

Syntax.in

<program> ::= *** <list_instructions> ***

<list_instructions> ::= <instruction> | <instruction><list_instructions>

<instruction> ::= <decl_instruction> | <rw_instruction> | <assign_instruction> |
<if_instruction> | <for_instruction>

<decl_instruction> ::= <var_decl_instruction> | <arr_decl_instruction>

<var_decl_instruction> ::= var space <identifier> <var_type> ;

<arr_decl_instruction> ::= var <identifier> [<unsigned_integer>] <var_type>;

<var_type> ::= real | integer | long_integer

<rw_instruction> ::= <rw_keywords> (<identifier>) ;

<rw_keywords> ::= read | write

<assign_instruction> ::= <identifier> := <expression>

<if_instruction> ::= condition (<list_conditions>) <program> | condition (<list_conditions>) <program> otherwise <if_instruction> | condition (<list_conditions>) <program> otherwise <program>

<list_conditions> ::= <condition> | <condition> && <list_conditions>

<condition> ::= <expression> <relation> <expression>

<relation> ::= < < | > | == | != | >= | <=

<expression> ::= <term> | (<expression>) | <expression><operator> <expression>

<operator> ::= +|-|*|/

<term> ::= <real>|<identifier>

<for_instruction> ::= step_loop (<identifier>, <identifier>|<constant>, <identifier>|
<constant>, <constant>) <program>