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Parse trees

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Which of the following statements are true of a parse tree?

☒ the root node of the tree corresponds to the starting symbol of the grammar

☒ the leaves of the tree correspond to terminals

☒ the internal nodes of the tree correspond to nonterminals

☐ only a grammar with recursive productions can generate a parse tree

☐ a parse tree is the same as an abstract syntax tree

Explanation

For the root, leaves, and internal nodes: see the example parse tree in the reading, and compare it against the grammar that produced it.

Every grammar can generate a parse tree, whether it has recursive productions or not.

A parse tree is a concrete syntax tree, not abstract. One key difference is that a parse tree has all the terminals in it, while an abstract syntax tree often throws away some of that detail, such as the delimiters '<i>' and '</i>'.

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