

				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 = "int32" >> STRICT_BOUNDARIES;		tokenINTEGER16 = "int32" >> STRICT_BOUNDARIES;	#define T_DATA_TYPE_0 "int32" #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 = "!" >> STRICT_BOUNDARIES;		tokenNOT = "!" >> STRICT_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 = "&" >> STRICT_BOUNDARIES;		tokenAND = "&" >> STRICT_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 = " " >> STRICT_BOUNDARIES;		tokenOR = " " >> STRICT_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_NOTEQUAL_0 "!=" #define T_NOTEQUAL_1 "" #define T_NOTEQUAL_2 "" #define T_NOTEQUAL_3 ""
				tokenLESS = "lt" >> BOUNDARIES;		tokenLESS = "lt" >> BOUNDARIES;	#define T_LESS_0 "lt" #define T_LESS_1 "" #define T_LESS_2 "" #define T_LESS_3 ""
				tokenGREATER = "gt" >> BOUNDARIES;		tokenGREATER = "gt" >> BOUNDARIES;	#define T_GREATER_0 "gt" #define T_GREATER_1 "" #define T_GREATER_2 "" #define T_GREATER_3 ""
				tokenPLUS = "add" >> BOUNDARIES;		tokenPLUS = "add" >> BOUNDARIES;	#define T_ADD_0 "add" #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 = "mul" >> BOUNDARIES;		tokenMUL = "mul" >> BOUNDARIES;	#define T_MUL_0 "mul" #define T_MUL_1 "" #define T_MUL_2 "" #define T_MUL_3 ""
				tokenDIV = "/" >> STRICT_BOUNDARIES;		tokenDIV = "/" >> STRICT_BOUNDARIES;	#define T_DIV_0 "/" #define T_DIV_1 "" #define T_DIV_2 "" #define T_DIV_3 ""
				tokenMOD = "%" >> STRICT_BOUNDARIES;		tokenMOD = "%" >> STRICT_BOUNDARIES;	#define T_MOD_0 "%" #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 ""
				tokenWHILE = "while" >> STRICT_BOUNDARIES;		tokenWHILE = "while" >> STRICT_BOUNDARIES;	#define T_WHILE_0 "while" #define T_WHILE_1 "" #define T_WHILE_2 "" #define T_WHILE_3 ""
				tokenCONTINUE = "continue" >> STRICT_BOUNDARIES;		tokenCONTINUE = "continue" >> STRICT_BOUNDARIES;	#define T_CONTINUE WHILE_0 "continue" #define T_CONTINUE WHILE_1 "" #define T_CONTINUE WHILE_2 ""

						#define T_CONTINUE_WHILE_3 ""
				tokenBREAK = "break" >> STRICT_BOUNDARIES;	tokenBREAK = "break" >> STRICT_BOUNDARIES;	#define T_EXIT_WHILE_0 "break" #define T_EXIT_WHILE_1 "" #define T_EXIT_WHILE_2 "" #define T_EXIT_WHILE_3 ""
				tokenEXIT = "exit" >> STRICT_BOUNDARIES;	tokenEXIT = "exit" >> STRICT_BOUNDARIES;	#define T_EXIT_0 "exit" #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 = "wwrite" >> 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 = "begin" >> STRICT_BOUNDARIES;	tokenBODY = "begin" >> STRICT_BOUNDARIES;	#define T_BODY_0 "begin" #define T_BODY_1 "" #define T_BODY_2 "" #define T_BODY_3 ""
				tokenDATA = "var" >> STRICT_BOUNDARIES;	tokenDATA = "var" >> STRICT_BOUNDARIES;	#define T_DATA_0 "var" #define T_DATA_1 "" #define T_DATA_2 "" #define T_DATA_3 ""
				tokenBEGIN = "begin" >> STRICT_BOUNDARIES;	tokenBEGIN = "begin" >> STRICT_BOUNDARIES;	#define T_BEGIN_0 "begin" #define T_BEGIN_1 "" #define T_BEGIN_2 "" #define T_BEGIN_3 ""
				tokenEND = "end" >> STRICT_BOUNDARIES;	tokenEND = "end" >> STRICT_BOUNDARIES;	#define T_END_0 "end" #define T_END_1 "" #define T_END_2 "" #define T_END_3 ""
						#define T_NULL_STATEMENT_0 "NULL" #define T_NULL_STATEMENT_1 "STATEMENT" #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 = "int32";	value_type = "int32";	value_type → "int32"	value_type(1:"int32") → "int32"	value_type = SAME_RULE(tokenINT32);	value_type = SAME_RULE(tokenINT32);	{ 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(1:"[") → "[" unsigned_value "]"	array_specify = "[" >> unsigned_value >> "]";	array_specify = "[" >> unsigned_value >> "]";	{ LA_IS, (""), { "array_specify", \\{ LA_IS, (""), 3, ("[", "unsigned_value ", "]") } \\} }\\
declaration_element = ident, [", unsigned_value , "]";	declaration_element = ident, [", unsigned_value , "]";	declaration_element → ident array_specify_optional;	declaration_element(1:"ident_terminal") → 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 ε;	array_specify_optional = array_specify ε;	array_specify_optional → array_specify array_specify_optional → ε	array_specify_optional(1:"[") → array_specify array_specify_optional(1: !"") → ε	array_specify_optional = array_specify "";	array_specify_optional = array_specify "";	{ LA_IS, (""), { "array_specify_optional", \\{ LA_IS, (""), 1, ("array_specify") } \\} }\\
other_declaration_ident = "", declaration_element;	other_declaration_ident = "", declaration_element;	other_declaration_ident → "", declaration_element	other_declaration_ident(1:",") → "", 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};	declaration → value_type declaration_element other_declaration_ident_iteration;	declaration(1:"int32") → 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 ε;	other_declaration_ident_iteration = other_declaration_ident, other_declaration_ident_iteration ε;	other_declaration_ident_iteration → other_declaration_ident other_declaration_ident_iteration false_cond_block_without_else_iteration(1: !"") → ε	other_declaration_ident_iteration(1: ",") → other_declaration_ident other_declaration_ident_iteration false_cond_block_without_else_iteration(1: !"") → ε	other_declaration_ident_iteration = other_declaration_ident >> other_declaration_ident_iteration "";	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") } \\} }\\
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(1:"!") → "!"	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(1:"!") → 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 = "&" "!" "==" "!=" "lt" "gt" "add" "-" "mul" "/" "%";	binary_operator = "&" "!" "==" "!=" "lt" "gt" "add" "-" "mul" "/" "%";	binary_operator → "&" binary_operator → "!" binary_operator → "==" binary_operator → "!=" binary_operator → "lt" binary_operator → "gt" binary_operator → "add" binary_operator → "<>" binary_operator → "mul" binary_operator → "/" binary_operator → "%"	binary_operator(1:&) → "&" binary_operator(1:!"") → "!" binary_operator(1: "==") → "==" binary_operator(1: "!=") → "!=" binary_operator(1: "lt") → "lt" binary_operator(1: "gt") → "gt" binary_operator(1: "add") → "add" binary_operator(1: "<>") → "<>" binary_operator(1: "mul") → "mul" binary_operator(1: "/") → "/" binary_operator(1: "%") → "%"	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) } \\} }\\
binary_operator = "&" "!" "==" "!=" "lt" "gt" "add" "-" "mul" "/" "%";	binary_operator = "&" "!" "==" "!=" "lt" "gt" "add" "-" "mul" "/" "%";			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_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) } \\} }\\

					body_for_false_optional;	"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 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(1: "else"; 2: "if") → false_cond_block_without_else false_cond_block_without_else_iteration false_cond_block_without_else_iteration(1: "else"; 2: !"if") → ε false_cond_block_without_else_iteration(1: !"else") → ε		false_cond_block_without_else_iteration = false_cond_block_without_else >> false_cond_block_without_else_iteration "";	{LA_IS, {T_ELSE_IF_0}, { "false_cond_block_without_else_iteration",\} (LA_IS, {T_ELSE_IF_1}, 2, { "false_cond_block_without_else", "false_cond_block_without_else_iteration" })\} (LA_NOT, {T_ELSE_IF_0}, {""})\} }}\} (LA_NOT, {T_ELSE_IF_1}, 0, {""})\} }}\}
	body_for_false_optional = body_for_false ε;	body_for_false_optional → body_for_false body_for_false_optional → ε	body_for_false_optional(1: "FALSE") → body_for_false body_for_false_optional(1: !"FALSE") → ε		body_for_false_optional = body_for_false "";	{LA_IS, {T_ELSE_BLOCK_0}, { "body_for_false_optional",\} (LA_IS, {"")}, 1, {"body_for_false"})\} }}\} (LA_NOT, {T_ELSE_BLOCK_0}, { "body_for_false_optional",\} (LA_IS, {"")}, 0, {""})\} }}\}
	continue_while = "continue";	continue_while → "continue"	continue_while(1: "continue") → "continue"		continue_while = SAME_RULE(tokenCONTINUE);	{LA_IS, {T_CONTINUE_WHILE_0}, {"continue_while",\} (LA_IS, {"")}, 1, {T_CONTINUE_WHILE_0})\} }}\}
	break_while = "break";	break_while → "break"	break_while(1: "break") → "break"		break_while = SAME_RULE(tokenBREAK);	{LA_IS, {T_EXIT_WHILE_0}, {"break_while",\} (LA_IS, {"")}, 1, {T_EXIT_WHILE_0})\} }}\}
statement_in_while_and_if_body = statement "continue" "break";	statement_in_while_and_if_body = statement continue_while break_while;	statement_in_while_and_if_body → statement statement_in_while_and_if_body → statement_in_while_and_if_body break_while	statement_in_while_and_if_body(1: "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", "!", "0", "1", "2", "3", "4", "5", "6", "7", "8", "9", "add", "!", "if", "while", "read", "write", ".") → statement statement_in_while_and_if_body(1: "continue") → continue_while statement_in_while_and_if_body(1: "break") → break_while		statement_in_while_and_if_body = statement continue_while break_while;	{LA_IS, {"ident_terminal", "!", T_NOT_0, "unsigned_value_terminal", T_ADD_0, T_SUB_0, T_IF_0, T_WHILE_0, T_INPUT_0, T_OUTPUT_0, T_SEMICOLON_0}, { "statement_in_while_and_if_body",\} (LA_IS, {"")}, 1, {"statement"})\} }}\} (LA_IS, {T_CONTINUE_WHILE_0}, { "statement_in_while_and_if_body",\} (LA_IS, {"")}, 1, {"continue_while"})\} }}\} (LA_IS, {T_EXIT_WHILE_0}, { "statement_in_while_and_if_body",\} (LA_IS, {"")}, 1, {"break_while"})\} }}\}
block_statements_in_while_and_if_body = ("", (statement_in_while_and_if_body), "");	block_statements_in_while_and_if_body = "", statement_in_while_and_if_body_iteration, ");	block_statements_in_while_and_if_body(1: "") → "(" statement_in_while_and_if_body_iteration ")"		block_statements_in_while_and_if_body = tokenBEGINBLOCK -> *statement_in_while_and_if_body >> tokenENDBLOCK;	block_statements_in_while_and_if_body = tokenBEGINBLOCK >> statement_in_while_and_if_body_iteration >> tokenENDBLOCK;	{LA_IS, {T_BEGIN_BLOCK_0}, { "block_statements_in_while_and_if_body",\} (LA_IS, {"")}, 3, {T_BEGIN_BLOCK_0, "statement_in_while_and_if_body_iteration", T_END_BLOCK_0})\} }}\}
	statement_in_while_and_if_body_iteration = statement_in_while_and_if_body, statement_in_while_and_if_body_iteration ε;	statement_in_while_and_if_body_iteration → statement_in_while_and_if_body statement_in_while_and_if_body_iteration statement_in_while_and_if_body_iteration → ε	statement_in_while_and_if_body_iteration(1: "A", "B", "C", "D", "E", "F", "G", "H", "I", "K", "L", "M", "N", "O", "P", "Q", "R", "S", "T", "U", "V", "W", "X", "Y", "Z", "!", "0", "1", "2", "3", "4", "5", "6", "7", "8", "9", "add", "!", "if", "while", "read", "write", ".", "continue", "break") → statement_in_while_and_if_body_iteration statement_in_while_and_if_body_iteration(1: !"A", !"B", !"C", !"D", !"E", !"F", !"G", !"H", !"I", !"K", !"L", !"M", !"N", !"O", !"P", !"Q", !"R", !"S", !"T", !"U", !"V", !"W", !"X", !"Y", !"Z", !"1", !"0", !"1", !"2", !"3", !"4", !"5", !"6", !"7", !"8", !"9", !"add", !"!", !"if", !"while", !"read", !"write", !"!", !"continue", !"break") → ε		statement_in_while_and_if_body_iteration = statement_in_while_and_if_body >> statement_in_while_and_if_body_iteration "", T_EXIT_WHILE_0, { "statement_in_while_and_if_body_iteration",\} (LA_IS, {"")}, 2, {"statement_in_while_and_if_body_iteration", "statement_in_while_and_if_body_iteration"})\} }}\} (LA_NOT, {"ident_terminal", "!", T_NOT_0, "unsigned_value_terminal", T_ADD_0, T_SUB_0, T_IF_0, T_WHILE_0, T_INPUT_0, T_OUTPUT_0, T_EXIT_WHILE_0, { "statement_in_while_and_if_body_iteration",\} (LA_IS, {"")}, 0, {""})\} }}\}	
while_cycle_head_expression = expression;	while_cycle_head_expression = expression;	while_cycle_head_expression → expression	while_cycle_head_expression(1: "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", "!", "0", "1", "2", "3", "4", "5", "6", "7", "8", "9", "add", "!", "if", "while", "read", "write", ".") → expression		while_cycle_head_expression = SAME_RULE(expression);	{LA_IS, {"!", T_NOT_0, T_ADD_0, T_SUB_0, "ident_terminal", "unsigned_value_terminal", T_IF_0}, { "while_cycle_head_expression",\} (LA_IS, {"")}, 1, {"expression"})\} }}\}
while_cycle = "while", while_cycle_head_expression, block_statements_in_while_and_if_body;	while_cycle → "while" while_cycle_head_expression block_statements_in_while_and_if_body	while_cycle(1: "while") → "while" while_cycle_head_expression block_statements_in_while_and_if_body		while_cycle = tokenWHILE >> while_cycle_head_expression >> block_statements_in_while_and_if_body;	while_cycle = tokenWHILE, \/ (LA_IS, {"")}, 3, {T_WHILE_0, "while_cycle_head_expression", "block_statements_in_while_and_if_body"})\} }}\}	
	statements_or_block_statements = statement_iteration block_statements;	statements_or_block_statements → statement_iteration statements_or_block_statements → block_statements	statements_or_block_statements(1: "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", "!", "0", "1", "2", "3", "4", "5", "6", "7", "8", "9", "add", "!", "if", "while", "read", "write", ".") → statement_iteration statements_or_block_statements(1: "") → block_statements		statements_or_block_statements = statement_iteration block_statements;	{LA_IS, {"ident_terminal", "!", T_NOT_0, "unsigned_value_terminal", T_ADD_0, T_SUB_0, T_IF_0, T_WHILE_0, T_INPUT_0, T_OUTPUT_0, T_SEMICOLON_0}, { "statements_or_block_statements",\} (LA_IS, {"")}, 1, {"statement_iteration"})\} }}\} (LA_IS, {T_BEGIN_BLOCK_0}, { "statements_or_block_statements",\} (LA_IS, {"")}, 1, {"block_statements"})\} }}\}
input_rule = "read", argument_for_input;	input_rule → "read" argument_for_input	input_rule(1: "read") → "read" argument_for_input	input_rule = tokenGET >> (ident >> -index_action tokenGROUPEXPRESSIONBEGIN >> ident >> -index_action >> tokenGROUPEXPRESSIONEND);	input_rule = tokenGET >> argument_for_input;	{LA_IS, {T_INPUT_0}, {"input_rule",\} (LA_IS, {"")}, 2, {T_INPUT_0, "argument_for_input"})\} }}\}	
input_rule = "read", (ident, [index_action] "!", ident, [index_action], "");	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_rule → "write" expression	output_rule(1: "write") → "write" expression		output_rule = tokenPUT >> expression;	{LA_IS, {T_OUTPUT_0}, {"output_rule",\} (LA_IS, {"")}, 2, {T_OUTPUT_0, "expression"})\} }}\}	
output_rule = "write", expression;	statement = expression_or_cond_block_with_optional_assign while_cycle input_rule output_rule ";"	statement → expression_or_cond_block_with_optional_assign statement → while_cycle statement → input_rule statement → output_rule statement → ";"	statement(1: "A", "B", "C", "D", "E", "F", "G", "H", "I", "K", "L", "M", "N", "O", "P", "Q", "R", "S", "T", "U", "V", "W", "X", "Y", "Z", "!", "0") → expression_or_cond_block_with_optional_assignstatement(1: "!", "!", "add", "!", "0", "1", "2", "3", "4", "5", "6", "7", "8", "9", "if") → expression_or_cond_block_with_optional_assign statement(1: "while") → while_cycle statement(1: "read") → input_rule		statement = expression_or_cond_block_with_optional_assign while_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_WHILE_0}, {"statement",\} (LA_IS, {"")}, 1, {"while_cycle"})\} }}\}
statement = expression_or_cond_block_with_optional_assign while_cycle input_rule output_rule ";"						

				<pre> tokenLESS tokenGREATER tokenPLUS tokenMINUS tokenMUL tokenDIV tokenMOD tokenGROUPEXPRESSIONBEGIN tokenGROUPEXPRESSIONEND tokenLASSIGN tokenLSE tokenIF tokenWHILE tokenCONTINUE tokenBREAK tokenEXIT tokenGET tokenPUT tokenNAME tokenBODY tokenDATA tokenBEGIN tokenEND tokenBEGINBLOCK tokenENDBLOCK tokenLEFTSQUAREBRACKETS tokenRIGHTSQUAREBRACKETS tokenSEMICOLON) >> letter_in_upper_case >> letter_in_upper_case >> STRICT_BOUNDARIES; </pre>	<pre> tokenLESS tokenGREATER tokenPLUS tokenMINUS tokenMUL tokenDIV tokenMOD tokenGROUPEXPRESSIONBEGIN tokenGROUPEXPRESSIONEND tokenLASSIGN tokenELSE tokenIF tokenWHILE tokenCONTINUE tokenBREAK tokenEXIT tokenGET tokenPUT tokenNAME tokenBODY tokenDATA tokenBEGIN tokenEND tokenBEGINBLOCK tokenENDBLOCK tokenLEFTSQUAREBRACKETS tokenRIGHTSQUAREBRACKETS tokenSEMICOLON) >> letter_in_upper_case >> letter_in_upper_case >> STRICT_BOUNDARIES; </pre>	\
	<pre> 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"; </pre>	<pre> 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"; </pre>	<pre> 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" </pre>	<pre> 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; </pre>	<pre> 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; </pre>	\
	<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"; </pre>	<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"; </pre>	<pre> 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>	<pre> 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; </pre>	<pre> 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; </pre>	\
	<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"; </pre>			<pre> 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, </pre>	<pre> 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, </pre>	\

				<pre>BOUNDARY_SPACE,\nBOUNDARY_TAB,\nBOUNDARY_VERTICAL_TAB,\nBOUNDARY_FORM_FEED,\nBOUNDARY_CARRIAGE_RETURN,\nBOUNDARY_LINE_FEED,\nBOUNDARY_NULL,\nNO_BOUNDARY</pre>	<pre>BOUNDARY,\nBOUNDARY_SPACE,\nBOUNDARY_TAB,\nBOUNDARY_VERTICAL_TAB,\nBOUNDARY_FORM_FEED,\nBOUNDARY_CARRIAGE_RETURN,\nBOUNDARY_LINE_FEED,\nBOUNDARY_NULL,\nNO_BOUNDARY</pre>	
					<pre>\n\n{ LA_IS, { T_NAME_0 }, { "program____part1", {\n { LA_IS, {""}, 7, { T_NAME_0, "program_name",\n T_SEMICOLON_0, T_BODY_0, T_DATA_0,\n "declaration_optional", T_SEMICOLON_0 } }\n}}}\n}\n}\n"program_rule"</pre>	