РБНФ	**Код для перевірки РБНФ**
labeled_point = ident , ":";	labeled_point = ident >> tokenCOLON;
goto_label = "GOTO" , ident;	goto_label = tokenGOTO >> ident;
program_name = ident;	program_name = SAME_RULE(ident);
value_type = "Int_4";	value_type = SAME_RULE(tokenINTEGER16);
declaration_element = ident , ["[", unsigned_value , "]"];	declaration_element = ident >> -(tokenLEFTSQUAREBRACKETS >> unsigned_value >> tokenRIGHTSQUAREBRACKETS);
other_declaration_ident = "," , declaration_element;	other_declaration_ident = tokenCOMMA >> declaration_element;
declaration = value_type , declaration_element , {other_declaration_ident};	declaration = value_type >> declaration_element >> *other_declaration_ident;
index_action = "[" , expression , "]";	index_action = tokenLEFTSQUAREBRACKETS >> expression >> tokenRIGHTSQUAREBRACKETS;
unary_operator = "Not";	unary_operator = SAME_RULE(tokenNOT);
unary_operation = unary_operator , expression;	unary_operation = unary_operator >> expression;
binary_operator = "And" | "Or" | "Eg" | "Ne" | "Ge" | "Le" | "++" | "Sub" | "**" | "Div" | "Mod";	binary_operator = tokenAND | tokenOR | tokenEQUAL | tokenNOTEQUAL | tokenLESSOREQUAL | tokenGREATEROREQUAL | tokenPLUS | tokenMINUS | tokenMUL | tokenDIV | tokenMOD;
binary_action = binary_operator , expression;	binary_action = binary_operator >> expression;
left_expression = group_expression | unary_operation | ident , [index_action] | value | cond_block__with_optionally_return_value;	left_expression = group_expression | unary_operation | ident >> -index_action | value | cond_block__with_optionally_return_value;
expression = left_expression , {binary_action};	expression = left_expression >> *binary_action;
group_expression = "(" , expression , ")";	group_expression = tokenGROUPEXPRESSIONBEGIN >> expression >> tokenGROUPEXPRESSIONEND;
bind_expression = expression , "->" , ident , [index_action];	bind_left_to_right = expression >> tokenLRBIND >> ident >> -index_action;
if_expression = expression;	if_expression = SAME_RULE(expression);
body_for_true__with_optionally_return_value = block_statements__with_optionally_return_value;	body_for_true__with_optionally_return_value = SAME_RULE(block_statements__with_optionally_return_value);
false_cond_block_without_else__with_optionally_return_value = "ELSE" , "IF" , if_expression , body_for_true__with_optionally_return_value;	false_cond_block_without_else__with_optionally_return_value = tokenELSE >> tokenIF >> if_expression >> body_for_true__with_optionally_return_value;
body_for_false__with_optionally_return_value = "ELSE" , block_statements__with_optionally_return_value;	body_for_false__with_optionally_return_value = tokenELSE >> block_statements__with_optionally_return_value;

cond_block__with_optionally_return_value = "IF" , if_expression , body_for_true__with_optionally_return_value , {false_cond_block_without_else__with_optionally_return_value} , [body_for_false__with_optionally_return_value];	cond_block__with_optionally_return_value = tokenIF >> if_expression >> body_for_true__with_optionally_return_value >> *false_cond_block_without_else__with_optionally_return_value >> -body_for_false__with_optionally_return_value;
cond_block__with_optionally_return_value_and_optionally_bind = cond_block__with_optionally_return_value , [tokenLRBIND , ident , [index_action]];	cond_block__with_optionally_return_value_and_optionally_bind = cond_block__with_optionally_return_value >> -(tokenLRBIND >> ident >> -index_action);
input = "Scan" , (ident , [index_action] | "(" , ident , [index_action] , ")");	input = tokenGET >> (ident >> -index_action | tokenGROUPEXPRESSIONBEGIN >> ident >> -index_action >> tokenGROUPEXPRESSIONEND);
output = "Print" , expression;	output = tokenPUT >> expression;
statement = bind_left_to_right | cond_block__with_optionally_return_value_and_optionally_bind | labeled_point | goto_label | input | output | ";";	statement = bind_left_to_right | cond_block__with_optionally_return_value_and_optionally_bind | labeled_point | goto_label | input | output | tokenSEMICOLON;
block_statements = "{" , {statement} , "}";	block_statements = tokenBEGINBLOCK >> *statement >> tokenENDBLOCK;
block_statements__with_optionally_return_value = "{" , {statement} , [expression] , "}";	block_statements__with_optionally_return_value = tokenBEGINBLOCK >> *statement >> -expression >> tokenENDBLOCK;
program = "Program" , program_name , ";" , "Start" , "Var", [declaration] , ";" , {statement} , "Finish";	program = BOUNDARIES >> tokenNAME >> program_name >> tokenSEMICOLON >> tokenBODY >> tokenDATA >> (-declaration) >> tokenSEMICOLON >> *statement >> tokenEND;
digit = "0" | "1" | "2" | "3" | "4" | "5" | "6" | "7" | "8" | "9";	digit = digit_0 | digit_1 | digit_2 | digit_3 | digit_4 | digit_5 | digit_6 | digit_7 | digit_8 | digit_9;
non_zero_digit = "1" | "2" | "3" | "4" | "5" | "6" | "7" | "8" | "9";	non_zero_digit = digit_1 | digit_2 | digit_3 | digit_4 | digit_5 | digit_6 | digit_7 | digit_8 | digit_9;
unsigned_value = (non_zero_digit , {digit}) | "0";	unsigned_value = ((non_zero_digit >> *digit) | digit_0) >> BOUNDARIES;
value = [sign] , unsigned_value;	value = -sign >> unsigned_value >> BOUNDARIES;
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_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 | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z;
ident = "_" , letter_in_upper_case , letter_in_upper_case ,	`ident = tokenUNDERSCORE >> digit >> 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;	STRICT_BOUNDARIES;
ident = "_" , digit , letter_in_upper_case , letter_in_upper_case;	unary_minus = qi::char_('-') >> (qi::char_('-'));
unary_minus = "--";	digit_0 = '0';
	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';
	tokenCOLON = ":" >> BOUNDARIES;
	tokenINTEGER2 = "Int_4" >> STRICT_BOUNDARIES;
	tokenCOMMA = "," >> BOUNDARIES;
	tokenNOT = "Not" >> BOUNDARIES;
	tokenAND = "And" >> BOUNDARIES;
	tokenOR = "Or" >> BOUNDARIES;
	tokenEQUAL = "Eg" >> BOUNDARIES;
	tokenNOTEQUAL = "Ne" >> BOUNDARIES;
	tokenLESS = "Ge" >> BOUNDARIES;
	tokenGREATER = "Le" >> BOUNDARIES;
	tokenPLUS = "++" >> BOUNDARIES;
	tokenMINUS = "Sub" >> BOUNDARIES;
	tokenMUL = "**" >> BOUNDARIES;
	tokenDIV = "Div" >> STRICT_BOUNDARIES;
	tokenMOD = "Mod" >> STRICT_BOUNDARIES;
	tokenGROUPEXPRESSIONBEGIN = "(" >> BOUNDARIES;
	tokenGROUPEXPRESSIONEND = ")" >> BOUNDARIES;
	tokenBIND = "->" >> BOUNDARIES;

	tokenELSE = "Else" >> STRICT_BOUNDARIES;
	tokenIF = "If" >> STRICT_BOUNDARIES;
	tokenDO = "Do" >> STRICT_BOUNDARIES;
	tokenGOTO = "Goto" >> STRICT_BOUNDARIES;
	tokenREAD = "Scan" >> STRICT_BOUNDARIES;
	tokenWRITE = "Write" >> STRICT_BOUNDARIES;
	tokenPROGRAM = "#Program" >> STRICT_BOUNDARIES;
	tokenVARIABLE = "Variable" >> STRICT_BOUNDARIES;
	tokenSTART = "Start" >> STRICT_BOUNDARIES;
	tokenSTOP = "Stop" >> STRICT_BOUNDARIES;
	tokenBEGINBLOCK = "{" >> BOUNDARIES;
	tokenENDBLOCK = "}" >> BOUNDARIES;
	tokenLEFTSQUAREBRACKETS = "[" >> BOUNDARIES;
	tokenRIGHTSQUAREBRACKETS = "]" >> BOUNDARIES;
	tokenSEMICOLON = ";" >> BOUNDARIES;
	STRICT_BOUNDARIES = (BOUNDARY >> *(BOUNDARY)) | (!(qi::alpha | qi::char_("_")));
	BOUNDARIES = (BOUNDARY >> *(BOUNDARY) | NO_BOUNDARY);
	BOUNDARY = BOUNDARY_SPACE | BOUNDARY_TAB | BOUNDARY_CARRIAGE_RETURN | BOUNDARY_LINE_FEED | BOUNDARY_NULL;
	BOUNDARY_SPACE = " ";
	BOUNDARY_TAB = "\t";
	BOUNDARY_CARRIAGE_RETURN = "\r";
	BOUNDARY_LINE_FEED = "\n";
	BOUNDARY_NULL = "\0";
	NO_BOUNDARY = "";
	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";