labeled_point = ident , ":";	labeled_point(ident_terminal) = ident , ":";
goto_label = "GOTO" , ident;	goto_label("GOTO") = "GOTO" , ident;
program_name = ident;	program_name(ident_terminal) = ident;
value_type = "INTEGER16";	value_type("INTEGER16") = "INTEGER16";
	array_specify("[") = "[", unsigned_value_terminal , "]";
declaration_element = ident , [ "[", unsigned_value , "]" ];	declaration_element(ident_terminal) = ident , array_specify_optional;
	array_specify_optional("[") = array_specify;
	array_specify_optional(!"[") = ε;
other_declaration_ident = "," , declaration_element;	other_declaration_ident(",") = "," , declaration_element;
declaration = value_type , declaration_element ,	declaration("INTEGER16") = value_type , declaration_element ,
{other_declaration_ident};	other_declaration_identiteration;
	other_declaration_identiteration(",") = other_declaration_ident,
	other_declaration_identiteration;
	other_declaration_identiteration(!",") = ε;
index_action = "[" , expression , "]";	index_action("[") = "[" , expression , "]";
unary_operator = "NOT"   "-"   "+";	unary_operator("NOT") = "NOT";
	unary_operator("-") = "-";
	unary_operator("+") = "+";
unary_operation = unary_operator , expression;	unary_operation("NOT", "+", "-") = unary_operator, expression;
binary_operator = "AND"   "OR"   "=="   "!="   "<="   ">="   "+"   "-"	
"*"   "DIV"   "MOD";	binary_operator("AND") = "AND";
	binary_operator("OR") = "OR";
	binary_operator("==") = "==";
	binary_operator("!=") = "!=";
	binary_operator("<=") = "<=";
	binary_operator(">=") = ">=";
	binary_operator("+") = "+";
	binary_operator("-") = "-";
	binary_operator("*") = "*";
	binary_operator("DIV") = "DIV";

	binary_operator("MOD") = "MOD";
	binary_action("AND", "OR", "==", "!=", "<=", ">=", "+", "-", "*", "DIV", "MOD")
binary_action = binary_operator , expression;	= binary_operator , expression;
left_expression = group_expression   unary_operation   ident ,	
[index_action]   value;	left_expression("(") = group_expression;
	left_expression("NOT") = unary_operation;
	left_expression( <del>"NOT",</del> "+", "-") =
	([+1](unsigned_value_terminal) : value;
	([+1]!(unsigned_value_terminal)): unary_operation;
	left_expression(ident_terminal) = ident , index_action_optional;
	left_expression(unsigned_value_terminal, "+", "-") = value;
	index_action_optional("[") = index_action;
	index action optional(!"[") = $\epsilon$ ;
	expression("(","NOT", "+", "-", ident_terminal, unsigned_value_terminal) =
expression = left_expression , {binary_action};	left_expression , binary_actioniteration;
	binary_actioniteration("AND", "OR", "==", "!=", "<=", ">=", "+", "-", "*",
	"DIV", "MOD") = binary_action, binary_actioniteration;
	binary_actioniteration(!("AND", "OR", "==", "!=", "<=", ">=", "+", "-", "*",
	"DIV", "MOD")) = ε;
<pre>group_expression = "(" , expression , ")";</pre>	group_expression("(") = "(", expression, ")";
	bind_right_to_left(ident_terminal) = ident , index_action_optional , ":=" ,
bind_right_to_left = ident , [index_action] , ":=" , expression;	expression;
	bind_left_to_right("(","NOT", "+", "-", ident_terminal,
bind_left_to_right = expression , "=:" , ident , [index_action];	<pre>unsigned_value_terminal) = expression , "=:" , ident , index_action_optional;</pre>
	<pre>if_expression("(","NOT", "+", "-", ident_terminal, unsigned_value_terminal) =</pre>
if_expression = expression;	expression;
body_for_true = block_statements_in_while_and_if_body;	body_for_true("{") = block_statements_in_while_and_if_body;
	false_cond_block_without_else("ELSE") = "ELSE", "IF", if_expression,
false_cond_block = "ELSE" , cond_block;	body_for_true;
body_for_false = "ELSE" , block_statements_in_while_and_if_body;	body_for_false("ELSE") = "ELSE" , block_statements_in_while_and_if_body;
<pre>cond_block = "IF" , if_expression , body_for_true , {false_cond_block} ,</pre>	cond_block("IF") = "IF" , if_expression , body_for_true ,
[body_for_false];	false_cond_block_without_elseiteration , body_for_false_optional;
	false_cond_block_without_elseiteration("ELSE") =

	([+1]"IF"): false_cond_block_without_else,
	false_cond_block_without_elseiteration;
	([+1]!("IF")) : ε;
	false_cond_block_without_elseiteration(!"ELSE") = ε;
	body_for_false_optional("ELSE") = body_for_false;
	body_for_false_optional(!"ELSE") = ε;
	cycle_begin_expression("(","NOT", "+", "-", ident_terminal,
cycle_begin_expression = expression;	unsigned_value_terminal) = expression;
	cycle_end_expression("(","NOT", "+", "-", ident_terminal,
cycle_end_expression = expression;	unsigned_value_terminal) = expression;
cycle_counter = ident;	cycle_counter(ident_terminal) = ident;
	cycle_counter_rl_init(ident_terminal) = cycle_counter , ":=" ,
<pre>cycle_counter_rl_init = cycle_counter , ":=" , cycle_begin_expression;</pre>	cycle_begin_expression;
	cycle_counter_lr_init("(","NOT", "+", "-", ident_terminal,
<pre>cycle_counter_lr_init = cycle_begin_expression , "=:" , cycle_counter;</pre>	<pre>unsigned_value_terminal) = cycle_begin_expression , "=:" , cycle_counter;</pre>
	cycle_counter_init(ident_terminal) =
	([+1](":=")) : cycle_counter_rl_init;
cycle_counter_init = cycle_counter_rl_init   cycle_counter_lr_init;	([+1]!(":=")) : cycle_counter_lr_init;
	cycle_counter_init("(","NOT", "+", "-", <del>ident_terminal</del> ,
	unsigned_value_terminal) = cycle_counter_lr_init;
	cycle_counter_last_value("(","NOT", "+", "-", ident_terminal,
cycle_counter_last_value = cycle_end_expression;	unsigned_value_terminal) = cycle_end_expression;
<pre>cycle_body = "DO" , (statement   block_statements);</pre>	cycle_body("DO") = "DO" , statementsorblock_statements;
	forto_direction("TO") = "TO";
	forto_direction("DOWNTO") = "DOWNTO";
forto_cycle = "FOR" , cycle_counter_init , ("TO"   "DOWNTO") ,	forto_cycle("FOR") = "FOR" , cycle_counter_init , forto_direction ,
cycle_counter_last_value , cycle_body;	cycle_counter_last_value , cycle_body;
	statement_in_while_and_if_body(ident_terminal, "(", "NOT",
	unsigned_value_terminal, "+", "-", "IF", "FOR", "WHILE", "REPEAT", "GOTO",
statement_in_while_and_if_body = statement   "CONTINUE"   "BREAK";	"GET", "PUT", ";") = statement;
	statement_in_while_and_if_body("CONTINUE") = "CONTINUE";
	statement_in_while_and_if_body("BREAK") = "BREAK";
block_statements_in_while_and_if_body = "{" ,	block_statements_in_while_and_if_body("{") = "{",

{statement_in_while_and_if_body} , "}";	statement_in_while_and_if_bodyiteration , "}";
	statement in while and if body iteration(ident terminal, "(", "NOT",
	unsigned value terminal, "+", "-", "IF", "FOR", "WHILE", "REPEAT", "GOTO",
	"GET", "PUT", ";", "CONTINUE", "BREAK") = statement_in_while_and_if_body,
	statement_in_while_and_if_bodyiteration;
	statement_in_while_and_if_bodyiteration(!(ident_terminal, "(", "NOT", unsigned_value_terminal, "+", "-", "IF", "FOR", "WHILE", "REPEAT", "GOTO", "GET", "PUT", ";", "CONTINUE", "BREAK")) = ε;
	while_cycle_head_expression("(","NOT", "+", "-", ident_terminal,
while_cycle_head_expression = expression;	unsigned_value_terminal) = expression;
while_cycle = "WHILE" , while_cycle_head_expression ,	while_cycle("WHILE") = "WHILE", while_cycle_head_expression,
block_statements_in_while_and_if_body;	block_statements_in_while_and_if_body;
statements_in_wime_unu_in_souy,	repeat until cycle cond("(","NOT", "+", "-", ident terminal,
repeat_until_cycle_cond = expression;	unsigned_value_terminal) = expression;
repeat until cycle = "REPEAT" , (statement   block statements) , "UNTIL"	repeat_until_cycle("REPEAT") = "REPEAT",
, repeat_until_cycle_cond;	statements_orblock_statements , "UNTIL" , repeat_until_cycle_cond;
	statements or block statements (ident terminal, "(", "NOT",
	unsigned_value_terminal, "+", "-", "IF", "FOR", "WHILE", "REPEAT", "GOTO",
	"GET", "PUT", ";") = statementiteration;
	statementsorblock_statements("{") = block_statements;
input = "GET" , ( ident , [index_action]   "(" , ident , [index_action] , ")" );	input("GET") = "GET" , argument_for_input;
	argument_for_input(ident_terminal) = ident , index_action_optional;
	argument_for_input ("(") = "(", ident, index_action_optional, ")";
output = "PUT" , expression;	output("PUT") = "PUT" , expression;
	statement(ident_terminal) =
statement = bind_right_to_left   bind_left_to_right   cond_block	([+1]":=") : bind_right_to_left;
forto_cycle   while_cycle   repeat_until_cycle   labeled_point   goto_label	([+1]":") : labeled_point;
input   output   ";";	([+1]!(":=", ":")) : bind_left_to_right;
	statement("(", "NOT" <del>, ident_terminal</del> , unsigned_value_terminal, "+", "-") =
	bind_left_to_right;
	statement("IF") = cond_block;

	statement("FOR") = forto_cycle;
	statement("WHILE") = while_cycle;
	statement("REPEAT") = repeat_until_cycle;
	statement(ident_terminal) = labeled_point;
	statement("GOTO") = goto_label;
	statement("GET") = input;
	statement("PUT") = output;
	statement(";") = ";";
block_statements = "{" , {statement} , "}";	block_statements("{") = "{" , statementiteration, "}";
	statementiteration(ident_terminal, "(", "NOT", unsigned_value_terminal,
	"+", "-", "IF", "FOR", "WHILE", "REPEAT", "GOTO", "GET", "PUT", ";") =
	statement, statementiteration;
	statementiteration(!(ident_terminal, "(", "NOT", unsigned_value_terminal,
	"+", "-", "IF", "FOR", "WHILE", "REPEAT", "GOTO", "GET", "PUT", ";")) = ε;
<pre>program = "NAME" , program_name , ";" , "BODY" , "DATA", [declaration]</pre>	program("NAME") = "NAME", program_name, ";", "BODY", "DATA",
, ";" , {statement} , "END";	declaration_optional , ";" , statementiteration , "END";
	declaration_optional("INTEGER16") = declaration;
	declaration_optional(!"INTEGER16") = ε;
digit = "0"   "1"   "2"   "3"   "4"   "5"   "6"   "7"   "8"   "9";	
non_zero_digit = "1"   "2"   "3"   "4"   "5"   "6"   "7"   "8"   "9";	
unsigned_value = (non_zero_digit , {digit})   "0";	unsigned_value(unsigned_value_terminal) = unsigned_value_terminal;
<u> </u>	1 0

value = [sign] , unsigned_value;	value(unsigned_value_terminal, "+", "-") = sign_optional , unsigned_value;
	sign_optional("+","-") = sign;
	sign_optional(!("+","-")) = ε;
letter_in_lower_case = "a"   "b"   "c"   "d"   "e"   "f"   "g"   "h"   "i"   "j"	
"k"   "l"   "m"   "n"   "o"   "p"   "q"   "r"   "s"   "t"   "u"   "v"   "w"   "x"	
"y"   "z";	
letter_in_upper_case = "A"   "B"   "C"   "D"   "E"   "F"   "G"   "H"   "I"	
"J"   "K"   "L"   "M"   "N"   "O"   "P"   "Q"   "R"   "S"   "T"   "U"   "V"   "W"	
"X"   "Y"   "Z";	
ident = "_" , letter_in_upper_case , letter_in_upper_case ,	
letter_in_upper_case , letter_in_upper_case , letter_in_upper_case ,	
letter_in_upper_case , letter_in_upper_case;	ident(ident_terminal) = ident_terminal;
sign = "+"   "-";	sign("+") = "+";
	sign("-") = "-";