

		<div>"", "!", "&", " ", "==", "!=", "<", ">", "+", "-", "*", "/", "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"} </div>	<div>"", "!", "&", " ", "==", "!=", "<", ">", "+", "-", "*", "/", "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"} </div>	<div>tokenINTEGER16, \ tokenCOMMA, \ tokenNOT, \ tokenAND, \ tokenOR, \ tokenEQUAL, \ tokenNOTEQUAL, \ tokenLESS, \ tokenGREATER, \ tokenPLUS, \ tokenMINUS, \ tokenMUL, \ tokenDIV, \ tokenMOD, \ tokenGROUPEXPRESSIONBEGIN, \ tokenGROUPEXPRESSIONEND, \ tokenLRASSIGN, \ tokenELSE, \ tokenIF, \ tokenDO, \ tokenFOR, \ tokenDOWNT0, \ tokenEXIT, \ tokenGET, \ tokenPUT, \ tokenNAME, \ tokenBODY, \ tokenDATA, \ tokenBEGIN, \ tokenEND, \ tokenBEGINBLOCK, \ tokenENDBLOCK, \ tokenLEFTSQUAREBRACKETS, \ tokenRIGHTSQUAREBRACKETS, \ tokenSEMICOLON, \ digit_0, \ digit_1, \ digit_2, \ digit_3, \ digit_4, \ digit_5, \ digit_6, \ digit_7, \ digit_8, \ digit_9, \ tokenUNDERSCORE, \ 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, \ </div>	<div>tokenINTEGER16, \ tokenCOMMA, \ tokenNOT, \ tokenAND, \ tokenOR, \ tokenEQUAL, \ tokenNOTEQUAL, \ tokenLESS, \ tokenGREATER, \ tokenPLUS, \ tokenMINUS, \ tokenMUL, \ tokenDIV, \ tokenMOD, \ tokenGROUPEXPRESSIONBEGIN, \ tokenGROUPEXPRESSIONEND, \ tokenLRASSIGN, \ tokenELSE, \ tokenIF, \ tokenDO, \ tokenFOR, \ tokenDOWNT0, \ tokenEXIT, \ tokenGET, \ tokenPUT, \ tokenNAME, \ tokenBODY, \ tokenDATA, \ tokenBEGIN, \ tokenEND, \ tokenBEGINBLOCK, \ tokenENDBLOCK, \ tokenLEFTSQUAREBRACKETS, \ tokenRIGHTSQUAREBRACKETS, \ tokenSEMICOLON, \ digit_0, \ digit_1, \ digit_2, \ digit_3, \ digit_4, \ digit_5, \ digit_6, \ digit_7, \ digit_8, \ digit_9, \ tokenUNDERSCORE, \ 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, \ </div>	
--	--	--	--	--	--	--

				y, \ z	y, \ z	
				#define COMMENT_BEGIN_STR "//" #define COMMENT_END_STR "\n"	#define COMMENT_BEGIN_STR "//" #define COMMENT_END_STR "\n"	#define COMMENT_BEGIN_STR "//" #define COMMENT_END_STR "\n"
						#define TOKENS_RE " > \\+\\ + --- ** == != [_#0-9A-Za-z]+ [^ \\t\\r\\f\\v\\n]"
						#define KEYWORDS_RE "; -> \\+\\ + --- ** , = = =: \\[\\] \\(\\) \\{ \\} #Program Variable Start Stop Read Write If Else For Do wnto Do Div Mod < > ! & \\ Integer_2"
						#define IDENTIFIERS_RE "_[0-9][A-Z][A-Z]"
						#define UNSIGNEDVALUES_RE "0 [1-9][0-9]*"
				tokenGROUPEXPRESSIONBEGIN = "(" >> BOUNDARIES;	tokenGROUPEXPRESSIONBEGIN = "(" >> BOUNDARIES;	#define T_BEGIN GROUPEXPRESSION_0 "(" #define T_BEGIN GROUPEXPRESSION_1 " #define T_BEGIN GROUPEXPRESSION_2 " #define T_BEGIN GROUPEXPRESSION_3 "
				tokenGROUPEXPRESSIONEND = ")" >> BOUNDARIES;	tokenGROUPEXPRESSIONEND = ")" >> BOUNDARIES;	#define T_END GROUPEXPRESSION_0 ")" #define T_END GROUPEXPRESSION_1 " #define T_END GROUPEXPRESSION_2 " #define T_END GROUPEXPRESSION_3 "
				tokenLEFTSQUAREBRACKETS = "[" >> BOUNDARIES;	tokenLEFTSQUAREBRACKETS = "[" >> BOUNDARIES;	#define T_LEFT SQUAREBRACKETS_0 "[" #define T_LEFT SQUAREBRACKETS_1 " #define T_LEFT SQUAREBRACKETS_2 " #define T_LEFT SQUAREBRACKETS_3 "
				tokenRIGHTSQUAREBRACKETS = "]" >> BOUNDARIES;	tokenRIGHTSQUAREBRACKETS = "]" >> BOUNDARIES;	#define T_RIGHT SQUAREBRACKETS_0 "]" #define T_RIGHT SQUAREBRACKETS_1 " #define T_RIGHT SQUAREBRACKETS_2 " #define T_RIGHT SQUAREBRACKETS_3 "
				tokenBEGINBLOCK = "{" >> BOUNDARIES;	tokenBEGINBLOCK = "{" >> BOUNDARIES;	#define T_BEGIN_BLOCK_0 "{" #define T_BEGIN_BLOCK_1 " #define T_BEGIN_BLOCK_2 " #define T_BEGIN_BLOCK_3 "
				tokenENDBLOCK = "}" >> BOUNDARIES;	tokenENDBLOCK = "}" >> BOUNDARIES;	#define T_END_BLOCK_0 "}" #define T_END_BLOCK_1 " #define T_END_BLOCK_2 " #define T_END_BLOCK_3 "
				tokenSEMICOLON = ";" >> BOUNDARIES;	tokenSEMICOLON = ";" >> BOUNDARIES;	#define T_SEMICOLON_0 ";" #define T_SEMICOLON_1 " #define T_SEMICOLON_2 " #define T_SEMICOLON_3 "
				tokenINTEGER16 = "Integer_2" >> STRICT_BOUNDARIES;	tokenINTEGER16 = "Integer_2" >> STRICT_BOUNDARIES;	#define T_DATA_TYPE_0 "Integer_2" #define T_DATA_TYPE_1 " #define T_DATA_TYPE_2 " #define T_DATA_TYPE_3 "
				tokenCOMMA = "," >> BOUNDARIES;	tokenCOMMA = "," >> BOUNDARIES;	#define T_COMA_0 "," #define T_COMA_1 " #define T_COMA_2 " #define T_COMA_3 "
						#define T_BITWISE_NOT_0 "~" #define T_BITWISE_NOT_1 " #define T_BITWISE_NOT_2 " #define T_BITWISE_NOT_3 "
				tokenNOT = "!" >> BOUNDARIES;	tokenNOT = "!" >> BOUNDARIES;	#define T_NOT_0 "!" #define T_NOT_1 " #define T_NOT_2 " #define T_NOT_3 "
						#define T_BITWISE_AND_0 "&" #define T_BITWISE_AND_1 " #define T_BITWISE_AND_2 " #define T_BITWISE_AND_3 "
				tokenAND = "&" >> BOUNDARIES;	tokenAND = "&" >> BOUNDARIES;	#define T_AND_0 "&" #define T_AND_1 " #define T_AND_2 " #define T_AND_3 "
						#define T_BITWISE_OR_0 " " #define T_BITWISE_OR_1 " #define T_BITWISE_OR_2 " #define T_BITWISE_OR_3 "
				tokenOR = " " >> BOUNDARIES;	tokenOR = " " >> BOUNDARIES;	#define T_OR_0 " " #define T_OR_1 " #define T_OR_2 " #define T_OR_3 "

				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_NOT_EQUAL_0 "!=" #define T_NOT_EQUAL_1 "" #define T_NOT_EQUAL_2 "" #define T_NOT_EQUAL_3 ""
				tokenLESS = "<" >> BOUNDARIES;	tokenLESS = "<" >> BOUNDARIES;	#define T_LESS_0 "<" #define T_LESS_1 "" #define T_LESS_2 "" #define T_LESS_3 ""
				tokenGREATER = ">" >> BOUNDARIES; tokenPLUS = "++" >> BOUNDARIES;	tokenGREATER = ">" >> BOUNDARIES;	#define T_GREATER_0 ">" #define T_GREATER_1 "" #define T_GREATER_2 "" #define T_GREATER_3 ""
				tokenMINUS = "--" >> BOUNDARIES;	tokenPLUS = "++" >> BOUNDARIES;	#define T_ADD_0 "++" #define T_ADD_1 "" #define T_ADD_2 "" #define T_ADD_3 ""
				tokenMUL = "*" >> BOUNDARIES;	tokenMINUS = "--" >> BOUNDARIES;	#define T_SUB_0 "--" #define T_SUB_1 "" #define T_SUB_2 "" #define T_SUB_3 ""
				tokenDIV = "Div" >> STRICT_BOUNDARIES;	tokenMUL = "*" >> BOUNDARIES;	#define T_MUL_0 "*" #define T_MUL_1 "" #define T_MUL_2 "" #define T_MUL_3 ""
				tokenMOD = "Mod" >> STRICT_BOUNDARIES;	tokenDIV = "Div" >> STRICT_BOUNDARIES;	#define T_DIV_0 "Div" #define T_DIV_1 "" #define T_DIV_2 "" #define T_DIV_3 ""
				tokenLRASSIGN = "->" >> BOUNDARIES;	tokenMOD = "Mod" >> STRICT_BOUNDARIES;	#define T_MOD_0 "Mod" #define T_MOD_1 "" #define T_MOD_2 "" #define T_MOD_3 ""
					tokenLRASSIGN = "->" >> BOUNDARIES;	#define T_LRASSIGN_0 "->" #define T_LRASSIGN_1 "" #define T_LRASSIGN_2 "" #define T_LRASSIGN_3 ""
				tokenELSE = "Else" >> STRICT_BOUNDARIES;		#define T_THEN_BLOCK_0 "{" #define T_THEN_BLOCK_1 "" #define T_THEN_BLOCK_2 "" #define T_THEN_BLOCK_3 ""
				tokenIF = "If" >> 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;	#define T_IF_0 "If" #define T_IF_1 "" #define T_IF_2 "" #define T_IF_3 ""
				tokenDO = "Do" >> STRICT_BOUNDARIES;		#define T_ELSE_IF_0 "Else" #define T_ELSE_IF_1 T_IF_0 #define T_ELSE_IF_2 "" #define T_ELSE_IF_3 ""
				tokenFOR = "For" >> STRICT_BOUNDARIES;	tokenDO = "Do" >> STRICT_BOUNDARIES;	#define T_DO_0 "Do" #define T_DO_1 "" #define T_DO_2 "" #define T_DO_3 ""
				tokenDOWNT0 = "Downto" >> STRICT_BOUNDARIES;	tokenFOR = "For" >> STRICT_BOUNDARIES;	#define T_FOR_0 "For" #define T_FOR_1 "" #define T_FOR_2 "" #define T_FOR_3 ""
				tokenEXIT = "EXIT" >> STRICT_BOUNDARIES;	tokenDOWNT0 = "Downto" >> STRICT_BOUNDARIES;	#define T_DOWNT0_0 "Downto" #define T_DOWNT0_1 "" #define T_DOWNT0_2 "" #define T_DOWNT0_3 ""
				tokenGET = "Read" >> STRICT_BOUNDARIES;	tokenEXIT = "EXIT" >> STRICT_BOUNDARIES;	#define T_EXIT_0 "" #define T_EXIT_1 "" #define T_EXIT_2 "" #define T_EXIT_3 ""
				tokenPUT = "Write" >> STRICT_BOUNDARIES;	tokenGET = "Read" >> STRICT_BOUNDARIES;	#define T_INPUT_0 "Read" #define T_INPUT_1 "" #define T_INPUT_2 "" #define T_INPUT_3 ""
				tokenNAME = "#Program" >> STRICT_BOUNDARIES;	tokenPUT = "Write" >> STRICT_BOUNDARIES;	#define T_OUTPUT_0 "Write" #define T_OUTPUT_1 "" #define T_OUTPUT_2 "" #define T_OUTPUT_3 ""
				tokenBODY = "BODY" >> STRICT_BOUNDARIES;	tokenNAME = "#Program" >> STRICT_BOUNDARIES;	#define T_NAME_0 "#Program" #define T_NAME_1 "" #define T_NAME_2 "" #define T_NAME_3 ""
				tokenDATA = "Variable" >> STRICT_BOUNDARIES;	tokenBODY = "BODY" >> STRICT_BOUNDARIES;	#define T_BODY_0 "" #define T_BODY_1 "" #define T_BODY_2 "" #define T_BODY_3 ""
				tokenBEGIN = "Start" >> 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;	#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",{\
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",{\
	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",{\
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",{\
	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",{\
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",{\
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__iterati on;	{ LA_IS, {T_DATA_TYPE_0}, { "declaration",{\
	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__iterati on = other_declaration_ident >> other_declaration_ident__iterati on "";	{ LA_IS, { T_COMA_0 }, { "other_declaration_ident__iterat ion",{\
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",{\
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",{\
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",{\
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 → "&" 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",{\

	binary_operator → "Mod"	binary_operator → "Mod"	binary_operator → "Mod"			<pre>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 }}}\ }}},\ }}</pre>
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;	<pre>{ 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" }}\ }}},\ }}</pre>
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__optional value;	<pre>{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, { "unsigned_value_terminal"}, 1, { "value" }}\ /*{LA_NOT, { "unsigned_value_terminal" }, 1, { "unary_operation" }}*/\ }}},\ {LA_IS, { "ident_terminal" }, { "left_expression",{\ {LA_IS, {""}, 2, { "ident", "index_action__optional" }}\ }}},\ }}</pre>
	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 "";	<pre>{LA_IS, { "[" }, { "index_action__optional",{\ {LA_IS, {""}, 1, { "index_action" }}\ }}},\ {LA_NOT, { "[" }, { "index_action__optional",{\ {LA_IS, {""}, 0, { "" }}\ }}},\ }}</pre>

expression = left_expression , {binary_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", {\n {LA_IS, {\n}, 2, {\n "left_expression", "binary_action__iteration" }}\n }},\n
	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 }, {\n "binary_action__iteration", {\n {LA_IS, {\n}, 2, {\n "binary_action", "binary_action__iteration" }}\n }},\n {LA_NOT, { 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 }, {\n "binary_action__iteration", {\n {LA_IS, {\n}, 0, {\n "" }}\n }},\n
group_expression = "(" , expression , ")";	group_expression → "(" expression ")"	group_expression → "(" expression ")"	group_expression → "(" expression ")"	group_expression = tokenGROUPEXPRESSIONBEGIN >> expression >> tokenGROUPEXPRESSIONEND;	group_expression = tokenGROUPEXPRESSIONBEGIN >> expression >> tokenGROUPEXPRESSIONEND;	{LA_IS, { "(" }, {\n "group_expression", {\n {LA_IS, {\n}, 3, {\n "(" , "expression", ")" }}\n }},\n
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 >> tokenLRASSIGN >> 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 }, {\n "expression_or_cond_block__with_optional_assign", {\n {LA_IS, {\n}, 2, {\n "expression", "assign_to_right__optional" }}\n }},\n
	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 >> - (tokenLRASSIGN >> ident >> - index_action);	assign_to_right = tokenLRASSIGN >> ident >> index_action__optional;	{LA_IS, { T_LRASSIGN_0 }, {\n "assign_to_right", {\n {LA_IS, {\n}, 3, {\n T_LRASSIGN_0, "ident", "index_action__optional" }}\n }},\n
	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 }, {\n "assign_to_right__optional", {\n { LA_IS, {\n}, 1, {\n "assign_to_right" }}\n }},\n { LA_NOT, { T_LRASSIGN_0 }, {\n "assign_to_right__optional", {\n { LA_IS, {\n}, 0, {\n "" }}\n }},\n
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 }, {\n "if_expression", {\n {LA_IS, {\n}, 1, {\n "expression" }}\n }},\n
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 }, {\n "body_for_true", {\n {LA_IS, {\n}, 1, {\n "block_statements" }}\n }},\n
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 }, {\n "false_cond_block_without_else", {\n {LA_IS, {\n}, 4, {\n T_ELSE_IF_0, T_ELSE_IF_1, "if_expression", "body_for_true" }}\n }},\n
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 }, {\n "body_for_false", {\n {LA_IS, {\n}, 2, {\n T_ELSE_BLOCK_0, "block_statements" }}\n }},\n
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 >> - body_for_false;	cond_block = tokenIF >> if_expression >> body_for_true >> false_cond_block_without_else__iteration >> body_for_false__optional >> assign_to_right__optional;	{LA_IS, { T_IF_0 }, {\n "cond_block", {\n {LA_IS, {\n}, 5, {\n T_IF_0, "if_expression", "body_for_true", "false_cond_block_without_else__iteration", "body_for_false__optional" }}\n }},\n
	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__iteration	{LA_IS, { T_ELSE_IF_0 }, {\n "false_cond_block_without_else__iteration", {\n {LA_IS, { T_ELSE_IF_1}, 2, {\n

					teration "";	"false_cond_block_without_else", "false_cond_block_without_else__iteration" }},\n {LA_NOT, { T_ELSE_IF_1 }, 0, { "" }}\n },\n {\n {LA_NOT, { T_ELSE_IF_0 }, { "false_cond_block_without_else__iteration", {\n {LA_IS, {""}, 0, { "" }}\n }}}\n },\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 }, { "body_for_false__optional", {\n {LA_IS, {""}, 1, { "body_for_false" }}\n}}},\n{\n {LA_NOT, { T_ELSE_BLOCK_0 }, { "body_for_false__optional", {\n {LA_IS, {""}, 0, { "" }}\n }}}\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", "7", "8", "9", " f") → 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", "unsigned_value_terminal", T_IF_0 }, { "cycle_begin_expression", {\n {LA_IS, {""}, 1, { "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", "unsigned_value_terminal", T_IF_0 }, { "cycle_end_expression", {\n {LA_IS, {""}, 1, { "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" }, { "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", "unsigned_value_terminal", T_IF_0 }, { "cycle_counter_lr_init", {\n {LA_IS, {""}, 3, { "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", "unsigned_value_terminal", T_IF_0 }, { "cycle_counter_init", {\n {LA_IS, { "" }, 1, { "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", "unsigned_value_terminal", T_IF_0 }, { "cycle_counter_last_value", {\n {LA_IS, {""}, 1, { "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 }, { "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 }, { "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 = tokenBEGINBLOCK >> *statement >> - expression >> tokenENDBLOCK;	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 }, { "statement__or__block_statements" ", {\n {LA_IS, {""}, 1, { "statement" }}\n}}},\n{\n {LA_IS, { T_BEGIN_BLOCK_0 }, { "statement__or__block_statements" ", {\n

						<pre>{LA_IS, {"", 1, { "block_statements" }}}\ }}},\</pre>
<pre>input_rule = "Read", (ident, [index_action] "(" , ident, [index_action], ")");</pre>	<pre>input_rule → "Read" argument_for_input</pre>	<pre>input_rule → "Read" argument_for_input</pre>	<pre>input_rule → "Read" argument_for_input</pre>	<pre>input_rule = tokenGET >> (ident >> - index_action tokenGROUPEXPRESSIONBEGIN >> ident >> -index_action >> tokenGROUPEXPRESSIONEND);</pre>	<pre>input_rule = tokenGET >> argument_for_input;</pre>	<pre>{LA_IS, { T_INPUT_0 }, { "input_rule",{\ {LA_IS, {"", 2, { T_INPUT_0, "argument_for_input" }}}\ }}},\</pre>
	<pre>argument_for_input → ident index_action__optional argument_for_input → "(" "ident" "index_action__optional")"</pre>	<pre>argument_for_input → ident index_action__optional argument_for_input → "(" "ident" "index_action__optional")"</pre>	<pre>argument_for_input → ident index_action__optional argument_for_input → "(" "ident" "index_action__optional")"</pre>	<pre>argument_for_input = SAME_RULE(ident);</pre>	<pre>argument_for_input = ident >> index_action__optional tokenGROUPEXPRESSIONBEGIN >> ident >> index_action__optional >> tokenGROUPEXPRESSIONEND;</pre>	<pre>{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", ")" }}}\ }}},\</pre>
<pre>output_rule = "Write", expression;</pre>	<pre>output → "Write" expression</pre>	<pre>output → "Write" expression</pre>	<pre>output → "Write" expression</pre>	<pre>output_rule = tokenPUT >> expression;</pre>	<pre>output_rule = tokenPUT >> expression;</pre>	<pre>{LA_IS, { T_OUTPUT_0 }, { "output_rule", {\ {LA_IS, { "" }, 2, {T_OUTPUT_0, "expression" }}\ }}},\</pre>
<pre>statement = expression_or_cond_block__with_optional_assign fordownto_cycle input_rule output_rule ";";</pre>	<pre>statement → expression_or_cond_block__with_optional_assign statement → fordownto_cycle statement → input_rule statement → output_rule statement → ";"</pre>	<pre>statement → expression_or_cond_block__with_optional_assign statement → fordownto_cycle statement → input_rule statement → output_rule statement → ";"</pre>	<pre>statement → expression_or_cond_block__with_optional_assign statement → fordownto_cycle statement → input_rule statement → output_rule statement → ";"</pre>	<pre>statement = expression_or_cond_block__with_option al_assign assign_to_right fordownto_cycle input_rule output_rule tokenSEMICOLON;</pre>	<pre>statement = expression_or_cond_block__with_o ptional_assign cond_block fordownto_cycle input_rule output_rule tokenSEMICOLON;</pre>	<pre>{LA_IS, { "(" , T_NOT_0, "ident_terminal", "unsigned_value_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, {"";"}}\ }}},\</pre>
	<pre>statement__iteration → statement statement__iteration statement__iteration → ε</pre>	<pre>statement__iteration → statement statement__iteration statement__iteration → ε</pre>	<pre>statement__iteration → statement statement__iteration statement__iteration → ε</pre>		<pre>statement__iteration = statement >> statement__iteration "";</pre>	<pre>{ 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, { "" }}}\ }}},\</pre>
<pre>block_statements = "{", {statement}, "}";</pre>	<pre>block_statements → "{" statement__iteration}"</pre>	<pre>block_statements → "{" statement__iteration}"</pre>	<pre>block_statements → "{" statement__iteration}"</pre>	<pre>block_statements = tokenBEGINBLOCK >> *statement >> tokenENDBLOCK;</pre>	<pre>block_statements = tokenBEGINBLOCK >> statement__iteration >> tokenENDBLOCK;</pre>	<pre>{ LA_IS, { T_BEGIN_BLOCK_0 }, { "block_statements",{\ { LA_IS, {"", 3, { T_BEGIN_BLOCK_0, "statement__iteration", T_END_BLOCK_0 }}\ }}},\</pre>
	<pre>expression__optional → expression expression__optional → ε</pre>	<pre>expression__optional → expression expression__optional → ε</pre>	<pre>expression__optional → expression expression__optional → ε</pre>		<pre>expression__optional = expression "";</pre>	<pre>{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",{\</pre>

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

	program_name → ident	letter_in_lower_case → "a" letter_in_lower_case → "b" letter_in_lower_case → "c" letter_in_lower_case → "d" letter_in_lower_case → "e" letter_in_lower_case → "f" letter_in_lower_case → "g" letter_in_lower_case → "h" letter_in_lower_case → "i" letter_in_lower_case → "j" letter_in_lower_case → "k" letter_in_lower_case → "l" letter_in_lower_case → "m" letter_in_lower_case → "n" letter_in_lower_case → "o" letter_in_lower_case → "p" letter_in_lower_case → "q" letter_in_lower_case → "r" letter_in_lower_case → "s" letter_in_lower_case → "t" letter_in_lower_case → "u" letter_in_lower_case → "v" letter_in_lower_case → "w" letter_in_lower_case → "x" letter_in_lower_case → "y" letter_in_lower_case → "z"	letter_in_lower_case(1: "a") → "a" letter_in_lower_case(1: "b") → "b" letter_in_lower_case(1: "c") → "c" letter_in_lower_case(1: "d") → "d" letter_in_lower_case(1: "e") → "e" letter_in_lower_case(1: "f") → "f" letter_in_lower_case(1: "g") → "g" letter_in_lower_case(1: "h") → "h" letter_in_lower_case(1: "i") → "i" letter_in_lower_case(1: "j") → "j" letter_in_lower_case(1: "k") → "k" letter_in_lower_case(1: "l") → "l" letter_in_lower_case(1: "m") → "m" letter_in_lower_case(1: "n") → "n" letter_in_lower_case(1: "o") → "o" letter_in_lower_case(1: "p") → "p" letter_in_lower_case(1: "q") → "q" letter_in_lower_case(1: "r") → "r" letter_in_lower_case(1: "s") → "s" letter_in_lower_case(1: "t") → "t" letter_in_lower_case(1: "u") → "u" letter_in_lower_case(1: "v") → "v" letter_in_lower_case(1: "w") → "w" letter_in_lower_case(1: "x") → "x" letter_in_lower_case(1: "y") → "y" letter_in_lower_case(1: "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"; 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"; Y = "Y"; Z = "Z";	\\
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";	letter_in_upper_case → "A" letter_in_upper_case → "B" letter_in_upper_case → "C" letter_in_upper_case → "D" letter_in_upper_case → "E" letter_in_upper_case → "F" letter_in_upper_case → "G" letter_in_upper_case → "H" letter_in_upper_case → "I" letter_in_upper_case → "J" letter_in_upper_case → "K" letter_in_upper_case → "L" letter_in_upper_case → "M" letter_in_upper_case → "N" letter_in_upper_case → "O" letter_in_upper_case → "P" letter_in_upper_case → "Q" letter_in_upper_case → "R" letter_in_upper_case → "S" letter_in_upper_case → "T" letter_in_upper_case → "U" letter_in_upper_case → "V" letter_in_upper_case → "W" letter_in_upper_case → "X" letter_in_upper_case → "Y" letter_in_upper_case → "Z"	letter_in_upper_case(1: "A") → "A" letter_in_upper_case(1: "B") → "B" letter_in_upper_case(1: "C") → "C" letter_in_upper_case(1: "D") → "D" letter_in_upper_case(1: "E") → "E" letter_in_upper_case(1: "F") → "F" letter_in_upper_case(1: "G") → "G" letter_in_upper_case(1: "H") → "H" letter_in_upper_case(1: "I") → "I" letter_in_upper_case(1: "J") → "J" letter_in_upper_case(1: "K") → "K" letter_in_upper_case(1: "L") → "L" letter_in_upper_case(1: "M") → "M" letter_in_upper_case(1: "N") → "N" letter_in_upper_case(1: "O") → "O" letter_in_upper_case(1: "P") → "P" letter_in_upper_case(1: "Q") → "Q" letter_in_upper_case(1: "R") → "R" letter_in_upper_case(1: "S") → "S" letter_in_upper_case(1: "T") → "T" letter_in_upper_case(1: "U") → "U" letter_in_upper_case(1: "V") → "V" letter_in_upper_case(1: "W") → "W" letter_in_upper_case(1: "X") → "X" letter_in_upper_case(1: "Y") → "Y" letter_in_upper_case(1: "Z") → "Z"			\\
				<pre> 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; letter_in_lower_case = A; 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"; STRICT_BOUNDARIES = (BOUNDARY >> *(BOUNDARY)) (! (qi::alpha qi::char_("_"))); BOUNDARIES = (BOUNDARY >> *(BOUNDARY) NO_BOUNDARY); BOUNDARY = BOUNDARY__SPACE BOUNDARY__TAB BOUNDARY__VERTICAL_TAB BOUNDARY__FORM_FEED BOUNDARY__CARRIAGE_RETURN BOUNDARY__LINE_FEED BOUNDARY__NULL; BOUNDARY__SPACE = " "; BOUNDARY__TAB = "\t"; BOUNDARY__VERTICAL_TAB = "\v"; BOUNDARY__FORM_FEED = "\f"; BOUNDARY__CARRIAGE_RETURN = "\r"; BOUNDARY__LINE_FEED = "\n"; BOUNDARY__NULL = "\0"; NO_BOUNDARY = ""; #define WHITESPACES \ STRICT_BOUNDARIES, \ BOUNDARIES, \ BOUNDARY, \ BOUNDARY__SPACE, \ BOUNDARY__TAB, \ BOUNDARY__VERTICAL_TAB, \ BOUNDARY__FORM_FEED, \ BOUNDARY__CARRIAGE_RETURN, \ BOUNDARY__LINE_FEED, \ BOUNDARY__NULL, \ NO_BOUNDARY </pre>	<pre> /* Заглушки для невикористовуваних змінних з макросу */ letter_in_lower_case = A; 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"; 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; STRICT_BOUNDARIES = (BOUNDARY >> *(BOUNDARY)) (! (qi::alpha qi::char_("_"))); BOUNDARIES = (BOUNDARY >> *(BOUNDARY) NO_BOUNDARY); BOUNDARY = BOUNDARY__SPACE BOUNDARY__TAB BOUNDARY__VERTICAL_TAB BOUNDARY__FORM_FEED BOUNDARY__CARRIAGE_RETURN BOUNDARY__LINE_FEED BOUNDARY__NULL; BOUNDARY__SPACE = " "; BOUNDARY__TAB = "\t"; BOUNDARY__VERTICAL_TAB = "\v"; BOUNDARY__FORM_FEED = "\f"; BOUNDARY__CARRIAGE_RETURN = "\r"; BOUNDARY__LINE_FEED = "\n"; BOUNDARY__NULL = "\0"; NO_BOUNDARY = ""; #define WHITESPACES \ STRICT_BOUNDARIES, \ BOUNDARIES, \ BOUNDARY, \ BOUNDARY__SPACE, \ BOUNDARY__TAB, \ BOUNDARY__VERTICAL_TAB, \ BOUNDARY__FORM_FEED, \ </pre>	\\

