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Program -> declaration_statement';' | declaration_statement';' statement_list';'

statement_list -> statement | statement ';' statement_list

statement -> read_statement | write_statement | assignment_statement | for_loop

declaration_statement -> 'int' variable_list

variable_list -> variable | variable ',' variable_list

read_statement -> 'read' variable

write_statement -> 'write' variable

assignment_statement -> variable '=' expression

expression -> Term1 '>' expression | Term1 '==' expression | Term1

Term1 -> Term2 '+' Term1 | Term2 '-' Term1 | Term2

Term2 -> factor '*' Term2 | factor '/' Term2 | factor

factor -> variable | integer_constant | '(' expression ')'

for_loop -> 'for' '(' assignment_statement ';' expression ';' assignment_statement ')' '{' statement_list '};' | 'for' (' assignment_statement ';' expression '; ' expression ')' '{' statement_list '};'

variable -> alphabetic_character | alphabetic_character variable

alphabetic_character -> a | b | c | ... | z

digit -> 0 | 1 | ... | 9

integer_constant -> digit | digit integer_constant