EBNF Description

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```
program := \{statement\}.
 statement := formula\ TERM.
   TERM := ";".
  formula := formula 1 ELSE formula | formula 3.
    ELSE := "ELSE".
 formula1 := formula2 THEN formula.
   THEN := "THEN".
 formula2 := IF formula.
        IF := "IF".
 formula3 := formula4 IMPLIES formula3 | formula4.
IMPLIES := "IMPLIES".
 formula4 := formula4 \ AND \ formula5
               formula4 OR formula5
               formula4 XOR formula5
               formula 4\ EQUALS\ formula 5\ |
               formula5.
     AND := "AND".
       OR :=  "OR".
      XOR := "XOR".
 EQUALS := "EQUALS".
 formula5 := NOT formula5 \mid formula6.
 formula6 := LPAREN formula RPAREN | CONST | ID.
LPAREN := "(" .
RPAREN := ")".
      NOT := "NOT".
  CONST := "TRUE" | "FALSE".
        ID := Aplha \{Alpha\}.
     Alpha := "A" \mid "B" \mid "C" \mid "D" \mid "E" \mid "F" \mid "G" \mid "H" \mid "I" \mid "J" \mid "K" \mid "L" \mid "M" \mid "N" \mid "O" \mid
               "P" \mid "Q" \mid "R" \mid "S" \mid "T" \mid "U" \mid "V" \mid "W" \mid "X" \mid "Y" \mid "Z" \mid "a" \mid "b" \mid "c" \mid "d" \mid
               "e" \mid "f" \mid "g" \mid "h" \mid "i" \mid "j" \mid "k" \mid "l" \mid "m" \mid "n" \mid "o" \mid "p" \mid "q" \mid "r" \mid "s" \mid
               "t" | "u" | "v" | "w" | "x" | "y" | "z".
```