## MicroJava - Grammatik

```
Program
             = "program" ident { ConstDecl | VarDecl | ClassDecl }
               "{" {MethodDecl} "}".
             = "final" Type ident "=" ( number | charConst ) ";".
ConstDec1
             = Type ident { "," ident } ";".
VarDecl
             = "class" ident "{" { VarDecl } "}".
ClassDecl
             = ( Type | "void" ) ident "(" [ FormPars ] ")"
MethodDecl
               { VarDecl } Block.
             = Type ident { "," Type ident }.
FormPars
             = ident [ "[" "]" ].
Type
Block
             = "{" { Statement } "}".
             = Designator ( Assignop Expr | ActPars | "++" | "--" ) ";"
Statement
               "if" "(" Condition ")" Statement [ "else" Statement ]
               "while" "(" Condition ")" Statement
               "break" ":"
             "continue" ";"
             | "return" [ Expr ] ";"
             "read" "(" Designator ")" ";"
             | "print" "(" Expr [ "," number ] ")" ";"
              | Block
             | ";".
             Assignop
ActPars
             = "(" [ Expr { "," Expr } ] ")".
             = CondTerm { "||" CondTerm }.
Condition
             = CondFact { "&&" CondFact }.
CondTerm
CondFact
             = Expr Relop Expr.
             = "==" | "!=" | ">" | ">=" | "<" | "<=".
Relop
             = [ "-" ] Term { Addop Term }.
Expr
Term
             = Factor { Mulop Factor }.
Factor
             = Designator [ ActPars ]
              number
             charConst
               "new" ident [ "[" Expr "]" ]
             | "(" Expr ")".
             = ident { "." ident | "[" Expr "]" }.
Designator
             = "+" "-".
Addop
             = "*" | "/" | "%".
Mulop
```