```
Goal ::= MainClass ( ClassDeclaration )* <EOF>
MainClass ::= "class" Identifier "{" "public" "static" "void" "main" "("
"String" "[" "]" <u>Identifier</u> ")" "{" <u>Statement</u> "}" "}"
ClassDeclaration ::= "class" Identifier ( "extends" Identifier )? "{" (
VarDeclaration )* ( MethodDeclaration )* "}"
VarDeclaration ::= Type Identifier ";"
MethodDeclaration ::= ("public" | "private") Type Identifier "(" ( Type
<u>Identifier</u> ( "," <u>Type Identifier</u> )*
)? ")" "{" ( VarDeclaration )* ( Statement )* "return" Expression ";" "}"
Type ::= "boolean" bracket
| "int" bracket
| "float" <u>bracket</u>
| "String" <u>bracket</u>
| "char" <u>bracket</u>
<u>bracket</u> ::= "[" "]" | lambda
Statement ::= "{" ( Statement )* "}"
| "if" "(" Expression ")" Statement IfRest
| "while" "(" <a href="Expression")" Statement</a>
| "System.out.println" "(" <a href="Expression")" ";"</a>
<u>Identifier Statement_Rest</u>
IfRest ::= "else" Statement
```