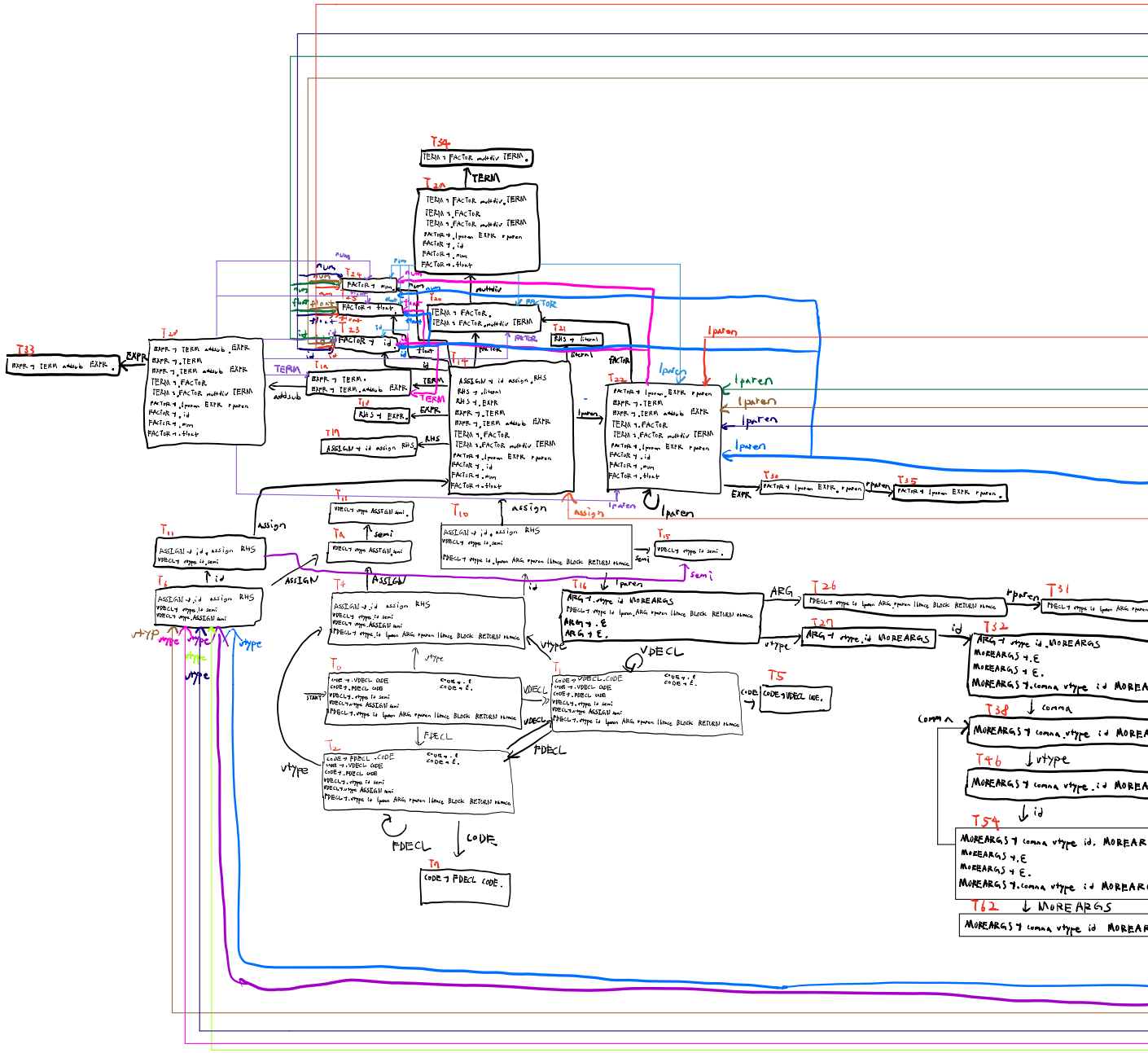
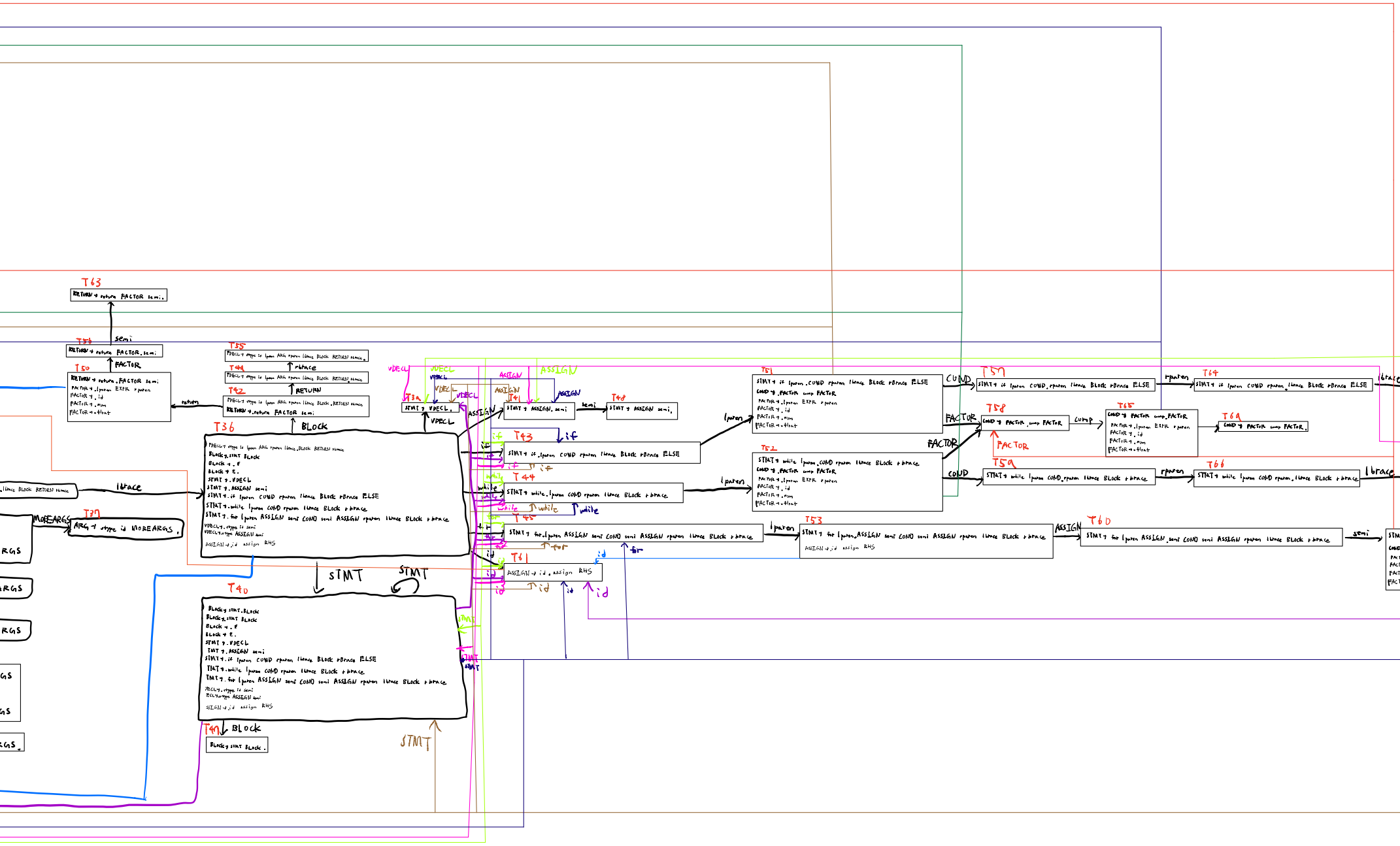
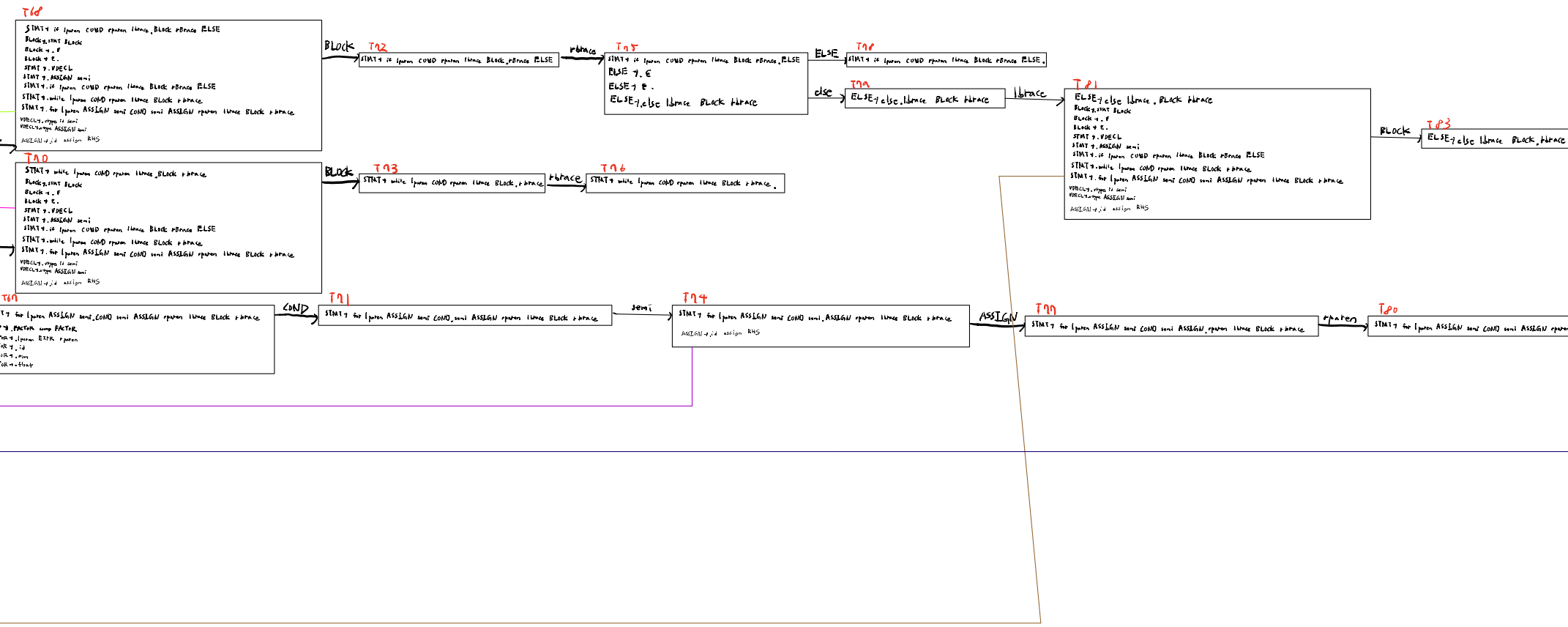
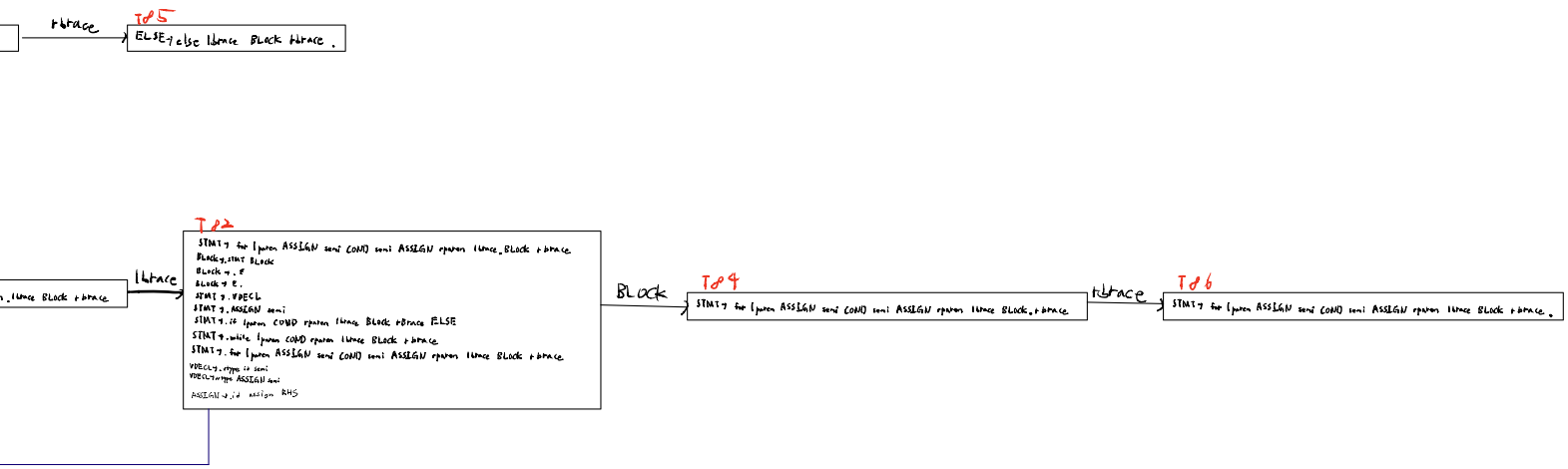

T34
TERM → FACTOR multdiv TERM.
T30
TERM → FACTOR multdiv.TERM
TERM → .FACTOR
TERM → .FACTOR multdiv TERM
FACTOR → .lparen EXPR rparen
FACTOR → .id
FACTOR → .num
FACTOR → .float
T29
FACTOR → num.
T28
FACTOR → float.
T23
FACTOR → id.
T20
TERM → FACTOR.
TERM → FACTOR.multdiv TERM
T21
RHS → literal
T33
EXPR → TERM addsub EXPR.
T32
EXPR → TERM addsub.EXPR
EXPR → .TERM
EXPR → .TERM addsub EXPR
TERM → .FACTOR
TERM → .FACTOR multdiv TERM
FACTOR → .lparen EXPR rparen
FACTOR → .id
FACTOR → .num
FACTOR → .float
T14
EXPR → TERM.
EXPR → TERM.addsub EXPR
T17
RHS → EXPR.
T19
ASSIGN → id assign RHS
T7
ASSIGN → id assign.RHS
RHS → .literal
RHS → .EXPR
EXPR → .TERM
TERM → .FACTOR
TERM → .FACTOR multdiv TERM
FACTOR → .lparen EXPR rparen
FACTOR → .id
FACTOR → .num
FACTOR → .float
T22
FACTOR → lparen.EXPR rparen
EXPR → .TERM
TERM → .FACTOR
TERM → .FACTOR multdiv TERM
FACTOR → .lparen EXPR rparen
FACTOR → .id
FACTOR → .num
FACTOR → .float
T36
FACTOR → lparen EXPR.rparen
T35
FACTOR → lparen EXPR rparen.
T13
VDECL → type ASSIGN semi.
T8
VDECL → type ASSIGN.semi
T10
ASSIGN → id assign.RHS
VDECL → type id.semi
VDECL → type id.lparen ARG rparen lbrace Block RETURN rbrace
T15
VDECL → type id semi.
T11
ASSIGN → id assign RHS
VDECL → type id.semi
T6
ASSIGN → id assign RHS
VDECL → type id semi
VDECL → type.ASSIGN semi
T4
ASSIGN → id assign RHS
VDECL → type id semi
VDECL → type.ASSIGN semi
VDECL → type id lparen ARG rparen lbrace Block RETURN rbrace
T16
VDECL → type id.lparen ARG rparen lbrace Block RETURN rbrace
ARG → .type id MOREARGS
ARG → .E
ARG → E.
T26
VDECL → type id lparen.ARG rparen lbrace Block RETURN rbrace
T31
VDECL → type id lparen ARG rparen
T27
ARG → type.id MOREARGS
T32
ARG → type id.MOREARGS
MOREARGS → .E
MOREARGS → E.
MOREARGS → .comma type id MOREA
T38
MOREARGS → comma.type id MOREA
T46
MOREARGS → comma type.id MOREA
T54
MOREARGS → comma type id. MOREAR
MOREARGS → .E
MOREARGS → E.
MOREARGS → .comma type id MOREAR
T62
MOREARGS → comma type id MOREAR
T0
CODE → .VDECL CODE
CODE → .MDECL CODE
VDECL → .type id semi
VDECL → type.ASSIGN semi
FDECL → .type id lparen ARG rparen lbrace Block RETURN rbrace
CODE → .E
CODE → E.
START
T1
CODE → VDECL.CODE
CODE → .VDECL CODE
VDECL → .type id semi
VDECL → type.ASSIGN semi
FDECL → .type id lparen ARG rparen lbrace Block RETURN rbrace
CODE → .E
CODE → E.
T5
CODE → VDECL CODE.
T2
CODE → FDECL.CODE
CODE → .VDECL CODE
CODE → .MDECL CODE
VDECL → .type id semi
VDECL → type.ASSIGN semi
FDECL → .type id lparen ARG rparen lbrace Block RETURN rbrace
CODE → .E
CODE → E.
T9
CODE → FDECL CODE.
EXPR
TERM
addsub
RHS
ASSIGN
assign
id
semi
vtype
type
VDECL
FDECL
CODE
ARG
lparen
rparen
comma
MOREARGS
FACTOR
multdiv
literal
num
float


T63
RETURN → return FACTOR semi.
T62
RETURN → return FACTOR semi.
T50
RETURN → return FACTOR semi
FACTOR → lparen EXPR rparen
FACTOR → id
FACTOR → num
FACTOR → float
T55
TYPE-L → type id lparen ARG rparen lbrace BLOCK RETURN rbrace.
T54
TYPE-L → type id lparen ARG rparen lbrace BLOCK RETURN rbrace
T52
TYPE-L → type id lparen ARG rparen lbrace BLOCK RETURN rbrace
RETURN → return FACTOR semi
T36
TYPE-L → type id lparen ARG rparen lbrace BLOCK RETURN rbrace
BLOCK → STMT BLOCK
BLOCK → E.
STMT → VDECL
STMT → ASSIGN semi
STMT → if lparen COND rparen lbrace BLOCK rbrace ELSE
STMT → while lparen COND rparen lbrace BLOCK rbrace
STMT → for lparen ASSIGN semi COND semi ASSIGN rparen lbrace BLOCK rbrace
VDECL → type id semi
VDECL → type ASSIGN semi
ASSIGN → id assign RHS
T37
ARG → type id MOREARGS.
T40
BLOCK → STMT BLOCK
BLOCK → STMT BLOCK
BLOCK → E.
STMT → VDECL
STMT → ASSIGN semi
STMT → if lparen COND rparen lbrace BLOCK rbrace ELSE
STMT → while lparen COND rparen lbrace BLOCK rbrace
STMT → for lparen ASSIGN semi COND semi ASSIGN rparen lbrace BLOCK rbrace
VDECL → type id semi
VDECL → type ASSIGN semi
ASSIGN → id assign RHS
T49
BLOCK → STMT BLOCK.
T33
STMT → VDECL.
T41
STMT → ASSIGN semi
T48
STMT → ASSIGN semi.
T43
STMT → if lparen COND rparen lbrace BLOCK rbrace ELSE
T44
STMT → while lparen COND rparen lbrace BLOCK rbrace
T45
STMT → for lparen ASSIGN semi COND semi ASSIGN rparen lbrace BLOCK rbrace
T61
ASSIGN → id assign RHS
T51
STMT → if lparen COND rparen lbrace BLOCK rbrace ELSE
COND → FACTOR comp FACTOR
FACTOR → lparen EXPR rparen
FACTOR → id
FACTOR → num
FACTOR → float
T52
STMT → while lparen COND rparen lbrace BLOCK rbrace
COND → FACTOR comp FACTOR
FACTOR → lparen EXPR rparen
FACTOR → id
FACTOR → num
FACTOR → float
T53
STMT → for lparen ASSIGN semi COND semi ASSIGN rparen lbrace BLOCK rbrace
ASSIGN → id assign RHS
T57
STMT → if lparen COND rparen lbrace BLOCK rbrace ELSE
T64
STMT → if lparen COND rparen lbrace BLOCK rbrace ELSE
T58
COND → FACTOR comp FACTOR
T65
COND → FACTOR comp FACTOR
FACTOR → lparen EXPR rparen
FACTOR → id
FACTOR → num
FACTOR → float
T69
COND → FACTOR comp FACTOR.
T59
STMT → while lparen COND rparen lbrace BLOCK rbrace
T66
STMT → while lparen COND rparen lbrace BLOCK rbrace
T60
STMT → for lparen ASSIGN semi COND semi ASSIGN rparen lbrace BLOCK rbrace
semi
lbrace
MOREARGS
RGS
RGS
RGS
GS
GS
GS.
STMT
BLOCK
VDECL
ASSIGN
if
while
for
id
lparen
rparen
COND
FACTOR
comp
assign
RHS
semi
return
E
lbrace
rbrace
ELSE


T68
STMT → if lparen COND rparen lbrace Block rbrace ELSE
Block → STMT Block
Block → . E
Block → E .
STMT → VDECL
STMT → ASSIGN semi
STMT → if lparen COND rparen lbrace Block rbrace ELSE
STMT → while lparen COND rparen lbrace Block rbrace
STMT → for lparen ASSIGN semi COND semi ASSIGN rparen lbrace Block rbrace
VDECL → type id semi
VDECL → type ASSIGN semi
ASSIGN → id assign RHS
BLOCK
T72
STMT → if lparen COND rparen lbrace Block rbrace ELSE
rbrace
T75
STMT → if lparen COND rparen lbrace Block rbrace ELSE
ELSE → E .
ELSE → else lbrace Block rbrace
ELSE
T78
STMT → if lparen COND rparen lbrace Block rbrace ELSE .
else
T79
ELSE → else lbrace Block rbrace
lbrace
T81
ELSE → else lbrace . Block rbrace
Block → STMT Block
Block → . E
Block → E .
STMT → VDECL
STMT → ASSIGN semi
STMT → if lparen COND rparen lbrace Block rbrace ELSE
STMT → while lparen COND rparen lbrace Block rbrace
STMT → for lparen ASSIGN semi COND semi ASSIGN rparen lbrace Block rbrace
VDECL → type id semi
VDECL → type ASSIGN semi
ASSIGN → id assign RHS
BLOCK
T83
ELSE → else lbrace Block . rbrace
T70
STMT → while lparen COND rparen lbrace Block rbrace
Block → STMT Block
Block → . E
Block → E .
STMT → VDECL
STMT → ASSIGN semi
STMT → if lparen COND rparen lbrace Block rbrace ELSE
STMT → while lparen COND rparen lbrace Block rbrace
STMT → for lparen ASSIGN semi COND semi ASSIGN rparen lbrace Block rbrace
VDECL → type id semi
VDECL → type ASSIGN semi
ASSIGN → id assign RHS
BLOCK
T73
STMT → while lparen COND rparen lbrace Block . rbrace
rbrace
T76
STMT → while lparen COND rparen lbrace Block rbrace .
T69
STMT → for lparen ASSIGN semi COND semi ASSIGN rparen lbrace Block rbrace
→ FACTOR comp FACTOR
→ lparen EXPR rparen
→ id
→ num
→ float
COND
T71
STMT → for lparen ASSIGN semi COND . semi ASSIGN rparen lbrace Block rbrace
semi
T74
STMT → for lparen ASSIGN semi COND semi . ASSIGN rparen lbrace Block rbrace
ASSIGN → id assign RHS
ASSIGN
T77
STMT → for lparen ASSIGN semi COND semi ASSIGN . rparen lbrace Block rbrace
rparen
T80
STMT → for lparen ASSIGN semi COND semi ASSIGN rparen


rbrace
T05
ELSE → else lbrace Block rbrace .
lbrace
T02
STMT → for lparen ASSIGN semi COND semi ASSIGN rparen lbrace Block rbrace
Block → STMT Block
Block → ε
Block → ε .
STMT → VDECL
STMT → ASSIGN semi
STMT → if lparen COND rparen lbrace Block rbrace ELSE
STMT → while lparen COND rparen lbrace Block rbrace
STMT → for lparen ASSIGN semi COND semi ASSIGN rparen lbrace Block rbrace
VDECL → type id semi
VDECL → type ASSIGN semi
ASSIGN → id assign RHS
Block
T04
STMT → for lparen ASSIGN semi COND semi ASSIGN rparen lbrace Block rbrace
rbrace
T06
STMT → for lparen ASSIGN semi COND semi ASSIGN rparen lbrace Block rbrace .