

Tokens

Family: comment |
number |
identifier | keyword | ϵ
keyword : - - - -
addOperator | mulOperator |

groupSymbol |

delimiter |

assignment |

rel Operator

Terminals

- number: $[1-9][0-9]^* \mid 0 \mid 1 \mid 2 \mid \dots \mid 9$

- identifier: $[a-zA-Z_][a-zA-Z_0-9]^*$

- add Operator: $+ \mid -$

- mul Operator: $* \mid /$

- group Symbol: $\{ \mid \} \mid (\mid) \mid [\mid]$

- delimiters: $, \mid . \mid ;$

- assignment: $:=$

- rel Operator:
smaller $<$
larger $>$
equal $=$

smaller: $< \mid <= \mid <>$

larger : $> | \geq$

equal : $=$

- Comment : $\#[*]\#$
-

Errors

- $\Sigma x_0 \lambda_{10} \rightarrow \text{EOF}(\cdot) \rightarrow$ unterminated comment error
- $(:) \rightarrow x_{0p1s} (=) \rightarrow$ assignment symbol syntax error
- digit $\rightarrow x_{paki} \rightarrow (\text{digit}) \rightarrow$ identifier syntax error
- unidentified keyword (while, hello)
- $\left(\begin{array}{l} \text{Identifier length} \rightarrow \leq 30 \\ \text{Integer size} \rightarrow \leq 2^{32} - 1 \end{array} \right)$

(...)

- Dot missing (...)