

# Gramática Linguagem L

$S \rightarrow DB$

$D \rightarrow \text{final id} \text{ "=" ["-"] const ";" } |$

$\text{Tipo id ["=" ["-"] const] \{ "," id ["=" [-] const] * ","$

$\text{Tipo} \rightarrow \text{int} | \text{byte} | \text{string} | \text{boolean}$

$B \rightarrow \text{begin } \{C\}^* \text{ end}$

$C \rightarrow \text{id} = \text{Exp} \text{ ";" } | \text{while Exp ( C | B ) } |$

$\text{If Exp ( C | B ) [else ( C | B ) ] } | \text{ ";" } |$

$\text{readln "," id ";" } | (\text{write} | \text{writeln}) \text{ "," Exp } \{ \text{ "," Exp } \}^* \text{ ";"}$

$\text{Exp} \rightarrow \text{ExpS [ ( "<" | ">" | "<=" | ">=" | "==" | "!=" ) ExpS ]}$

$\text{ExpS} \rightarrow [ \text{"+"} | \text{"-"} \text{ T } \{ ( \text{"+"} | \text{"-"} | \text{or} ) \text{ T } \}^*$

$\text{T} \rightarrow \text{F } \{ ( \text{"*"} | \text{" /"} | \text{and} ) \text{ F } \}^*$

$\text{F} \rightarrow \text{"(" Exp ")" } | \text{not F} | \text{const} | \text{id}$