Gramática Linguagem L

S -> {D ;} "main" { C }$^+$ "end"

C -> "readln" "(" id ")" ";" | "write" "(" E {"," E}")" ";" |
"writeln" "(" E { "," E } ")" ";" |
"while" "(" E ")" (C | "begin" {C} "end") |
"if" "(" E ")" "then" (C | "begin" {C} "end")
[else"(C | "begin" {C} "end")] |
id "=" E ";" |
";"

D -> ("int" | "boolean" | "byte" | "string") id D_1 |
"const" id "=" ["-"] constante_valor
D_1 -> "=" E D_2 | D_2
D_2 -> {"," id ["=" E] }

E -> E_1 [("<" | ">" | "!=" | "==" | ">=" | "<=") E_1]
E_1 -> ["+" | "-"] E_2 { ("+" | "-" | "or") E_2 }
E_2 -> E_3 {("*" | "/" | "and") E_3}
E_3 -> "not" E_3 | "(" E ")" | id | constante_valor