

<p>РБНФ №1 (опис синтаксису всіма допустимими засобами РБНФ)</p>	<p>РБНФ №2 (опис формальної граматики засобами РБНФ)</p>	<p>Формальна граматика</p>	<p>Формальна граматика з специфікацією lookahead у правилах для LL(2)-аналізатора</p>	<pre style="text-align: center;">/* Перевірка РБНФ №1 за допомогою коду (помістити у файл "EBNF_N1.h") */</pre>	<pre style="text-align: center;">/* Перевірка РБНФ №2 за допомогою коду (помістити у файл "EBNF_N2.h") */</pre>	<p>Перевірки прототипу LL(2)-синтаксичного аналізатора (спеціальна структура) та прототипу лексичного аналізатора (регулярні вирази) за допомогою коду. Лексеми для синтаксичного аналізатора обробляються лексичним аналізатором, тому синтаксичний аналізатор не аналізує їх повторно (як показано в РБНФ). "LexicaByRegExAndSyntaxByLL2prototype.h" УВАГА: при копіюванні зважайте, що у кожному рядку після символу «\» не міститься жодних інших символів. */</p>
		<p>G = (N, T, P, S)</p>	<p>G = (N, T, P, S)</p>			
		<p>S → program_rule</p>	<p>S → program_rule</p>			
		<p>N = { program_name, value_type, array_specify, declaration_element, array_specify_optional, other_declaration_ident, declaration, other_declaration_ident_iteration, index_action, unary_operator, unary_operation, binary_operator, binary_action, left_expression, group_expression, index_action_optional, expression, binary_action_iteration, expression_or_cond_block_with_optional_assign, assign_to_right, assign_to_right_optional, if_expression, body_for_true, false_cond_block_without_else, body_for_false, cond_block, false_cond_block_without_else_iteration, body_for_false_optional, cycle_begin_expression, cycle_end_expression, cycle_counter, cycle_counter_lr_init, cycle_counter_init, cycle_counter_last_value, cycle_body, fordownto_cycle, statement, statement_or_block_statements, block_statements, input_rule, argument_for_input, output_rule, statement_iteration, expression_optional, program_rule, declaration_optional, non_zero_digit, digit_iteration, digit, unsigned_value, value, sign_optional, sign, ident, letter_in_upper_case, letter_in_lower_case, sign_plus, sign_minus }</p>	<p>#define NONTERMINALS program_name, \ value_type, \ array_specify, \ declaration_element, \ array_specify_optional, \ other_declaration_ident, \ declaration, \ other_declaration_ident_iteration, \ index_action, \ unary_operator, \ unary_operation, \ binary_operator, \ binary_action, \ left_expression, \ group_expression, \ index_action_optional, \ expression, \ binary_action_iteration, \ expression_or_cond_block_with_optional_assign, \ assign_to_right, \ assign_to_right_optional, \ if_expression, \ body_for_true, \ false_cond_block_without_else, \ body_for_false, \ cond_block, \ false_cond_block_without_else_iteration, \ body_for_false_optional, \ cycle_begin_expression, \ cycle_end_expression, \ cycle_counter, \ cycle_counter_lr_init, \ cycle_counter_init, \ cycle_counter_last_value, \ cycle_body, \ fordownto_cycle, \ statement, \ statement_or_block_statements, \ block_statements, \ input_rule, \ argument_for_input, \ output_rule, \ statement_iteration, \ expression_optional, \ program_rule, \ declaration_optional, \ non_zero_digit, \ digit_iteration, \ digit, \ unsigned_value, \ value, \ sign_optional, \ sign, \ ident, \ letter_in_upper_case, \ letter_in_lower_case, \ sign_plus, \ sign_minus }</p>	<p>#define NONTERMINALS program_name, \ value_type, \ array_specify, \ declaration_element, \ array_specify_optional, \ other_declaration_ident, \ declaration, \ other_declaration_ident_iteration, \ index_action, \ unary_operator, \ unary_operation, \ binary_operator, \ binary_action, \ left_expression, \ group_expression, \ index_action_optional, \ expression, \ binary_action_iteration, \ expression_or_cond_block_with_optional_assign, \ assign_to_right, \ assign_to_right_optional, \ if_expression, \ body_for_true, \ false_cond_block_without_else, \ body_for_false, \ cond_block, \ false_cond_block_without_else_iteration, \ body_for_false_optional, \ cycle_begin_expression, \ cycle_end_expression, \ cycle_counter, \ cycle_counter_lr_init, \ cycle_counter_init, \ cycle_counter_last_value, \ cycle_body, \ fordownto_cycle, \ statement, \ statement_or_block_statements, \ block_statements, \ input_rule, \ argument_for_input, \ output_rule, \ statement_iteration, \ expression_optional, \ program_rule, \ declaration_optional, \ non_zero_digit, \ digit_iteration, \ digit, \ unsigned_value, \ value, \ sign_optional, \ sign, \ ident, \ letter_in_upper_case, \ letter_in_lower_case, \ sign_plus, \ sign_minus }</p>	<p>#define TOKENS \ T = { "Integer_2" }</p>	<p>#define TOKENS \ T = { "Integer_2" }</p>

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",",
"!",
"&",
"|",
"==",
"!=",
"<",
">",
"++",
"--",
"**",
"Div",
"Mod",
"(",
")",
"->",
"Else",
"If",
"Do",
"For",
"Downto",
"",
"Read",
"Write",
"#Program",
"",
"Variable",
"Start",
"Stop",
"{" ,
"}",
"[",
"]",
";",
"0",
"1",
"2",
"3",
"4",
"5",
"6",
"7",
"8",
"9",
" ",
"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",
"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"}"
,
```

tokenINTEGER16, \	tokenINTEGER16, \
tokenCOMMA, \	tokenCOMMA, \
tokenNOT, \	tokenNOT, \
tokenAND, \	tokenAND, \
tokenOR, \	tokenOR, \
tokenEQUAL, \	tokenEQUAL, \
tokenNOTEQUAL, \	tokenNOTEQUAL, \
tokenLESS, \	tokenLESS, \
tokenGREATER, \	tokenGREATER, \
tokenPLUS, \	tokenPLUS, \
tokenMINUS, \	tokenMINUS, \
tokenMUL, \	tokenMUL, \
tokenDIV, \	tokenDIV, \
tokenMOD, \	tokenMOD, \
tokenGROUPEXPRESSIONBEGIN, \	tokenGROUPEXPRESSIONBEGIN, \
tokenGROUPEXPRESSIONEND, \	tokenGROUPEXPRESSIONEND, \
tokenLRASSIGN, \	tokenLRASSIGN, \
tokenELSE, \	tokenELSE, \
tokenIF, \	tokenIF, \
tokenDO, \	tokenDO, \
tokenFOR, \	tokenFOR, \
tokenDOWNTO, \	tokenDOWNTO, \
tokenEXIT, \	tokenEXIT, \
tokenGET, \	tokenGET, \
tokenPUT, \	tokenPUT, \
tokenNAME, \	tokenNAME, \
tokenBODY, \	tokenBODY, \
tokenDATA, \	tokenDATA, \
tokenBEGIN, \	tokenBEGIN, \
tokenEND, \	tokenEND, \
tokenBEGINBLOCK, \	tokenBEGINBLOCK, \
tokenENDBLOCK, \	tokenENDBLOCK, \
tokenLEFTSQUAREBRACKETS, \	tokenLEFTSQUAREBRACKETS, \
tokenRIGHTSQUAREBRACKETS, \	tokenRIGHTSQUAREBRACKETS, \
tokenSEMICOLON, \	tokenSEMICOLON, \
digit_0, \	digit_0, \
digit_1, \	digit_1, \
digit_2, \	digit_2, \
digit_3, \	digit_3, \
digit_4, \	digit_4, \
digit_5, \	digit_5, \
digit_6, \	digit_6, \
digit_7, \	digit_7, \
digit_8, \	digit_8, \
digit_9, \	digit_9, \
tokenUNDERSCORE, \	tokenUNDERSCORE, \
A, \	A, \
B, \	B, \
C, \	C, \
D, \	D, \
E, \	E, \
F, \	F, \
G, \	G, \
H, \	H, \
I, \	I, \
J, \	J, \
K, \	K, \
L, \	L, \
M, \	M, \
N, \	N, \
O, \	O, \
P, \	P, \
Q, \	Q, \
R, \	R, \
S, \	S, \
T, \	T, \
U, \	U, \
V, \	V, \
W, \	W, \
X, \	X, \
Y, \	Y, \
Z, \	Z, \
a, \	a, \
b, \	b, \
c, \	c, \
d, \	d, \
e, \	e, \
f, \	f, \
g, \	g, \
h, \	h, \
i, \	i, \
j, \	j, \
k, \	k, \
l, \	l, \
m, \	m, \
n, \	n, \
o, \	o, \
p, \	p, \
q, \	q, \
r, \	r, \
s, \	s, \
t, \	t, \
u, \	u, \
v, \	v, \
w, \	w, \
x, \	x, \



				tokenEQUAL = "==" >> BOUNDARIES;	tokenEQUAL = "==" >> BOUNDARIES;	#define T_EQUAL_0 "==" #define T_EQUAL_1 "" #define T_EQUAL_2 "" #define T_EQUAL_3 ""
				tokenNOTEQUAL = "!=" >> BOUNDARIES;	tokenNOTEQUAL = "!=" >> BOUNDARIES;	#define T_NOTEQUAL_0 "!=" #define T_NOTEQUAL_1 "" #define T_NOTEQUAL_2 "" #define T_NOTEQUAL_3 ""
				tokenLESS = "<" >> BOUNDARIES;	tokenLESS = "<" >> BOUNDARIES;	#define T_LESS_0 "<" #define T_LESS_1 "" #define T_LESS_2 "" #define T_LESS_3 ""
				tokenGREATER = ">" >> BOUNDARIES;	tokenGREATER = ">" >> BOUNDARIES;	#define T_GREATER_0 ">" #define T_GREATER_1 "" #define T_GREATER_2 "" #define T_GREATER_3 ""
				tokenPLUS = "++" >> BOUNDARIES;	tokenPLUS = "++" >> BOUNDARIES;	#define T_ADD_0 "++" #define T_ADD_1 "" #define T_ADD_2 "" #define T_ADD_3 ""
				tokenMINUS = "--" >> BOUNDARIES;	tokenMINUS = "--" >> BOUNDARIES;	#define T_SUB_0 "--" #define T_SUB_1 "" #define T_SUB_2 "" #define T_SUB_3 ""
				tokenMUL = "***" >> BOUNDARIES;	tokenMUL = "***" >> BOUNDARIES;	#define T_MUL_0 "***" #define T_MUL_1 "" #define T_MUL_2 "" #define T_MUL_3 ""
				tokenDIV = "Div" >> STRICT_BOUNDARIES;	tokenDIV = "Div" >> STRICT_BOUNDARIES;	#define T_DIV_0 "Div" #define T_DIV_1 "" #define T_DIV_2 "" #define T_DIV_3 ""
				tokenMOD = "Mod" >> STRICT_BOUNDARIES;	tokenMOD = "Mod" >> STRICT_BOUNDARIES;	#define T_MOD_0 "Mod" #define T_MOD_1 "" #define T_MOD_2 "" #define T_MOD_3 ""
				tokenLRASSIGN = "->" >> BOUNDARIES;	tokenLRASSIGN = "->" >> BOUNDARIES;	#define T_LRASSIGN_0 "->" #define T_LRASSIGN_1 "" #define T_LRASSIGN_2 "" #define T_LRASSIGN_3 ""
						#define T_THEN_BLOCK_0 "{}" #define T_THEN_BLOCK_1 "" #define T_THEN_BLOCK_2 "" #define T_THEN_BLOCK_3 ""
				tokenELSE = "Else" >> STRICT_BOUNDARIES;	tokenELSE = "Else" >> STRICT_BOUNDARIES;	#define T_ELSE_BLOCK_0 "Else" #define T_ELSE_BLOCK_1 T_BEGIN_BLOCK_0 #define T_ELSE_BLOCK_2 "" #define T_ELSE_BLOCK_3 ""
				tokenIF = "If" >> STRICT_BOUNDARIES;	tokenIF = "If" >> STRICT_BOUNDARIES;	#define T_IF_0 "If" #define T_IF_1 "" #define T_IF_2 "" #define T_IF_3 ""
						#define T_ELSE_IF_0 "Else" #define T_ELSE_IF_1 T_IF_0 #define T_ELSE_IF_2 "" #define T_ELSE_IF_3 ""
				tokenDO = "Do" >> STRICT_BOUNDARIES;	tokenDO = "Do" >> STRICT_BOUNDARIES;	#define T_DO_0 "Do" #define T_DO_1 "" #define T_DO_2 "" #define T_DO_3 ""
				tokenFOR = "For" >> STRICT_BOUNDARIES;	tokenFOR = "For" >> STRICT_BOUNDARIES;	#define T_FOR_0 "For" #define T_FOR_1 "" #define T_FOR_2 "" #define T_FOR_3 ""
				tokenDOWNTO = "Downto" >> STRICT_BOUNDARIES;	tokenDOWNTO = "Downto" >> STRICT_BOUNDARIES;	#define T_DOWNTO_0 "Downto" #define T_DOWNTO_1 "" #define T_DOWNTO_2 "" #define T_DOWNTO_3 ""
				tokenEXIT = "EXIT" >> STRICT_BOUNDARIES;	tokenEXIT = "EXIT" >> STRICT_BOUNDARIES;	#define T_EXIT_0 "" #define T_EXIT_1 "" #define T_EXIT_2 "" #define T_EXIT_3 ""
				tokenGET = "Read" >> STRICT_BOUNDARIES;	tokenGET = "Read" >> STRICT_BOUNDARIES;	#define T_INPUT_0 "Read" #define T_INPUT_1 "" #define T_INPUT_2 "" #define T_INPUT_3 ""
				tokenPUT = "Write" >> STRICT_BOUNDARIES;	tokenPUT = "Write" >> STRICT_BOUNDARIES;	#define T_OUTPUT_0 "Write" #define T_OUTPUT_1 "" #define T_OUTPUT_2 "" #define T_OUTPUT_3 ""
				tokenNAME = "#Program" >> STRICT_BOUNDARIES;	tokenNAME = "#Program" >> STRICT_BOUNDARIES;	#define T_NAME_0 "#Program" #define T_NAME_1 "" #define T_NAME_2 "" #define T_NAME_3 ""
				tokenBODY = "BODY" >> STRICT_BOUNDARIES;	tokenBODY = "BODY" >> STRICT_BOUNDARIES;	#define T_BODY_0 "" #define T_BODY_1 "" #define T_BODY_2 "" #define T_BODY_3 ""
				tokenDATA = "Variable" >> STRICT_BOUNDARIES;	tokenDATA = "Variable" >> STRICT_BOUNDARIES;	#define T_DATA_0 "Variable" #define T_DATA_1 "" #define T_DATA_2 "" #define T_DATA_3 ""
				tokenBEGIN = "Start" >> STRICT_BOUNDARIES;	tokenBEGIN = "Start" >> STRICT_BOUNDARIES;	#define T_BEGIN_0 "Start" #define T_BEGIN_1 ""

						#define T_BEGIN_2 "" #define T_BEGIN_3 ""
				tokenEND = "Stop" >> STRICT_BOUNDARIES;	tokenEND = "Stop" >> STRICT_BOUNDARIES;	#define T_END_0 "Stop" #define T_END_1 "" #define T_END_2 "" #define T_END_3 ""
						#define T_NULL_STATEMENT_0 "" #define T_NULL_STATEMENT_1 "" #define T_NULL_STATEMENT_2 "" #define T_NULL_STATEMENT_3 "" #define GRAMMAR_LL2__2025 \\
program_name = ident;	program_name → ident	program_name → ident	program_name(1: "ident_terminal") → ident	program_name = SAME_RULE(ident);	program_name = SAME_RULE(ident);	{ LA_IS, {"ident_terminal"}, { "program_name", {\ { LA_IS, {""}, 1, {"ident"} }\} }} , \
value_type → "Integer_2"	value_type → "integer_2"	value_type → "Integer_2"	value_type → "Integer_2"	value_type = SAME_RULE(tokenINTEGER16);	value_type = SAME_RULE(tokenINTEGER16);	{ LA_IS, {T_DATA_TYPE_0}, { "value_type", {\ { LA_IS, {""}, 1, {T_DATA_TYPE_0} }\} }} , \
array_specify → "[" unsigned_value "]"	array_specify → "[" unsigned_value "]"	array_specify → "[" unsigned_value "]"	array_specify → "[" unsigned_value "]"	array_specify = SAME_RULE(ident);	array_specify = tokenLEFTSQUAREBRACKETS >> unsigned_value >> tokenRIGHTSQUAREBRACKETS;	{ LA_IS, {"["}, { "array_specify", {\ { LA_IS, {""}, 3, {"[", "unsigned_value", "]"} }\} }} , \
declaration_element = ident, [ "[", unsigned_value, "]" ];	declaration_element → ident array_specify_optional	declaration_element → ident array_specify_optional	declaration_element → ident array_specify_optional	declaration_element = ident >> - (tokenLEFTSQUAREBRACKETS >> unsigned_value >> tokenRIGHTSQUAREBRACKETS);	declaration_element = ident >> array_specify_optional;	{ LA_IS, {"ident_terminal"}, { "declaration_element", {\ { LA_IS, {""}, 2, {"ident", "array_specify_optional"} }\} }} , \
array_specify_optional → array_specify array_specify_optional → ε	array_specify_optional → array_specify array_specify_optional → ε	array_specify_optional → array_specify array_specify_optional → ε	array_specify_optional → array_specify array_specify_optional → ε		array_specify_optional = array_specify   "";	{ LA_IS, {"["}, { "array_specify_optional", {\ { LA_IS, {""}, 1, { "array_specify" }\} }} , \ { LA_NOT, {"["}, { "array_specify_optional", {\ { LA_IS, {""}, 0, {""} }\} }} , \
other_declaration_ident = "", declaration_element	other_declaration_ident → "", declaration_element	other_declaration_ident → "", declaration_element	other_declaration_ident → "", declaration_element	other_declaration_ident = tokenCOMMA >> declaration_element;	other_declaration_ident = tokenCOMMA >> declaration_element;	{ LA_IS, {T_COMA_0}, { "other_declaration_ident", {\ { LA_IS, {""}, 2, {T_COMA_0, "declaration_element"} }\} }} , \
declaration = value_type, declaration_element, {other_declaration_ident};	declaration → value_type declaration_element other_declaration_ident_iteration	declaration → value_type declaration_element other_declaration_ident_iteration	declaration → value_type declaration_element other_declaration_ident_iteration	declaration = value_type >> declaration_element >> *other_declaration_ident;	declaration = value_type >> declaration_element >> other_declaration_ident_iteration;	{ LA_IS, {T_DATA_TYPE_0}, { "declaration", {\ { LA_IS, {""}, 3, {"value_type", "declaration_element", "other_declaration_ident_iteration"} }\} }} , \
other_declaration_ident_iteration → other_declaration_ident other_declaration_ident_iteration false_cond_block_without_else_iteration → ε	other_declaration_ident_iteration → other_declaration_ident other_declaration_ident_iteration false_cond_block_without_else_iteration → ε	other_declaration_ident_iteration → other_declaration_ident other_declaration_ident_iteration false_cond_block_without_else_iteration → ε	other_declaration_ident_iteration → other_declaration_ident other_declaration_ident_iteration false_cond_block_without_else_iteration → ε		other_declaration_ident_iteration = other_declaration_ident >> other_declaration_ident_iteration   "";	{ LA_IS, { T_COMA_0 }, { "other_declaration_ident_iteration", {\ { LA_IS, {""}, 2, { "other_declaration_ident", "other_declaration_ident_iteration" }\} }} , \ { LA_NOT, { T_COMA_0 }, { "other_declaration_ident_iteration", {\ { LA_IS, {""}, 0, {"" } }\} }} , \
index_action = "[", expression, "]";	index_action → "[" expression "]"	index_action → "[" expression "]"	index_action(1: "[" → "[" expression ")"	index_action = tokenLEFTSQUAREBRACKETS >> expression >> tokenRIGHTSQUAREBRACKETS;	index_action = tokenLEFTSQUAREBRACKETS >> expression >> tokenRIGHTSQUAREBRACKETS;	{ LA_IS, {"["}, { "index_action", {\ { LA_IS, {""}, 3, {"[", "expression", "]"} }\} }} , \
unary_operator = "!" ;	unary_operator → "!"	unary_operator → "!"	unary_operator → "!"	unary_operator = SAME_RULE(tokenNOT);	unary_operator = SAME_RULE(tokenNOT);	{ LA_IS, { T_NOT_0 }, { "unary_operator", {\ { LA_IS, {""}, 1, { T_NOT_0 }\} }} , \
unary_operation = unary_operator, expression;	unary_operation → unary_operator expression	unary_operation → unary_operator expression	unary_operation → unary_operator expression	unary_operation = unary_operator >> expression;	unary_operation = unary_operator >> expression;	{ LA_IS, { T_NOT_0 }, { "unary_operation", {\ { LA_IS, {""}, 2, { "unary_operator", "expression" }\} }} , \
binary_operator = "&", " ", "==", "!=" , "<" , ">" , "++" , "--" , "***" , "Div" , "Mod"	binary_operator → "&" binary_operator → " " binary_operator → "==" binary_operator → "!=" binary_operator → "<" binary_operator → ">" binary_operator → "++" binary_operator → "--" binary_operator → "***" binary_operator → "Div" binary_operator → "Mod"	binary_operator → "&" binary_operator → " " binary_operator → "==" binary_operator → "!=" binary_operator → "<" binary_operator → ">" binary_operator → "++" binary_operator → "--" binary_operator → "***" binary_operator → "Div"	binary_operator → "&" binary_operator → " " binary_operator → "==" binary_operator → "!=" binary_operator → "<" binary_operator → ">" binary_operator → "++" binary_operator → "--" binary_operator → "***" binary_operator → "Div"	binary_operator = tokenAND   tokenOR   tokenEQUAL   tokenNOTEQUAL   tokenLESS   tokenGREATER   tokenPLUS   tokenMINUS   tokenMUL   tokenDIV   tokenMOD;	binary_operator = tokenAND   tokenOR   tokenEQUAL   tokenNOTEQUAL   tokenLESS   tokenGREATER   tokenPLUS   tokenMINUS   tokenMUL   tokenDIV   tokenMOD;	{ LA_IS, { T_AND_0 }, { "binary_operator", {\ { LA_IS, {""}, 1, { T_AND_0 }\} }} , \ { LA_IS, { T_OR_0 }, { "binary_operator", {\ { LA_IS, {""}, 1, { T_OR_0 }\} }} , \ { LA_IS, { T_EQUAL_0 }, { "binary_operator", {\ { LA_IS, {""}, 1, { T_EQUAL_0 }\} }} , \

	binary_operator → "Mod"	binary_operator → "Mod"	binary_operator → "Mod"			T_EQUAL_0 } }\}, \ { LA_IS, { T_NOT_EQUAL_0 }, { "binary_operator",{\ { LA_IS, {""}, 1, { T_NOT_EQUAL_0 }}}\}, \ { LA_IS, { T_LESS_0 }, { "binary_operator",{\ { LA_IS, {""}, 1, { T_LESS_0 }}}\}, \ { LA_IS, { T_GREATER_0 }, { "binary_operator",{\ { LA_IS, {""}, 1, { T_GREATER_0 }}}\}, \ { LA_IS, { T_ADD_0 }, { "binary_operator",{\ { LA_IS, {""}, 1, { T_ADD_0 }}}\}, \ { LA_IS, { T_SUB_0 }, { "binary_operator",{\ { LA_IS, {""}, 1, { T_SUB_0 }}}\}, \ { LA_IS, { T_MUL_0 }, { "binary_operator",{\ { LA_IS, {""}, 1, { T_MUL_0 }}}\}, \ { LA_IS, { T_DIV_0 }, { "binary_operator",{\ { LA_IS, {""}, 1, { T_DIV_0 }}}\}, \ { LA_IS, { T_MOD_0 }, { "binary_operator",{\ { LA_IS, {""}, 1, { T_MOD_0 }}}\}, \
binary_action = binary_operator , expression;	binary_action → binary_operator expression	binary_action → binary_operator expression	binary_action → binary_operator expression	binary_action = binary_operator >> expression;	binary_action = binary_operator >> expression;	{ LA_IS, { T_AND_0, T_OR_0, T_EQUAL_0, T_NOT_EQUAL_0, T_LESS_0, T_GREATER_0, T_ADD_0, T_SUB_0, T_MUL_0, T_DIV_0, T_MOD_0 }, { "binary_action",{\ { LA_IS, {""}, 2, { "binary_operator", "expression" }}}\}, \
left_expression = group_expression   unary_operation   cond_block   value   ident , [index_action];	left_expression → group_expression left_expression → unary_operation left_expression → cond_block left_expression → value left_expression → ident , index_action__optional	left_expression → group_expression left_expression → unary_operation left_expression → cond_block left_expression → value left_expression → ident , index_action__optional	left_expression → group_expression left_expression → unary_operation left_expression → cond_block left_expression → value left_expression → ident , index_action__optional	left_expression = group_expression   unary_operation   ident >> - index_action   value;	left_expression = group_expression   unary_operation   ident >> - index_action   value;	{ LA_IS, { "(" }, { "left_expression",{\ { LA_IS, {""}, 1, { "group_expression" }}}\}, \ { LA_IS, { T_NOT_0 }, { "left_expression",{\ { LA_IS, {""}, 1, { "unary_operation" }}}\}, \ { LA_IS, { T_IF_0 }, { "left_expression",{\ { LA_IS, {""}, 1, { "cond_block" }}}\}, \ { LA_IS, { "unsigned_value_terminal" }, { "left_expression",{\ { LA_IS, {""}, 1, { "value" }}}\}, \ { LA_IS, { T_ADD_0, T_SUB_0 }, { "left_expression",{\ { LA_IS, { "value" }, /*{LA_NOT, { "unsigned_value_terminal" }, 1, { "unary_operation" }}*/ }\}, \ { LA_IS, { "ident_terminal" }, { "left_expression",{\ { LA_IS, {""}, 2, { "ident", "index_action__optional" }}}\}, \
index_action__optional → index_action index_action__optional → ε	index_action__optional → index_action index_action__optional → ε	index_action__optional → index_action index_action__optional → ε	index_action__optional → index_action index_action__optional → ε	index_action__optional = index_action   "";	index_action__optional = index_action   "";	{ LA_IS, { "[" }, { "index_action__optional",{\ { LA_IS, {""}, 1, { "index_action" }}}\}, \ { LA_NOT, { "[" }, { "index_action__optional",{\ { LA_IS, {""}, 0, { "index_action" }}}\}, \

	expression → left_expression binary_action_iteration	expression → left_expression binary_action_iteration	expression → left_expression binary_action_iteration	expression = left_expression >> *binary_action;	expression = left_expression >> binary_action_iteration;	{LA_IS, { "", T_NOT_0, T_ADD_0, T_SUB_0, "ident_terminal", "unsigned_value_terminal", T_IF_0 }, { "expression", {\ {LA_IS, {"", 2, { "left_expression", "binary_action_iteration" }}}}\ }}, \
expression = left_expression, {binary_action};	binary_action_iteration → binary_action binary_action_iteration binary_action_iteration → ε	binary_action_iteration → binary_action binary_action_iteration binary_action_iteration → ε	binary_action_iteration → binary_action binary_action_iteration binary_action_iteration → ε		binary_action_iteration = binary_action >> binary_action_iteration   "";	{LA_IS, { T_AND_0, T_OR_0, T_EQUAL_0, T_NOT_EQUAL_0, T_LESS_0, T_GREATER_0, T_ADD_0, T_SUB_0, T_MUL_0, T_DIV_0, T_MOD_0 }, { "binary_action_iteration", {\ {LA_IS, {"", 2, { "binary_action", "binary_action_iteration" }}}}\ }}, \
group_expression = ("", expression, "");	group_expression → "(" expression ")"	group_expression → "(" expression ")"	group_expression → "(" expression ")"	group_expression = tokenGROUPEXPRESSIONBEGIN >> expression >> tokenGROUPEXPRESSIONEND;	group_expression = tokenGROUPEXPRESSIONBEGIN >> expression >> tokenGROUPEXPRESSIONEND;	{LA_IS, { "(", { "group_expression", {\ {LA_IS, {"", 3, { "(", "expression", ")" }}}}\ }}, \
expression_or_cond_block_with_optional_assign = expression, [">", ident, [index_action]];	expression_or_cond_block_with_optional_assign → expression assign_to_right_optional	expression_or_cond_block_with_optional_assign → expression assign_to_right_optional	expression_or_cond_block_with_optional_assign → expression assign_to_right_optional	expression_or_cond_block_with_optional_assign = expression >> tokenLASSIGN >> ident >> - index_action;	expression_or_cond_block_with_optional_assign = expression >> assign_to_right;	{LA_IS, { "(", T_NOT_0, T_ADD_0, T_SUB_0, "ident_terminal", "unsigned_value_terminal", T_IF_0 }, { "expression_or_cond_block_with_optional_assign", {\ {LA_IS, {"", 2, { "expression", "assign_to_right_optional" }}}}\ }}, \
	assign_to_right → ">" ident index_action_optional	assign_to_right → ">" ident index_action_optional	assign_to_right → ">" ident index_action_optional	assign_to_right = cond_block >> - (tokenLASSIGN >> ident >> - index_action);	assign_to_right = tokenLASSIGN >> ident >> index_action_optional;	{LA_IS, { T_LRASSIGN_0 }, { "assign_to_right", {\ {LA_IS, {"", 3, { T_LRASSIGN_0, "ident", "index_action_optional" }}}}\ }}, \
	assign_to_right_optional → assign_to_right assign_to_right_optional → ε;	assign_to_right_optional → assign_to_right assign_to_right_optional → ε;	assign_to_right_optional → assign_to_right assign_to_right_optional → ε;		assign_to_right_optional = assign_to_right   "";	{ LA_IS, { T_LRASSIGN_0 }, { "assign_to_right_optional", {\ { LA_IS, {"", 1, { "assign_to_right" }}}}\ }}, \
if_expression = expression;	if_expression → expression	if_expression → expression	if_expression → expression	if_expression = SAME_RULE(expression);	if_expression = SAME_RULE(expression);	{ LA_IS, { "(", T_NOT_0, T_ADD_0, T_SUB_0, "ident_terminal", "unsigned_value_terminal", T_IF_0 }, { "if_expression", {\ {LA_IS, {"", 1, { "expression" }}}}\ }}, \
body_for_true = block_statements;	body_for_true → block_statements	body_for_true → block_statements	body_for_true → block_statements	body_for_true = SAME_RULE(statement__or__block_statements);	body_for_true = tokenBEGINBLOCK >> statement_iteration >> expression__optional >> tokenENDBLOCK;	{ LA_IS, { T_BEGIN_BLOCK_0 }, { "body_for_true", {\ {LA_IS, {"", 1, { "block_statements" }}}}\ }}, \
false_cond_block_without_else = "ELSE", "IF", if_expression, body_for_true;	false_cond_block_without_else → "Else" "If" if_expression body_for_true	false_cond_block_without_else → "Else" "If" if_expression body_for_true	false_cond_block_without_else → "Else" "If" if_expression body_for_true	false_cond_block_without_else = tokenELSE >> tokenIF >> if_expression >> body_for_true;	false_cond_block_without_else = tokenELSE >> tokenIF >> if_expression >> body_for_true;	{ LA_IS, { T_ELSE_IF_0 }, { "false_cond_block_without_else", {\ { LA_IS, {"", 4, { T_ELSE_IF_0, T_ELSE_IF_1, "if_expression", "body_for_true" }}}}\ }}, \
body_for_false = "ELSE", block_statements;	body_for_false → "Else" block_statements	body_for_false → "Else" block_statements	body_for_false → "Else" block_statements	body_for_false = tokenELSE >> statement__or__block_statements;	body_for_false = tokenELSE >> body_for_true;	{ LA_IS, { T_ELSE_BLOCK_0 }, { "body_for_false", {\ { LA_IS, {"", 2, { T_ELSE_BLOCK_0, "block_statements" }}}}\ }}, \
cond_block = "If", if_expression, body_for_true, {false_cond_block_without_else}, [body_for_false];	cond_block → "If" if_expression body_for_true false_cond_block_without_else_iteration body_for_false_optional	cond_block → "If" if_expression body_for_true false_cond_block_without_else_iteration body_for_false_optional	cond_block → "If" if_expression body_for_true false_cond_block_without_else_iteration body_for_false_optional	cond_block = tokenIF >> if_expression >> body_for_true >> false_cond_block_without_else_iteration >> *false_cond_block_without_else >> - body_for_false;	cond_block = tokenIF >> if_expression >> body_for_true >> false_cond_block_without_else_iteration >> *false_cond_block_without_else >> - body_for_false;	{ LA_IS, { T_IF_0 }, { "cond_block", {\ { LA_IS, {"", 5, { T_IF_0, "if_expression", "body_for_true", "false_cond_block_without_else_iteration", "body_for_false_optional" }}}}\ }}, \
	false_cond_block_without_else_iteration → false_cond_block_without_else false_cond_block_without_else_iteration false_cond_block_without_else_iteration → ε	false_cond_block_without_else_iteration → false_cond_block_without_else false_cond_block_without_else_iteration false_cond_block_without_else_iteration → ε	false_cond_block_without_else_iteration → false_cond_block_without_else false_cond_block_without_else_iteration false_cond_block_without_else_iteration → ε		false_cond_block_without_else_iteration = false_cond_block_without_else >> false_cond_block_without_else_i	{ LA_IS, { T_ELSE_IF_0 }, { "false_cond_block_without_else", {\ { LA_IS, { T_ELSE_IF_1 }, "false_cond_block_without_else_iteration", "body_for_false_optional" }}}}\ }}, \

					teration   "";	"false_cond_block_without_else", "false_cond_block_without_else__iteration" }},\n{LA_NOT, { T_ELSE_IF_1 }, 0, { "" }}\n}}},\n{LA_NOT, { T_ELSE_IF_0 }, {\n"false_cond_block_without_else__iteration",\n{ LA_IS, {""}, 0, { "" }}\n}}},\n
	body_for_false_optional → body_for_false body_for_false_optional → ε	body_for_false_optional → body_for_false body_for_false_optional → ε	body_for_false_optional → body_for_false body_for_false_optional → ε		body_for_false_optional = body_for_false   "";	{LA_IS, { T_ELSE_BLOCK_0 }, {\n"body_for_false_optional",\n{ LA_IS, {""}, 1, {\n"body_for_false" }}\n}}},\n{LA_NOT, { T_ELSE_BLOCK_0 }, {\n"body_for_false_optional",\n{ LA_IS, {""}, 0, { "" }}\n}}},\n
cycle_begin_expression = expression;	cycle_begin_expression → expression	cycle_begin_expression → expression	cycle_begin_expression(1: "!", "+", "--", "-", "0", "1", "2", "3", "4", "5", "6", "?", "8", "9", "If") → expression	cycle_begin_expression = SAME_RULE(expression);	cycle_begin_expression = SAME_RULE(expression);	{LA_IS, { "!", T_NOT_0, T_ADD_0, T_SUB_0, "ident_terminal",\n"unsigned_value_terminal", T_IF_0 }, {\n"cycle_begin_expression",\n{ LA_IS, {""}, 1, {\n"expression" }}\n}}},\n
cycle_end_expression = expression;	cycle_end_expression → expression	cycle_end_expression → expression	cycle_end_expression → expression	cycle_end_expression = SAME_RULE(expression);	cycle_end_expression = SAME_RULE(expression);	{LA_IS, { "!", T_NOT_0, T_ADD_0, T_SUB_0, "ident_terminal",\n"unsigned_value_terminal", T_IF_0 }, {\n"cycle_end_expression",\n{ LA_IS, {""}, 1, {\n"expression" }}\n}}},\n
cycle_counter = ident;	cycle_counter → ident	cycle_counter → ident	cycle_counter → ident	cycle_counter = SAME_RULE(ident);	cycle_counter = SAME_RULE(ident);	{LA_IS, { "ident_terminal" }, {\n"cycle_counter",\n{ LA_IS, {""}, 1, { "ident" }}\n}}},\n
cycle_counter_lr_init = cycle_begin_expression, ">", cycle_counter;	cycle_counter_lr_init → cycle_begin_expression ">" cycle_counter	cycle_counter_lr_init → cycle_begin_expression ">" cycle_counter	cycle_counter_lr_init → cycle_begin_expression ">" cycle_counter	cycle_counter_lr_init = cycle_begin_expression >> tokenLRASSIGN >> cycle_counter;	cycle_counter_lr_init = cycle_begin_expression >> tokenLRASSIGN >> cycle_counter;	{LA_IS, { "!", T_NOT_0, T_ADD_0, T_SUB_0, "ident_terminal",\n"unsigned_value_terminal", T_IF_0 }, {\n"cycle_counter_lr_init",\n{ LA_IS, {""}, 3, {\n"cycle_begin_expression", T_LRASSIGN_0, "cycle_counter" }}\n}}},\n
cycle_counter_init = cycle_counter_lr_init;	cycle_counter_init → cycle_counter_lr_init	cycle_counter_init → cycle_counter_lr_init	cycle_counter_init → cycle_counter_lr_init	cycle_counter_init = SAME_RULE(cycle_counter_lr_init);	cycle_counter_init = SAME_RULE(cycle_counter_lr_init);	{LA_IS, { "!", T_NOT_0, T_ADD_0, T_SUB_0, "ident_terminal",\n"unsigned_value_terminal", T_IF_0 }, {\n"cycle_counter_init",\n{ LA_IS, {""}, 1, {\n"cycle_counter_lr_init" }}\n}}},\n
cycle_counter_last_value = cycle_end_expression;	cycle_counter_last_value → cycle_end_expression	cycle_counter_last_value → cycle_end_expression	cycle_counter_last_value → cycle_end_expression	cycle_counter_last_value = SAME_RULE(cycle_end_expression);	cycle_counter_last_value = SAME_RULE(cycle_end_expression);	{LA_IS, { "!", T_NOT_0, T_ADD_0, T_SUB_0, "ident_terminal",\n"unsigned_value_terminal", T_IF_0 }, {\n"cycle_counter_last_value",\n{ LA_IS, {""}, 1, {\n"cycle_end_expression" }}\n}}},\n
cycle_body = "DO", {(statement)   block_statements};	cycle_body → "Do" statement_or_block_statements	cycle_body → "Do" statement_or_block_statements	cycle_body → "Do" statement_or_block_statements	cycle_body = tokenDO >> (statement   block_statements);	cycle_body = tokenDO >> statement_or_block_statements;	{LA_IS, { T_DO_0 }, {\n"cycle_body",\n{ LA_IS, {""}, 2, { T_DO_0, "statement_or_block_statements" }}\n}}},\n
fordownto_cycle = "For", cycle_counter_init, "Downto", cycle_counter_last_value, cycle_body;	fordownto_cycle → "For" cycle_counter_init "Downto", cycle_counter_last_value cycle_body	fordownto_cycle → "For" cycle_counter_init "Downto", cycle_counter_last_value cycle_body	fordownto_cycle → "For" cycle_counter_init "Downto", cycle_counter_last_value cycle_body	fordownto_cycle = tokenFOR >> cycle_counter_init >> tokenDOWNT0 >> cycle_counter_last_value >> cycle_body;	fordownto_cycle = tokenFOR >> cycle_counter_init >> tokenDOWNT0 >> cycle_counter_last_value >> cycle_body;	{LA_IS, { T_FOR_0 }, {\n"fordownto_cycle",\n{ LA_IS, {""}, 5, { T_FOR_0, "cycle_counter_init", T_DOWNT0_0, "cycle_counter_last_value", "cycle_body" }}\n}}},\n
	statement_or_block_statements → statement   block_statements	statement_or_block_statements → statement   block_statements	statement_or_block_statements → statement statement_or_block_statements → block_statements		statement_or_block_statements = statement   block_statements;	{LA_IS, { "ident_terminal", "!", T_NOT_0, "unsigned_value_terminal", T_ADD_0, T_SUB_0, T_IF_0, T_FOR_0, T_INPUT_0, T_OUTPUT_0, T_SEMICOLON_0 }, {\n"statement_or_block_statements",\n{ LA_IS, {""}, 1, {\n"statement" }}\n}}},\n{LA_IS, { T_BEGIN_BLOCK_0 }, {\n"statement_or_block_statements" },\n},\n

input_rule="Read", ( ident,[index_action]   ("",ident,[index_action]), "");	input_rule → "Read" argument_for_input	input_rule → "Read" argument_for_input	input_rule → "Read" argument_for_input	input_rule = tokenGET >> (ident >> - index_action   tokenGROUPEXPRESSIONBEGIN >> ident >> -index_action >> tokenGROUPEXPRESSIONEND);	input_rule = tokenGET >> argument_for_input;	{ LA_IS, {"", 1, { "block_statements" } } \ }
	argument_for_input → ident index_action_optional argument_for_input → "(" "ident" "index_action_optional" ")"	argument_for_input → ident index_action_optional argument_for_input → "(" "ident" "index_action_optional" ")"	argument_for_input → ident index_action_optional argument_for_input → "(" "ident" "index_action_optional" ")"		argument_for_input = ident >> index_action_optional   tokenGROUPEXPRESSIONBEGIN >> ident >> index_action_optional >> tokenGROUPEXPRESSIONEND;	{ LA_IS, { "ident_terminal" }, { "argument_for_input", { \ { LA_IS, {"", 2, { "ident", "index_action_optional" } } } \ } } \ } { LA_IS, { "(" }, { "argument_for_input", { \ { LA_IS, {"", 4, { "(", "ident", "index_action_optional", ")" } } } \ } } \ }
output_rule="Write", expression;	output → "Write" expression	output → "Write" expression	output → "Write" expression	output_rule = tokenPUT >> expression;	output_rule = tokenPUT >> expression;	{ LA_IS, { T_OUTPUT_0 }, { "output_rule", { \ { LA_IS, {"", 2, { T_OUTPUT_0, "expression" } } } \ } } \ }
statement = expression_or_cond_block__with_optional_assign   fordownto_cycle   input_rule   output_rule   ":";	statement → expression_or_cond_block__with_optional_assign statement → fordownto_cycle statement → input_rule statement → output_rule statement → ":"	statement → expression_or_cond_block__with_optional_assign statement → fordownto_cycle statement → input_rule statement → output_rule statement → ":"	statement → expression_or_cond_block__with_optional_assign statement → fordownto_cycle statement → input_rule statement → output_rule statement → ":"	statement = expression_or_cond_block__with_optional_assign   cond_block   fordownto_cycle   input_rule   output_rule   tokenSEMICOLON;	statement = expression_or_cond_block__with_optional_assign   assign_to_right   fordownto_cycle   input_rule   output_rule   tokenSEMICOLON;	{ LA_IS, { "(", T_NOT_0, "ident_terminal", "unsigned_value_terminal", T_ADD_0, T_SUB_0, T_IF_0 }, { "statement", { \ { LA_IS, {"", 1, {"expression_or_cond_block__with_optional_assign" } } } \ } } \ } { LA_IS, { T_FOR_0 }, { "statement", { \ { LA_IS, {"", 1, {"fordownto_cycle" } } } \ } } \ } { LA_IS, { T_INPUT_0 }, { "statement", { \ { LA_IS, {"", 1, {"input_rule" } } } \ } } \ } { LA_IS, { T_OUTPUT_0 }, { "statement", { \ { LA_IS, {"", 1, {"output_rule" } } } \ } } \ } { LA_IS, { T_SEMICOLON_0 }, { "statement", { \ { LA_IS, {"", 1, {";" } } } \ } } \ }
	statement_iteration → statement statement_iteration → ε	statement_iteration → statement statement_iteration → ε	statement_iteration → statement statement_iteration → ε		statement__iteration = statement >> statement__iteration   ":";	{ LA_IS, { "ident_terminal", "(", T_NOT_0, "unsigned_value_terminal", T_ADD_0, T_SUB_0, T_IF_0, T_FOR_0, T_INPUT_0, T_OUTPUT_0, T_SEMICOLON_0 }, { "statement__iteration", { \ { LA_IS, {"", 2, { "statement", "statement__iteration" } } } \ } } \ } { LA_NOT, { "ident_terminal", "(", T_NOT_0, "unsigned_value_terminal", T_ADD_0, T_SUB_0, T_IF_0, T_FOR_0, T_INPUT_0, T_OUTPUT_0, T_SEMICOLON_0 }, { "statement__iteration", { \ { LA_IS, {"", 0, {";" } } } \ } } \ }
block_statements="(", {statement}, ")";	block_statements → "(" statement__iteration ")"	block_statements → "(" statement__iteration ")"	block_statements → "(" statement__iteration ")"	block_statements = tokenBEGINBLOCK >> *statement >> tokenENDBLOCK;	block_statements = tokenBEGINBLOCK >> statement__iteration >> tokenENDBLOCK;	{ LA_IS, { T_BEGIN_BLOCK_0 }, { "block_statements", { \ { LA_IS, {"", 3, { T_BEGIN_BLOCK_0, "statement__iteration", T_END_BLOCK_0 } } } \ } } \ }
	expression_optional → expression expression_optional → ε	expression_optional → expression expression_optional → ε	expression_optional → expression expression_optional → ε		expression_optional = expression   ":";	{ LA_IS, { "(", T_NOT_0, T_ADD_0, T_SUB_0, "ident_terminal", "unsigned_value_terminal", T_IF_0 }, { "expression_optional", { \ { LA_IS, {"", 1, { "expression" } } } \ } } \ } { LA_NOT, { "(", T_NOT_0, T_ADD_0, T_SUB_0, "ident_terminal", "unsigned_value_terminal", T_IF_0 }, { "expression_optional", { \

					{ LA_IS, {"\""}, 0, { "" } }\
program_rule = "#Program" program_name ";" "" "Variable" declaration_optional ";" statement_iteration "Stop"	program_rule → "#Program" program_name ";" "" "Variable" declaration_optional ";" statement_iteration "Stop"	program_rule → "#Program" program_name ";" "" "Variable" declaration_optional ";" statement_iteration "Stop"	program_rule(1: "#Program") → "#Program" program_name ";" "" "Variable" declaration_optional ";" statement_iteration "Stop"	program_rule = BOUNDARIES >> tokenNAME >> program_name >> tokenSEMICOLON >> tokenDATA >> declaration_optional >> tokenSEMICOLON >> tokenBEGIN >> statement_iteration >> tokenEND;	{ LA_IS, { T_NAME_0 }, { "program_rule", { \{ LA_IS, {"\""}, 9, { T_NAME_0, "program_name", T_SEMICOLON_0, T_DATA_0, "declaration_optional", T_SEMICOLON_0, T_BEGIN_0, "statement_iteration", T_END_0 } \} } }\
value = [sign], unsigned_value;	declaration_optional → declaration declaration_optional → ε	declaration_optional → declaration declaration_optional → ε	declaration_optional(1: "Integer_2") → declaration declaration_optional(1: !"Integer_2") → ε	declaration_optional = declaration   "";	{ LA_IS, { T_DATA_TYPE_0 }, { "declaration_optional", { \{ LA_IS, {"\""}, 1, { "declaration" } \} } }\
sign=sign_plus   sign_minus;	sign_optional → sign sign_optional → ε	sign_optional → sign sign_optional → ε	sign_optional(1: "+" , "--") → sign sign_optional(1: !"++" , !"--) → ε	value = sign_optional >> unsigned_value >> BOUNDARIES;	{ LA_IS, { "unsigned_value_terminal", T_ADD_0, T_SUB_0 }, { "value", { \{ LA_IS, {"\""}, 2, { "sign_optional", "unsigned_value" } \} } }\
sign_plus="++";	sign → sign_plus sign → sign_minus	sign → sign_plus sign → sign_minus	sign(1: "+") → sign_plus sign(1: "--") → sign_minus	sign_optional = sign   "";	{ LA_IS, { T_ADD_0, T_SUB_0 }, { "sign_optional", { \{ LA_IS, {"\""}, 1, { "sign" } \} } }\
sign_minus="--";	sign_plus → "+"	sign_plus → "+"	sign_plus(1: "+") → "+"	sign = qi::char_( '-' ) >> (qi::char_( '-' ));	{ LA_IS, { T_ADD_0 }, { "sign", { \{ LA_IS, {"\""}, 1, { "sign_plus" } \} } }\
unsigned_value = non_zero_digit digit   "0";	sign_minus → "--"	sign_minus → "--"	sign_minus(1: "--") → "--"	sign_plus = SAME_RULE(tokenPLUS);	{ LA_IS, { T_SUB_0 }, { "sign_minus", { \{ LA_IS, {"\""}, 1, { T_SUB_0 } \} } }\
digit="0"   non_zero_digit;	unsigned_value → non_zero_digit digit_iteration unsigned_value → "0"	unsigned_value → non_zero_digit digit_iteration unsigned_value → "0"	unsigned_value(1: "1", "2", "3", "4", "5", "6", "7", "8", "9") → non_zero_digit digit_iteration unsigned_value(1: "0") → "0"	sign_minus = SAME_RULE(tokenMINUS);	{ LA_IS, { T_SUB_0 }, { "sign_minus", { \{ LA_IS, {"\""}, 1, { T_SUB_0 } \} } }\
non_zero_digit="1"   "2"   "3"   "4"   "5"   "6"   "7"   "8"   "9";	digit_iteration → digit digit_iteration digit_iteration → ε	digit_iteration → digit digit_iteration digit_iteration → ε	digit_iteration(1: "0", "1", "2", "3", "4", "5", "6", "7", "8", "9") → digit digit_iteration	unsigned_value = ((non_zero_digit >> *digit)   digit_0) >> BOUNDARIES;	/* unsigned_value_token represents unsigned_value in lexical analyzer */\n{ LA_IS, { "unsigned_value_terminal" }, { "unsigned_value", { \{ LA_IS, {"\""}, 1, { "unsigned_value_terminal" } \} } }\
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;	digit → "0"	digit → "0"	digit(1: "0") → "0"	digit_iteration = digit;	digit_0 = '0';\n    digit = digit_0   non_zero_digit;
Ident → "_" digit letter_in_upper_case letter_in_upper_case letter_in_upper_case	non_zero_digit → "1"	non_zero_digit → "1"	non_zero_digit → "1"	digit_1 = '1';\n    digit_2 = '2';\n    digit_3 = '3';\n    digit_4 = '4';\n    digit_5 = '5';\n    digit_6 = '6';\n    digit_7 = '7';\n    digit_8 = '8';\n    digit_9 = '9';	non_zero_digit = digit_1   digit_2   digit_3   digit_4   digit_5   digit_6   digit_7   digit_8   digit_9;
	non_zero_digit → "2"	non_zero_digit → "2"	non_zero_digit → "2"	digit_1 = '1';\n    digit_2 = '2';\n    digit_3 = '3';\n    digit_4 = '4';\n    digit_5 = '5';\n    digit_6 = '6';\n    digit_7 = '7';\n    digit_8 = '8';\n    digit_9 = '9';	/* ident_token represents ident in lexical analyzer */\n{ LA_IS, { "ident_terminal" }, { "ident", { \{ LA_IS, {"\""}, 1, { "ident_terminal" } \} } }\
	non_zero_digit → "3"	non_zero_digit → "3"	non_zero_digit → "3"	digit_1 = '1';\n    digit_2 = '2';\n    digit_3 = '3';\n    digit_4 = '4';\n    digit_5 = '5';\n    digit_6 = '6';\n    digit_7 = '7';\n    digit_8 = '8';\n    digit_9 = '9';	
	non_zero_digit → "4"	non_zero_digit → "4"	non_zero_digit → "4"	digit_1 = '1';\n    digit_2 = '2';\n    digit_3 = '3';\n    digit_4 = '4';\n    digit_5 = '5';\n    digit_6 = '6';\n    digit_7 = '7';\n    digit_8 = '8';\n    digit_9 = '9';	
	non_zero_digit → "5"	non_zero_digit → "5"	non_zero_digit → "5"	digit_1 = '1';\n    digit_2 = '2';\n    digit_3 = '3';\n    digit_4 = '4';\n    digit_5 = '5';\n    digit_6 = '6';\n    digit_7 = '7';\n    digit_8 = '8';\n    digit_9 = '9';	
	non_zero_digit → "6"	non_zero_digit → "6"	non_zero_digit → "6"	digit_1 = '1';\n    digit_2 = '2';\n    digit_3 = '3';\n    digit_4 = '4';\n    digit_5 = '5';\n    digit_6 = '6';\n    digit_7 = '7';\n    digit_8 = '8';\n    digit_9 = '9';	
	non_zero_digit → "7"	non_zero_digit → "7"	non_zero_digit → "7"	digit_1 = '1';\n    digit_2 = '2';\n    digit_3 = '3';\n    digit_4 = '4';\n    digit_5 = '5';\n    digit_6 = '6';\n    digit_7 = '7';\n    digit_8 = '8';\n    digit_9 = '9';	
	non_zero_digit → "8"	non_zero_digit → "8"	non_zero_digit → "8"	digit_1 = '1';\n    digit_2 = '2';\n    digit_3 = '3';\n    digit_4 = '4';\n    digit_5 = '5';\n    digit_6 = '6';\n    digit_7 = '7';\n    digit_8 = '8';\n    digit_9 = '9';	
	non_zero_digit → "9"	non_zero_digit → "9"	non_zero_digit → "9"	digit_1 = '1';\n    digit_2 = '2';\n    digit_3 = '3';\n    digit_4 = '4';\n    digit_5 = '5';\n    digit_6 = '6';\n    digit_7 = '7';\n    digit_8 = '8';\n    digit_9 = '9';	



				BOUNDARY__CARRIAGE_RETURN, \ BOUNDARY__LINE_FEED, \ BOUNDARY__NULL, \ NO_BOUNDARY	
					}, \ " <a href="#">program_rule</a> "