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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