```
topRule = "PROGRAM", programName, varsBlock, ";", "START", statement, "FINISH";
programName = "Low8", identifier;
varsBlok = "Low8", identifier, { commaAndIdentifier };
identifier = low_letter, low_letter, low_letter, low_letter, low_letter, low_letter, low_letter;
commaAndIdentifier = ",", identifier;
statement = write | read | assignment | ifStatement | goto statement | goto declaration |
forToOrDownToDoRule | while | repeatUntil;
read = "READ", identifier;
write = "WRITE", equation;
assignment = identifier, "<==", equation;</pre>
ifStatement = "IF", (equation), statement, [ elseStatement ];
elseStatement = "ELSE", statement;
goto_statement = "GOTO", identifier;
goto_declaration = identifier,":";
forToOrDownToDoRule = "FOR", assignment, ("TO" | "DOWNTO"), equation, "DO", statement;
while = "WHILE", (equation), "DO", while_statement, "WEND";
while_statement = write | read | assignment | whileifStatement | goto_statement | goto_declaration |
whileforToOrDownToDoRule | while | repeatUntil | continuewhile | exitwhile;
exitwhile = "WHILEEND";
continuewhile = "WHILECONTINUE";
whileifstatement = "IF", (equation), while_statement, [elseStatement];
whileforToOrDownToDoRule = "FOR", assignment, ("TO" | "DOWNTO"), equation, "DO", while_statement;
repeatUntil = "REPEAT",(statement), "UNTIL", equation;
equation = signedNumber | identifier | notRule, { operationAndIdentOrNumber | equation };
notRule = notOperation, signedNumber | identifier | equation;
operationAndIdentOrNumber = mult | arithmetic | logic | compare | signedNumber | identifier | equation;
arithmetic = "ADD" | "SUB";
mult = "MUL" | "DIV" | "MOD";
logic = "&" | "|";
notOperation = "!";
compare = "=" | "<>" | "LE" | "GE";
comment = CommentStatement, { low_letter | up_letter | digit };
CommentStatement = "$$_";
signedNumber = [ sign ], digit, { digit };
```

sign = "+" | "-";

low\_letter = "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";

digit = "0" | "1" | "2" | "3" | "4" | "5" | "6" | "7" | "8" | "9";