

The syntax of Glados in Backus-Naur Form

`<program> ::= {<statement>}`

`<statement> ::= <var_declaration> | <function_declaration>`

`<var_declaration> ::= "let" <identifier> "=" <expression> ";"`

`<function_declaration> ::= "function" <identifier> "(" <parameter_list> ")" "{" <function_body> "}"`

`<parameter_list> ::= ϵ | <identifier> { "," <identifier> }`

`<function_body> ::= { <var_declaration> | <conditional_statement> | <return_statement> }`

`<conditional_statement> ::= "if" "(" <expression> ")" "{" <block> "}"`

`<block> ::= { <statement> | <return_statement> }`

`<return_statement> ::= "return" <identifier> ";"`

`<expression> ::= <term> { ("+" | "-" | "*" | "/" | "%") <term> }
 | <expression> "==" <expression>
 | <expression> "<" <expression>
 | <value>
 | <identifier>`

`<term> ::= <identifier>
 | <number>`

`<identifier> ::= [a-zA-Z0-9_]*`

`<value> ::= [0-9]*`