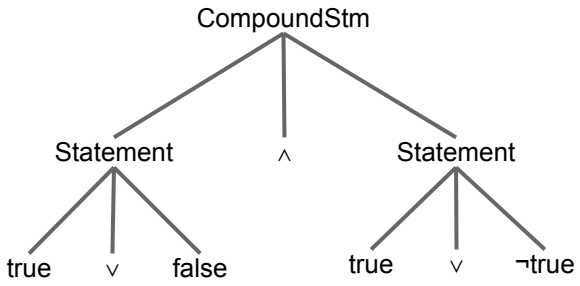
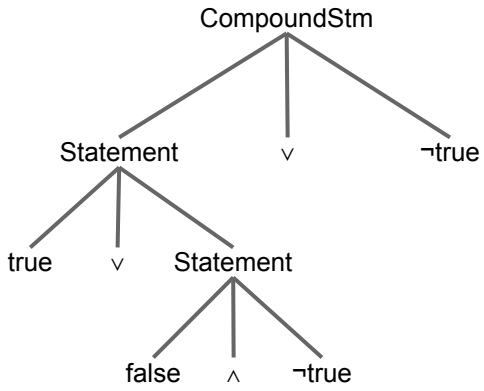
Theoretical Exercise - Week 6

Mandatory Theoretical Exercise

Show that the grammar is ambiguous by constructing two parse trees for the same expression.

true ∨ false ∧ true ∨ ¬true





Construct an unambiguous grammar for the same languages. The grammar should use BNF not EBNF.

E := F ∨ E
| F ∧ E
| F

F := ¬F
| true
| false
| (E)

Construct the parse tree of the following expression for using your new grammar:

false ∨ ¬true ∧ (false ∨ true) ∨ false