```
program: = "program" identifier ";" { variables | constants | procedure } block "."
variables:= "var" identifier [ ":=" number ] { "," identifier [ ":=" number ] } ";"
constants:= "const" identifier ":=" number { "," identifier ":=" number } ";"
procedure := "procedure" identifier "(" { "param" ( ( ["out"] identifier ) | number ) } ")" [ variables ] block ";"
block:= "begin" statement { statement } "end"
statement:= set_statement | if_statement | while_statement | block ";" | procedure_statement
set_statement := identifier ":=" expression ";"
while_statement := "while" "(" condition ")" block ";"
if_statement := "if" "(" condition ")" block ";" [ "else" block ";" ]
procedure_statement := "run" identifier "(" { ( ["out"] identifier ) | number ) } ")" ";"
condition:= expression ( "==" | "!=" | "<" | ">" ) expression
expression:= [ "+" | "-" ] term { ( "+" | "-" ) term }
<u>term</u>:= <u>factor</u> { ("*" | "/") <u>factor</u> }
factor:= identifier | number | "(" expression ")"
print:= ("print" | "println") "(" ( expression | ( """ string """ ) { ":" ( expression | (""" string """ ) } ";"
<u>string</u>:= [^"]*
identifier:= [a-zA-z]{1}[0-9a-zA-z_]{0, 31}
\underline{\mathsf{number}} := \mathsf{d+}(\mathsf{d+})?
```