IC Grammar

```
program ::= classDecl^*
 classDecl ::= class CLASS [extends CLASS] '{' (field | method)* '}'
     field ::= type ID (',' ID)* ';'
  method ::= { statis} (type | void) ID '(' [formals]')' '{' stmt*'}'
  formals ::= type ID (',' type ID)*
     type ::= int | type | string | CLASS | type [' ']'
     stmt ::= location '=' expr ';'
            | call ';'
              return [expr] ';'
             if '(' expr')' stmt | loo stmt
              while '(' expr')' stmt
               '{' stmt* '}'
               type ID ['=' expr] ';'
     expr ::= location
               call
               new CLASS '(' ')'
               new type '[' expr']'
                upp / / longth
               expr binop expr
               literal
               '(' expr ')'
virtualCall ::= [expr'.'] ID '(' [expr (', 'expr)*] ')'
  location ::= ID | expr'.' ID | expr'['expr']'
    binop ::= '+' | '-' | '*' | '/' | <del>''' | '0.0</del>
```