**ГРАММАТИКА**

GOAL → SECTION

SECTION → DECLARATION IMPLEMENTATION

DECLARATION → var\_term VAR\_DECL\_INSTR ; VAR\_DECLARATION

// каждое объявление переменной/ных

VAR\_DECLARATION → VAR\_DECL\_INSTR ; VAR\_DECLARATION

→ E

// очередная переменная/ список переменных одного типа

VAR\_DECL\_INSTR → id ID\_DECL : type\_term

ID\_DECL → , id ID\_DECL

→ E

IMPLEMENTATION → begin\_term LIST\_INSTRUCTION end\_term .

LIST\_INSTRUCTION → ASSIGNMENT\_INSTRUCTION ; LIST\_INSTRUCTION

→ READ\_INSTR ; LIST\_INSTRUCTION

→ WRITE\_INSTR ; LIST\_INSTRUCTION

→ BRANCH\_INSTR ; LIST\_INSTRUCTION

→ E

ASSIGNMENT\_INSTRUCTION → id := EXPR

EXPR → TERM EXPR1

EXPR1 → + TERM EXPR1

→ - TERM EXPR1

→ E

TERM → FACTOR TERM1

TERM1 → \* FACTOR TERM1

→ / FACTOR TERM1

→ E

FACTOR → ( EXPR )

→ round\_term ( EXPR )

→ num

→ float(realnum)

→ id

READ\_INSTR → read\_term ( id )

WRITE\_INSTR → write\_term ( id )

→ write\_term ( “ string\_term “ )

→ write\_term ( “ id “ )

BRANCH\_INSTR → if\_term CONDITION CONSEQUENCE

CONDITION → BOOL\_EXPR CONDITION1

→ EXPR BOOL\_OP EXPR

CONDITION1 → or\_term BOOL\_EXPR CONDITION1

→ E

BOOL\_EXPR → BOOL\_TERM BOOL\_EXPR1

BOOL\_EXPR1 → and\_term BOOL\_TERM BOOL\_EXPR1

→ E

BOOL\_TERM → ( CONDITION )

→ ( EXPR BOOL\_OP EXPR )

BOOL\_OP → =

→ <

→ >

CONSEQUENCE → then\_term CONSEQUENCE1 ELSE

CONSEQUENCE1 → ASSIGNMENT\_INSTRUCTION

→ READ\_INSTR

→ WRITE\_INSTR

→ BRANCH\_INSTR

→ begin LIST\_INSTRUCTION end

ELSE → else\_term CONSEQUENCE1

→ E