BNF for MiniJava NON-TERMINALS

```
Goal ::= <u>MinClass</u> ( <u>ClassDeclaration</u> )* <EOF>
        MinClass ::= "class" Identifier "{" "public" "static" "void"
                     "main" "(" "String" "[" "]" Identifier ")"
                     "{" Statement "}" "}"
 ClassDeclaration ::= "class" Identifier ( "extends" Identifier )? "{"
                     (VarDeclaration)* (MethodDeclaration)* "}"
   VarDeclaration ::= <u>Type</u> <u>Identifier</u> ";"
MethodDeclaration::= "public" Type Identifier "(" ( Type Identifier (
                     "," Type Identifier )* )? ")" "{" ( VarDeclaration )*
                     ( Statement )* "return" Expression ";" "}"
             Type ::= "int" "[" "]"
                   | "bool ean"
                   "int"
                   Identifier
        Statement ::= "{" ( Statement )* "}"
                   | "if" "(" Expression ")" Statement "else" Statement
                   | "while" "(" Expression ")" Statement
                   "System out. println" "(" Expression ")" ";"
                   | Identifier "=" Expression ";"
                   | Identifier "[" Expression "]" "=" Expression ";"
       Expression ::= Expression ( "&&" | "<" | "+" | "-" | "*"
                     ) Expression
                   Expression "[" Expression "]"
                   Expression "." "length"
                   Expression "." Identifier "(" (Expression (
                     "," Expression )* )? ")"
                   <INTEGER_LITERAL>
                   | "true"
                   | "false"
                   Identifier
                   | "this"
                   | "new" "int" "[" Expression "]"
                   | "new' Identifier "(" ")"
                   | "!" Expression
                   | "(" Expression ")"
```

Identifier :: = <IDENTIFIER>

