Mini-language specification

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Sintactical rules:
program ::= "GO" {declList | stmtList} "STOP"
declList ::= declaration | declaration declList
declaration ::= variableDeclaration | constDeclaration
variableDeclaration ::= "var" IDENTIFIER "@" type ["=" expression] ";"
constDeclaration ::= "let" IDENTIFIER "@" type "=" expression ";"
type1 ::= "Bool" | "Int" | "Char" | "String"
arrayDecl ::= "[" type1 "]"
type ::= type1|arrayDecl
stmtList ::= stmt | stmt stmtList
stmt ::= simplStmt | structStmt
simplStmt ::= assignStmt | ioStmt
assignStmt ::= IDENTIFIER "=" expression ";"
expression ::= expression "+" term | expression "-" term | term | BOOLEAN
term ::= term "*" factor | term "/" factor | term "%" factor | factor
factor ::= "(" expression ")" | IDENTIFIER | INTEGER
ioStmt ::= "read" "(" IDENTIFIER ")" ";" | "print" "(" stringExp ")" ";"
stringExp ::= STRING | IDENTIFIER
structStmt ::= ifStmt | whileStmt
ifStmt ::= "if" condition "{" stmtList "}" {elifStmt} [elseStmt]
elseStmt ::= "else" "{" stmtList "}"
elifStmt ::= "elif" condition "{" stmtList "}"
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whileStmt ::= "loop" condition "{" stmtList "}"

condition ::= expression RELATION expression

RELATION ::= "<" | "<=" | "=" | ">=" | ">" | "!="