program:= "prog("decllist""){"cmpstmt"}"

decllist:=declaration|declaration "," decllist

forstmt:= "for(" declaration ":" array"){"stmt"}"

declaration:= type IDENTIFIER

type1:="bool" |"char"|"int"|"float"

arraydecl:="array["nr"]:"type1

type:=type1|arraydecl

cmpdstmt:="{"stmtlist"}"

stmt:=simplstmt|structstmt

simplstmt:=assignstmt | iostmt

assignstmt:=IDENTIFIER " " expression

expression:=expression "+" term| term

term:=term "\*" factor|factor

factor:="("expression")" |IDENTIFIERR

iostmt:=( "read" | "write" ) "("IDENTIFIER")"

structstmt:=cmpdstmt | ifstmt |whilestmt

whilestmt:= "while" condition"{" stmt "}"

condition:= expression RELATION expression

RELATION:= SIMPLERELATION | "!=" SIMPLERELATION

SIMPLERELATION:= "<" |">"| "=" | "<=" | ">="