```
TERMINALS: All words, letters, numbers and symbols as +, -, "...
NON TERMINALS: All words between "<>".
<class_declaration> ::= 'public' 'class' <class_name> '{' <class_body> '}'
<class_body> ::= <variable_declaration>* <method_declaration>*
<method_declaration> ::= ?<modifier>? <return_type> <method_name> '('
<parameter list>? ')' '{' <variable declaration>* <statement>* '}'
<parameter_list> ::= <parameter> (',' <parameter>)*
<parameter> ::= <data type> <variable name>
<variable_declaration> ::= <modifier>? <data_type> (<identifier> (',' <identifier>)* ';' |
<assignment statement> | <identifier> '=' <expression> (',' <identifier> '=' <expression>) ';')
<modifier> ::= 'public' | 'private'
<class name> ::= [A-Z] [a-zA-Z0-9 ]*
<id><identifier> ::= [a-zA-Z_] [a-zA-Z0-9_]*
<data type> ::= 'int' | 'char' | 'double' | 'boolean' | 'String'
<statement> ::= <assignment_statement>
        | <loop statement>
        | <control statement>
        | <print_statement>
        | <return statement>
        | <bre> | <bre>tement>
        | <comment>
<assignment_statement> ::= <identifier> '=' <expression> ';'
<expression> ::= ! = | <method call> | <object creation> |
<compound expression>
= <number> | <char_literal> | <string_literal> | <boolean_literal>
<number> ::= 0 | ('+'|'-')?[1-9][0-9]* | ('+'|'-')?[1-9][0-9]*'.'[1-9][0-9]*'d'
<char literal> ::= ('\')?[a-zA-Z0-9 ]
<string_literal> ::= ""[a-zA-Z0-9_]*""
<boolean_literal> ::= 'true' | 'false'
<compound_expression> ::= <expression> ('+' | '-' | '*' | '/') <expression>
<object_creation> ::= 'new' <class_name> '()'
<method_call> ::= <object_name> '.' <method_name> '(' <argument_list>? ')'
<argument_list> ::= <expression> (',' <expression>)*
```