<program> ::= main <block>;

<type name> ::= <type> {<name>, } ;

<const type name> ::= const <type name>;

<function> ::= def <name> <parameters> <block>;

<parameters> ::= <type> <name> {, <type> <name>};

<block> ::= ’{‘ { [<operator> ';' | <type> <name> ';'] } ‘}’;

<in> ::= cin(<name>);

<out> ::= cout (<name> | <string const> );

<type> ::= <num type> | <array type> | <char like type>;

<num type> ::= <integer type> | <float>;

<integer type> ::= int | int64;

<integer const> ::= [0..9]<integer const>;

<num const> ::= <real const> | <integer const>

<string const> ::= '\"'{ <symbol> }'\"';

<float> ::= float;

<array type> ::= <dynamic array> | <string>;

<dynamic array> ::= array '<' <type> '>'

<string> ::= <float string>;

<float string> ::= string;

<bin op> ::= <math bin op> | <logic bin op> | <byte bin op>;

<math bin op> ::= + | - | / | \* | % | ^;

<math prior 1> ::= ^ | %;

<math prior 2> ::= \* | /;

<math prior 3> ::= - | +;

<logic bin op> ::= and | or;

<logic bin prior 1> ::= and

<logic bin prior 2> ::= or;

<byte bin op> ::= & | |;

<increment> ::= ++ | --;

<logical> ::= !;

<if op> ::= if (<exp>) <block> | if (<exp>) <block> <else op>;

<else op> ::= else <block>;

<while op> ::= while (<exp>) <block>;

<for op> ::= for (<exp> | <type> <name> <description> ';' <exp> ';' <exp>) <block>;