Goal ::= MainClass<EOF>

MainClass ::= "class" <Identifier> "{" "public" "static" "void" "main" "()" "{" <Statement> "}" "}"

<VarDeclaration> ::= <Type> <Identifier> ";"

<MethodDeclaration> ::= "public" <Type> <Identifier> "(" ( <Type> <Identifier> ( "," <Type> <Identifier> )\* )? ")" "{" ( <VarDeclaration> )\* ( <Statement> )\* "return" <Expression> ";" "}"

<Type> ::= “int”|”double”|”boolean”

<Statement> ::= "{" (<Statement>)\* "}"

| "if" "(" <Expression> ")" <Statement> "else" Statement

| "while" "(" <Expression> ")" <Statement>

| "print" "(" <Expression> ")" ";"

| <Identifier> "=" <Expression> ";"

<Expression> ::= <Expression> ( "&&" | "<" | "+" | "-" | "\*"|”>”|”<=”|”>=”|”!=”|”^” ) <Expression>

| <Expression> "." <Identifier> "(" ( <Expression> ( "," <Expression> )\* )? ")"

| <Figure>

| "true"

| "false"

| <Identifier>

| "!" <Expression>

| "(" <Expression> ")"

<Identifier> ::= <Word>{(<Word>|<Figure>)}

<Word> ::= “a”|”b”|”c”|”d”|”e”|”f"|”g”|”h”|”i”|”j”|”k”|”l”|”m”|”n”|”o”|”p”|”q”|”r”|”s”|”t”|”u”|”v”|”w”|”x”|”y”|”z”

<Figure> ::= “0”|”1”|”2”|”3”|”4”|”5”|”6”|”7”|”8”|”9”