Linguagem LL(1) :

<programa> ::= inicio <decls> <comandos> fim

<decls> ::= <decl> <decls> | ε

<decl> ::= <tipo> ID ;

<tipo> ::= int | float | string

<comandos> ::= <comando> <comandos> | ε

<comando> ::= <atribuicao> ;
              | <chamada> ;
              | <entrada> ;
              | <saida> ;
              | <if_stmt>
              | <while_stmt>
              | <bloco>

<atribuicao> ::= ID = <expr>

<chamada> ::= ID (<args>)

<args> ::= <expr_list> | ε

<expr_list> ::= <expr> , <expr_list> | <expr>

<entrada> ::= read (ID)

<saida> ::= print (<expr>)

<if_stmt> ::= if (<expr>) <comando> <else_opt>

<else_opt> ::= else <comando> | ε

<while_stmt> ::= while (<expr>) <comando>

<bloco> ::= { <comandos> }

<factor> ::= ID | NUMBER | STRING | (<expr>) | - <factor>

<expr> ::= <term> <expr_linha>

<expr_linha> ::= + <term> <expr_linha> | - <term> <expr_linha> | ε

<term> ::= <factor> <term_linha>

<term_linha> ::= * <factor> <term_linha> | / <factor> <term_linha> | ε