<program>::= prog <name> head{¶<decl. list>} body{¶<oper. list>}

<name> ::=<id>

<decl. list>::=<decl>¶|<decl. list><decl>¶

<decl>::=<type> <id list>

<type>::=int

<id list>::=<id>|<id list>,<id>

<oper. list>::=<oper>¶|<oper. list><oper>¶

<oper>::=<assignment>|<input>|<output>|<loop>|<condition>

<assignment>::=<id>=<expr>

<input>::=read(<id>)

<output>::=print(<id>)

<loop>::=for(<id>=<expr>;<logic.expr>;<id>=<expr>)¶<oper>

<condition>::= if(<logic. expr>){¶<oper. list>}

<logic. expr>::=<LT>|<logic. Expr> or <LT>

<LT>::=<LM>|<LT> and <LM>

<LM>::=<ratio>|not <LM>|[LT]

<ratio>::=<expr.><connotation><expr.>

<connotation>::= !=|<=|>=|>|<|==

<expr>::=<term>|<expr>+<term>|<expr>-<term>

<term>::=<factor>|<term>\*<factor>|<term>/<factor>

<factor>::=<id>|<const>|(<expr>)

<id>::=<letter>|<id><letter>|<id><number>

<const>::=<fixed-point number>|<sign><fixed-point number>

<fixed-point number>::=<unsigned int>|.<unsigned int>|<unsigned int>.|<unsigned int>.<unsigned int>

<unsigned int>::=<unsigned int><number>|<number>

<sign>=-

<letter>::=a|b|.|z

<number>::=0|1|.|9