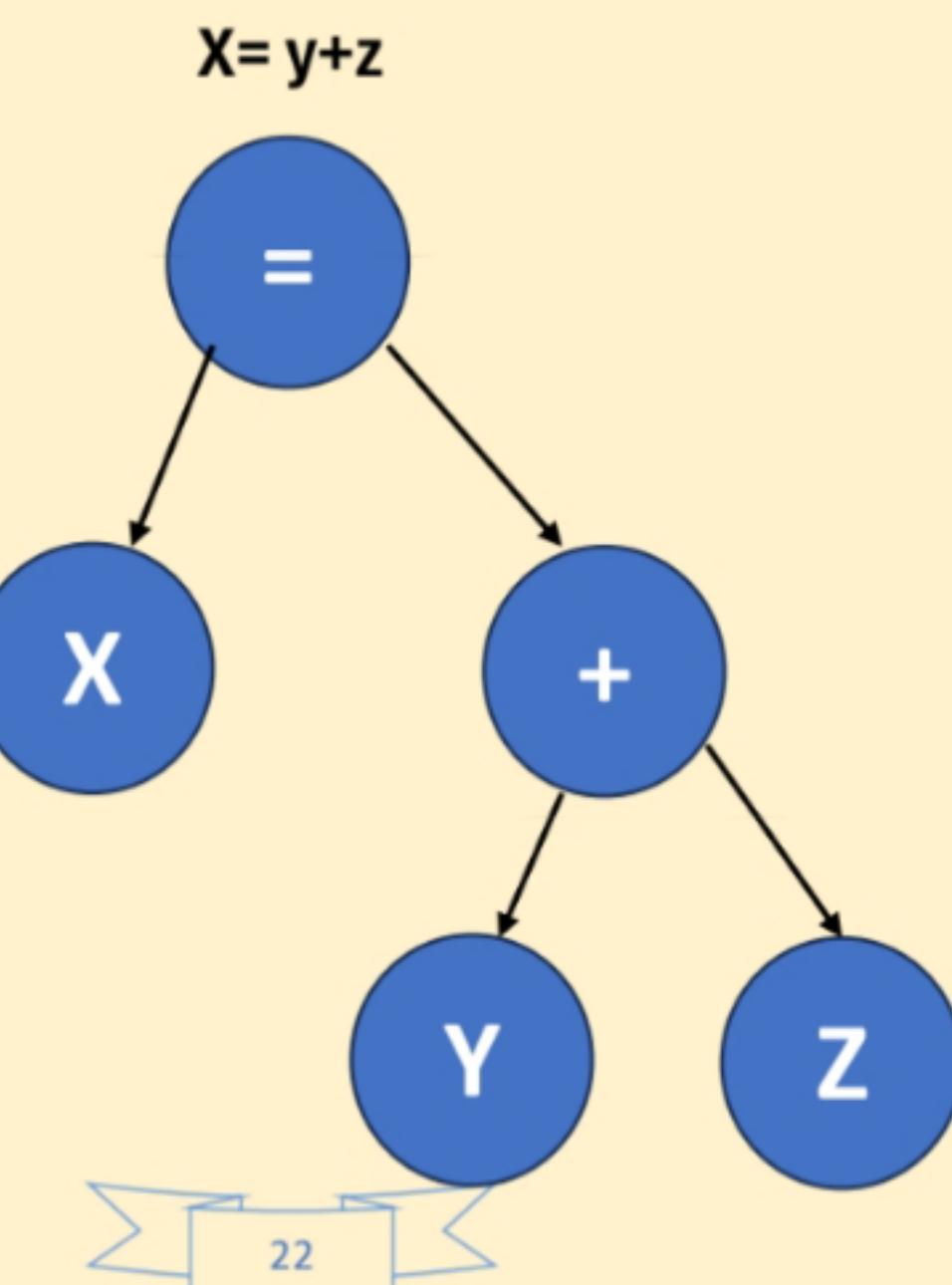


Process of parsing

For example, the statement



[LINUX OPERATING SYSTEM]

Parse tree

The parse tree of the statement in this form means that the first Y and Z will be added, and then its result will be assigned to X.

Context free grammars

Each programming language has got its own syntax (grammar).

A grammar naturally described the hierarchical structure of many process programming language constructs.

A context free grammar has four components.

- They set off terminal symbol like keywords for a programming language.
- Set of non-terminal symbols
- A set of production rules where each production consists of non-terminal called the left side of production. An arrow and a sequence of tokens and/or non-terminal guide the right side of tokens.
- A designation of one of the non-terminal as the start symbol.