

Note: we are here assuming `System.out.println` to be a keyword.

Program → `void main () '{' Declarations Statements '}'`
Declarations → `{ Declaration }*`
Declaration → `Type Identifier ;`
Type → `int | boolean`
Identifiers → `Identifier { , Identifier }*`
Statements → `{ Statement }*`
Statement → `; | Block | Assignment | IfStatement | WhileStatement | PrintStatement`
Block → `'{ Statements '}'`
Assignment → `Identifier = Expression ;`
IfStatement → `if (Expression) Statement { else Statement }opt`
WhileStatement → `while (Expression) Statement`
PrintStatement → `System.out.println (Expression) ;`
Expression → `Conjunction { || Conjunction }*`
Conjunction → `Relation { && Relation }*`
Relation → `Addition { [| < | <= | > | >= | == | !=] Addition }opt`
Addition → `Term { [+ | -] Term }*`
Term → `Negation [* | /] Negation`
Negation → `{ ! }opt Factor`
Factor → `Identifier | Literal | (Expression)`