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```
program → MAIN LPAREN RPAREN LCURLY list RCURLY
pogram.trans = list.trans
list → list oneItem
     epsilon
list.trans = list2.trans U {}
oneItem → decl
        stmt
oneItem.trans = decl.trans U stmt.trans
decl → BOOL ID SEMICOLON
     | INT ID SEMICOLON
decl.trans = {}
stmt → ID ASSIGN exp SEMICOLON
     | IF LPAREN exp RPAREN stmt
     | WHILE LPAREN exp RPAREN stmt
     | LCURLY list RCURLY
stmt.trans = list.trans U exp.trans U stmt.trans
exp → exp TIMES exp
    exp DIVIDE exp
    exp PLUS exp
    exp LESS exp
    | exp EQUALS exp
    | LPAREN exp RPAREN
    | ID
    | BOOLLITERAL
    | INTLITERAL
exp.trans = exp2.trans U INTLITERAL
```